1R-123

Plains
Monument 17

Annual Report
2013

PLAINS
ALL AMERICAN

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2014 APR -3 A 9:40

March 18, 2014

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

Re: Plains All American – 2012 Annual Monitoring Reports
1 Site in Lea County, New Mexico

Dear Mr. Griswold:

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:

Monument 17 1R-123 Section 29, Township 19 South, Range 37 East, Lea County

Please note the 2013 Annual Monitoring Report for the subject site includes a request for site closure. On NMOCD closure approval, the site will be revegatated with the landowner approved seed mixture.

Nova Safety and Environmental (Nova) 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 Nova 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,

Camille Bryant
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures

2013
ANNUAL MONITORING REPORT
AND SITE CLOSURE REQUEST

MONUMENT 17

SE ¼ NW ¼ of SECTION 29, TOWNSHIP 19 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: TNM MONUMENT-17-KNOWN
NMOCD REFERENCE: 1R-123

Prepared For:

PLAINS MARKETING, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS 77002

NOVA safety and environmental

Prepared By:

NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

March 2014

Curt D. Stanley
Project Manager

Rebecca Hasbell for
Brittan K. Byerly, P.G.
President

TABLE OF CONTENTS

1.0 INTRODUCTION TO 2013 ANNUAL MONITORING REPORT 1

2.0 SITE DESCRIPTION AND BACKGROUND INFORMATION 1

3.0 FIELD ACTIVITIES 1

3.1 Product Recovery Efforts 1

3.2 Groundwater Monitoring 2

4.0 LABORATORY RESULTS 2

5.0 2013 GROUNDWATER SUMMARY 4

6.0 CONCLUSIONS AND GROUNDWATER CLOSURE REQUEST 4

7.0 NMOCD SITE CLASSIFICATION 5

8.0 LEAK ZONE INVESTIGATION SUMMARY 5

8.1 Review of Soil Data 5

8.2 Review of Site and Data by the New Mexico State Land Office 7

9.0 CONCLUSIONS AND SOIL CLOSURE REQUEST 7

10.0 SITE CLOSURE REQUEST 8

11.0 LIMITATIONS 8

12.0 DISTRIBUTION 9

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3A – Inferred Groundwater Gradient Map – February 5, 2013
3B – Inferred Groundwater Gradient Map – May 23, 2013
3C – Inferred Groundwater Gradient Map – August 13, 2013
3D – Inferred Groundwater Gradient Map – November 13, 2013

Figure 4A – Groundwater Concentration and Inferred PSH Extent Map – February 5, 2013
4B – Groundwater Concentration and Inferred PSH Extent Map – May 23, 2013
4C – Groundwater Concentration and Inferred PSH Extent Map – August 13, 2013
4D – Groundwater Concentrations and Inferred PSH Extent Map – November 13, 2013

Figure 5 – TPH Concentrations in Soil – 1997–1998

Figure 6 – TPH Concentrations in Soil – 2004-2007

TABLES

Table 1 – 2013 Groundwater Elevation Data
Table 2 – 2013 Concentrations of BTEX and TPH in Groundwater
Table 3 – 2013 Concentrations of PAH in Groundwater
Table 4 – Concentrations of TPH and BTEX in Soil

APPENDICES

Appendix A – Release Notification and Corrective Action (Form C-141)

ENCLOSED ON DATA DISK

2013 Annual Monitoring Report
2013 Tables 1, 2 and 3 – Groundwater Elevation and BTEX Concentration Data
2013 Figures 1, 2A-2D, and 3A-3D
Electronic Copies of Laboratory Reports
Historic Table 1, 2 and 3 – Groundwater Elevation, BTEX and PAH Concentration Tables

1.0 INTRODUCTION TO 2013 ANNUAL MONITORING REPORT

On behalf of Plains Marketing, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this 2013 Annual Monitoring Report and Site Closure Request in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on May 29, 2004, project management responsibilities for the Monument 17 Site (the site) were assumed by NOVA. The site, which was formerly the responsibility of Enron Oil Trading and Transportation (EOTT), is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2013 only. Historic data tables as well as 2013 laboratory analytical reports are provided on the enclosed disk. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2013 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled.

As of the 4th quarter of 2013, Plains has demonstrated a minimum of eight consecutive quarters of groundwater sampling data below NMOCD regulatory guidelines, with the exception of one deviation which occurred in monitor well MW-2 during the 3rd quarter of 2012. The benzene concentration for monitor well MW-2 was 0.0126 mg/L during the 3rd quarter 2012 sampling event. Plains is requesting a NMOCD approved closure for the Monument 17 Release Site in this report.

2.0 SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the site location is SE ¼ of the NW ¼ of Section 29, Township 19 South, Range 37 East. No information with respect to the release date, volume of crude oil released or recovered, excavation volumes, or pipeline repair is currently available as the release occurred while the pipeline was operated by Texas New Mexico Pipe Line Company (TNM). The Release Notification and Corrective Action Form (C-141) is provided as Appendix B. The initial site investigation, consisting of the installation of eight groundwater monitor wells (MW-1 through MW-8), was performed by previous consultants.

Currently, there are eight groundwater monitor wells (MW-1 through MW-5 and MW-7 through MW-9) on site.

3.0 FIELD ACTIVITIES

3.1 Product Recovery Efforts

Based on gauging data collected during the 2013 reporting period, no monitor wells exhibited a measurable thickness of PSH during the reporting period.

3.2 Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004, June 21, 2005 and November 8, 2012.

NMOCD Approved Sampling Schedule					
MW-1	Quarterly	MW-4	Annually	MW-7	Semi-Annually
MW-2	Quarterly	MW-5	Annually	MW-8	Annually
MW-3	Quarterly	MW-6	Plugged and Abandoned	MW-9	Semi-Annually

The site monitor wells were gauged and sampled on the following dates: February 5, May 23, August 13, and November 13, 2013. During each sampling event, sampled monitor wells were purged of a minimum of three well volumes of water or until the wells failed to produce water using a PVC bailer or electric Grundfos pump. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four quarterly monitoring events, are depicted on Figures 3A through 3D, the Inferred Groundwater Gradient Map(s). Groundwater elevation data for 2013 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent inferred Groundwater Gradient Map, Figure 3D, indicates a general gradient of approximately 0.0013 feet/foot to the southeast as measured between groundwater monitor wells MW-5 and MW-9. This is consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3,587.04 and 3,588.03 feet above mean sea level, in monitor wells MW-9 on May 9, 2013 and MW-5 on August 13, 2013, respectively.

4.0 LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2013 were delivered to Trace Analysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis was not conducted at the site during the reporting period. Based upon historic PAH analytical data, only those wells exhibiting elevated constituent concentrations above WQCC guidelines are sampled, with the exclusion of those wells containing measurable PSH thicknesses. A listing of BTEX constituent concentrations for 2013 are summarized in Table 2 and the historic PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2013 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 4A through 4D.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guideline for each constituent during all four quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 3rd quarter of 2011 (nine (9) consecutive quarterly sampling events). PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 2nd and 3rd quarters to 0.00470 mg/L during the 4th quarter of the reporting period. Benzene concentrations were below NMOCD regulatory guidelines during all four quarters of the reporting period. Toluene, ethylbenzene and xylene concentrations were below the MDL and NMOCD regulatory guideline during all four quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 4th quarter of 2012 (five (5) consecutive quarterly sampling events). Since the 1st quarter of 2012 (eight quarters), only one quarterly sampling event (3rd quarter 2012) has exhibited a BTEX constituent (benzene concentration of 0.0126 mg/L) in excess of NMOCD regulatory guidelines. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 2nd, 3rd and 4th quarters to 0.0043 mg/L during the 1st quarter of the reporting period. Benzene concentrations were below the NMOCD regulatory guideline during all four quarters of 2013. Toluene, ethylbenzene and xylene concentrations were below the MDL and NMOCD regulatory guideline during all four quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 4th quarter of 2011 (eight (8) consecutive quarterly sampling events). PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-4 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the installation of the monitor well in the 3rd quarter of 1999 (nineteen (19) quarterly, sixteen (16) semi-annual and one (1) annual consecutive sampling events). PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-5 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guideline for each constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the installation of the monitor well in the 3rd quarter of 1999 (nineteen (19) quarterly and nine (9) annual consecutive sampling events). PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-7 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines during the 2nd and 4th quarters of the reporting period. The analytical results indicate BTEX constituent

concentrations have been below NMOCD regulatory guidelines since the 3rd quarter of 2005 (twenty-none (29) quarterly and two (2) semi-annual consecutive sampling events). PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-8 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines for each constituent during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the installation of the monitor well in the 3rd quarter of 1999 (nineteen (19) quarterly and nine (9) annual consecutive sampling events). PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-9 is sampled on a semi-annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines during the 2nd and 4th quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1st quarter of 2007 (twenty-four (24) quarterly and two (2) semi-annual consecutive sampling events). PAH analysis was not conducted during the 4th quarter sampling event.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater guidelines found in section 20.6.2.3103 of the New Mexico Administrative Code.

5.0 2013 GROUNDWATER SUMMARY

This report presents the results of four groundwater monitoring and sampling events for the annual monitoring period of calendar year 2013. Currently, there are eight groundwater monitor wells (MW-1 through MW-5 and MW-7 through MW-9) on-site. The most recent inferred groundwater gradient indicates a general gradient of approximately 0.0013 feet/foot to the southeast as measured between groundwater monitor wells MW-5 and MW-9. During the reporting period, no measurable thickness of PSH was detected in any of the site monitor wells.

A review of the laboratory analytical results indicate benzene, toluene, ethylbenzene and xylene concentrations were below NMOCD regulatory guidelines for all eight monitor wells during the 2013 reporting period.

6.0 CONCLUSIONS AND GROUNDWATER CLOSURE REQUEST

No information with respect to the release date, volume of crude oil released or recovered, excavation volumes, or pipeline repair is currently available as the release occurred while the pipeline was operated by Texas New Mexico Pipe Line Company (TNM).

As of the 4th quarter of 2013, Plains has demonstrated a minimum of eight consecutive quarters of groundwater sampling data below NMOCD regulatory guidelines, with the exception of one deviation, which occurred in monitor well MW-2 during the 3rd quarter of 2012. The benzene concentration for monitor well MW-2 was 0.0126 mg/L during the 3rd quarter 2012 sampling event.

Based on the groundwater analytical results for the eight on-site monitor wells, Plains is requesting a NMOCD approved groundwater closure for the Monument 17 Release Site. If approved by the NMOCD, Plains will cease groundwater monitoring and sampling activities. Plains will submit plugging permit applications to the New Mexico Office of The State Engineer (NMOSE). On receipt of the plugging permits, a licensed New Mexico Driller will plug the monitor wells in accordance with NMOSE regulations and standard practices.

7.0 NMOCD SITE CLASSIFICATION

The depth to groundwater at the site is less than 50 feet bgs. Based on the NMOCD soil classification system, 20 points would be assigned to the site as a result of this criterion.

The distance to the nearest water source is less than 1,000 feet, resulting in 20 points being assigned to the site on this ranking criterion. There is no surface water body located within 1,000 feet of the site, resulting in zero points being assigned on this ranking criterion. The NMOCD guidelines indicate the site has a Ranking Score of >19. The soil action levels for a site with a Ranking Score of >19 points are as follows:

- Benzene - 10 ppm
- BTEX - 50 ppm
- TPH - 100 ppm

8.0 LEAK ZONE INVESTIGATION

8.1 Review of Soil Data

An initial site investigation was conducted in March 1997 by previous contractors and consisted of the advancement and sampling of five soil borings (B17-1 through B17-5) utilizing a direct-push hydraulic sampling system. The soil borings were advanced to the point of refusal. In April 1997, the locations of soil borings B17-2 through B17-5 were further advanced to the apparent depth of groundwater using an air rotary drill rig. Following evaluation of the direct-push and air rotary drilling data, Soil Borings B-17-3, B17-4 and B17-5 were completed as monitor wells MW-1, MW-2 and MW-3, respectively. The total depth of the soil borings/monitor wells ranged from twenty-two (22) to thirty (30) feet below ground surface (bgs). Monitor wells MW-1 and MW-2 were installed down-gradient of the apparent release point and monitor well MW-3 was installed upgradient of the apparent release point. Please refer to Figure 2 for locations of monitor wells MW-1 through MW-3 and approximate locations of soil borings B17-1 and B17-2.

Analytical data collected from soil boring B17-1 indicated hydrocarbon impact exceeded NMOCD regulatory guidelines in soil samples collected at 1 to 2 feet bgs (2,620 mg/Kg (total petroleum hydrocarbon (TPH)) and 3 to 4 feet bgs (11,200 mg/Kg TPH). In addition, the soil sample collected at 3 to 4 feet bgs exhibited a benzene concentration of 13.10 mg/Kg and a total benzene, toluene, ethylbenzene and xylene (BTEX) concentration of 310.65 mg/Kg. Please reference Table 4, Concentrations of TPH and BTEX in Soil and Figure 5, TPH Concentrations in Soil – 1997 – 1998. Please note, TPH analysis was completed using EPA Method 418.1.

Analytical data collected from soil boring B17-2 indicated hydrocarbon impact exceeded NMOCD regulatory guidelines in soil samples collected at 1 to 2 feet bgs (267 mg/Kg TPH) and

3 to 4 feet bgs (2,310 mg/Kg TPH). In addition, the soil sample collected at 3 to 4 feet bgs exhibited a BTEX concentration of 67.93 mg/Kg.

Analytical data collected from soil boring B17-3 (MW-1) indicated hydrocarbon impact exceeded NMOCD regulatory guidelines in the soil sample collected at 5 feet bgs (4,430 mg/Kg TPH). In addition, the soil sample exhibited a BTEX concentration of 117.48 mg/Kg.

Analytical data collected from soil borings B17-4 (MW-2) and B17-5 (MW-3) indicated hydrocarbon impact exceeded NMOCD regulatory guidelines in the soil samples collected at 5 feet bgs (215 mg/Kg TPH and 725 mg/Kg TPH, respectively).

Based on the data collected from the initial soil borings and monitor wells, two (2) additional monitor wells (MW-4 and MW-5) were installed to a total depth of twenty-nine (29) feet bgs in January 1998. In July 1998, three (3) additional monitor wells (MW-6 through MW-8) were installed to a total depth of twenty-nine (29) to thirty-two (32) feet bgs. Analytical results indicated benzene, BTEX and TPH concentrations were below NMOCD regulatory guidelines in all of the submitted soil samples.

On November 4, 2004, monitor well MW-9 was installed down-gradient of monitor well MW-1. Analytical results of collected soil samples indicated benzene, BTEX and TPH concentrations were below NMOCD regulatory guidelines in each of the submitted soil samples. Please reference Table 4, Concentrations of TPH and BTEX in Soil and Figure 6, TPH Concentrations in Soil – 2004 - 2007.

Monitor well MW-6 was plugged and abandoned in September 2005 as approved by the NMOCD. A total of eight (8) monitor wells (MW-1 through MW-5 and MW-7 through MW-9 are currently on-site.

On August 18, 2007, five (5) confirmation soil borings (SB-1 (07) through SB-5 (07)) were advanced for the purpose of evaluating the BTEX and TPH concentrations in soil in and adjacent to the apparent source area. The soil borings were advanced to total depths ranging from twelve (12) to fifteen (15) feet bgs and were located in the vicinity of soil borings B17-1, B17-2, B17-3 (MW-1), B17-5 (MW-3) and monitor well MW-8. Please refer to Figure 2 for the approximate locations of soil borings SB-1 (07) through SB-5 (07).

Analytical results of soil samples collected from soil SB-1 (07), located in the vicinity of the April 1997 soil boring B17-5 (MW-3), indicated TPH concentrations were below the laboratory method detection limit (MDL) for the soil sample collected at fifteen (15) feet bgs, in comparison, to the 1997 soil boring B17-5 (MW-3) TPH concentration of 725 mg/Kg in the soil sample collected at five (5) feet bgs. During the advancement of soil boring SB-1 (07) no hydrocarbon staining or odor was detected in the submitted soil sample or cuttings.

Analytical results of soil samples collected from soil SB-2 (07), located in the vicinity of the April 1997 soil boring B17-2, indicated TPH concentrations ranged from below the MDL in the soil sample collected at fifteen (15) feet bgs to 439 mg/Kg in the soil sample collected at ten (10) feet bgs. In comparison, the 1997 soil boring B17-2 exhibited TPH concentrations ranging from 11.0 mg/Kg in the soil sample collected at twenty (20) feet bgs to 2,310 mg/Kg in the soil sample collected at five (5) to six (6) feet bgs.

Analytical results of soil samples collected from soil SB-3 (07), located in the vicinity of the April 1997 soil boring B17-3 (MW-1), indicated TPH concentrations were below the laboratory MDL in the soil sample collected at ten (10) feet bgs, as compared to the April 1997 soil boring B17-3 (MW-1) which exhibited TPH concentrations ranging from 11.5 mg/Kg in the soil sample collected at twenty (20) feet bgs to 4,430 mg/Kg in the soil sample collected at five (5) feet bgs. During the advancement of soil boring SB-3 (07) no hydrocarbon staining or odor was detected in the submitted soil sample or cuttings. The surface to approximately five (5) feet bgs contained topsoil, sand and caliche fragments which were white to brown in color and appeared to be backfill soil.

Analytical results of soil samples collected from soil SB-4 (07), located in the vicinity of the March 1997 soil boring B17-1, indicated TPH concentrations ranged from 780 mg/Kg in the soil sample collected at fifteen (15) feet bgs to 2,515 mg/Kg in the soil sample collected at ten (10) feet bgs, in comparison to the March 1997 soil boring B17-1 which exhibited a TPH concentration ranging from 45.5 mg/Kg in the soil sample collected at twenty-six (26) to twenty-seven (27) feet bgs to 11,200 mg/Kg in the soil sample collected at three (3) to four (4) feet bgs.

Analytical results of soil samples collected from soil SB-5 (07), located in the vicinity of the March 1997 soil boring B17-1, indicated TPH concentrations ranged from 586 mg/Kg in the soil sample collected at fifteen (15) feet bgs to 3,000 mg/Kg in the soil sample collected at ten (10) feet bgs, in comparison to the March 1997 soil boring B17-1 which exhibited a TPH concentration ranging from 45.5 mg/Kg in the soil sample collected at twenty-six (26) to twenty-seven (27) feet bgs to 11,200 mg/Kg in the soil sample collected at three (3) to four (4) feet bgs.

Based on the analytical data collected in 2007 from soil boring SB-4 (07), remaining hydrocarbon impact appears to be declining naturally. The TPH concentration decreased from 11,200 mg/Kg to 2,515 mg/Kg in approximately ten (10) years (1997 through 2007) and is demonstrably immobile.

8.2 Review of Site and Data by the New Mexico State Land Office

In 2012, a representative with Plains met with a representative of the New Mexico State Land Office (NMSLO) to discuss current site conditions and site data. The NMSLO representative agreed with the plan for closure and stated the NMSLO would not object to closure of the site if the NMOCD concurred with this request by Plains. The NMSLO did request the site be reseeded with BLM seed type #2 when Plains received a NMOCD approved site closure.

9.0 CONCLUSIONS AND SOIL CLOSURE REQUEST

The crude oil release known as TNM-Monument 17, to the best of knowledge, occurred in 1997 with an undetermined volume of crude oil release to the subsurface. Since 1997, approximately ten (10) soil boring have been advanced at the site, with three (3) of the soil borings converted to monitor wells. In addition, six (6) additional monitor wells were installed to delineate groundwater at the release site. In 2005, one (1) monitor well (MW-6) was plugged and abandoned with NMOCD approval.

Based on the soil analytical data from the 2007 soil confirmation activities, which confirms declining TPH and BTEX concentrations in the soils within the source area due to natural attenuation of the hydrocarbons. In addition, years of groundwater monitoring have demonstrated the benzene and BTEX concentrations in groundwater have been decreasing and are now below NMOCD guidelines, which indicates the hydrocarbons in the soil column above the groundwater table are not leaching into the groundwater. Plains respectfully requests the New Mexico Oil Conservation Division approve soil closure for the remediation activities at Monument 17 Release Site.

10.0 CONCLUSIONS AND SITE CLOSURE REQUEST

Review of the laboratory analytical results of groundwater samples collected from the on-site monitor wells beginning in 1997, indicates benzene and BTEX constituent concentrations have been below NMOCD regulatory guidelines for a minimum of eight (8) quarters, with the exception of the one deviation in monitor well MW-2.

The absence of groundwater impact associated with the hydrocarbons in the vadose zone indicates the hydrocarbons are immobile, naturally attenuating and no longer a threat to groundwater quality.

Based on groundwater and soil analytical data presented above, Plains respectfully requests the New Mexico Oil Conservation Division approve site closure for the remediation activities at Monument 17 Release Site.

11.0 LIMITATIONS

NOVA has prepared this Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

12.0 DISTRIBUTION

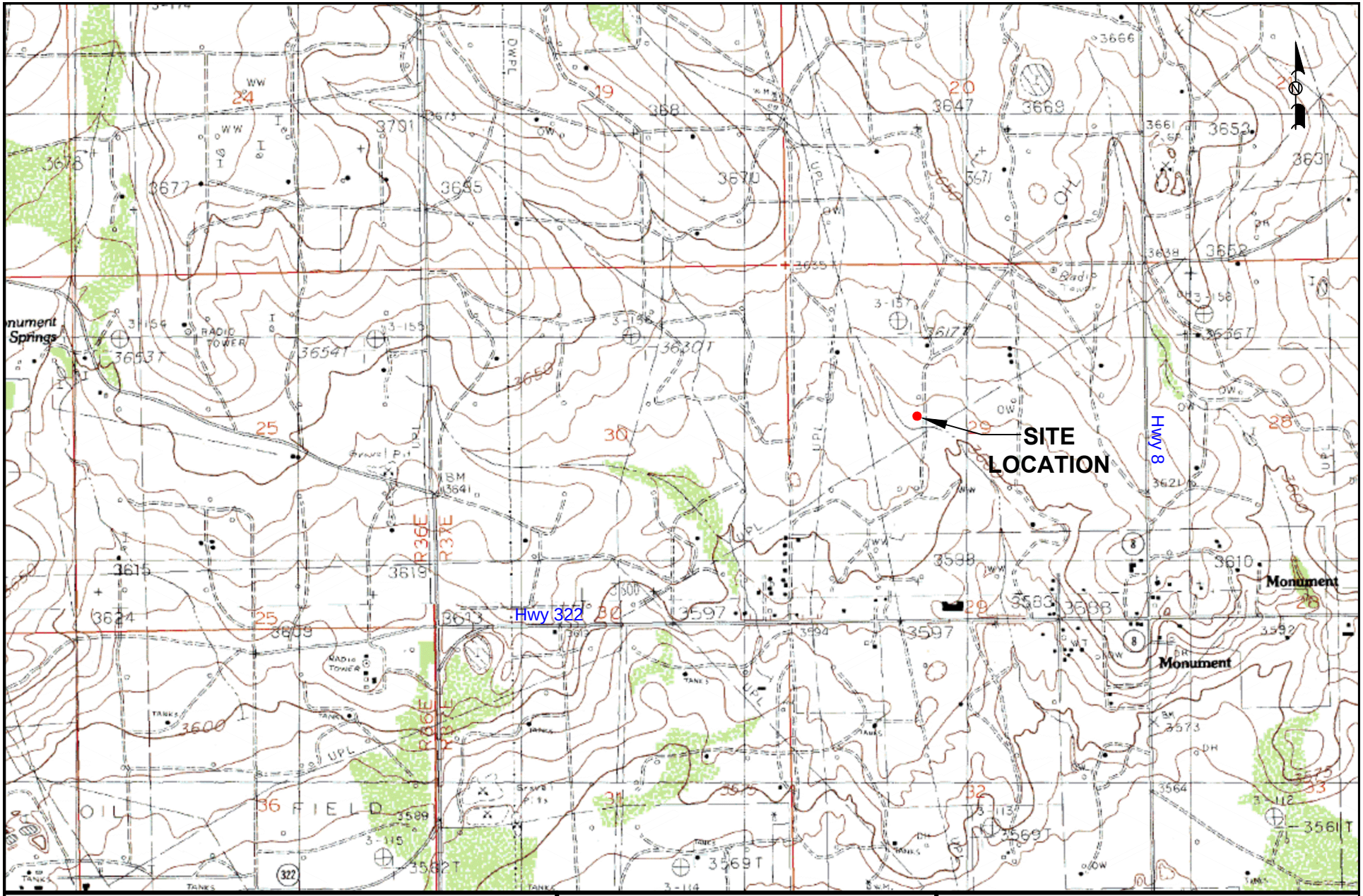
Copy 1 Jim Griswold
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Copy 2: Geoffrey R. Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
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jpdann@paalp.com

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2057 Commerce Street
Midland, TX 79703
cstanley@novatraining.cc



LEGEND:

2000 1000 0 1000 2000

Distance in Feet

NMOCD Reference #1R-123

Figure 1
Site Location Map
Monument 17
Plains Marketing, L.P.
Lea County, NM

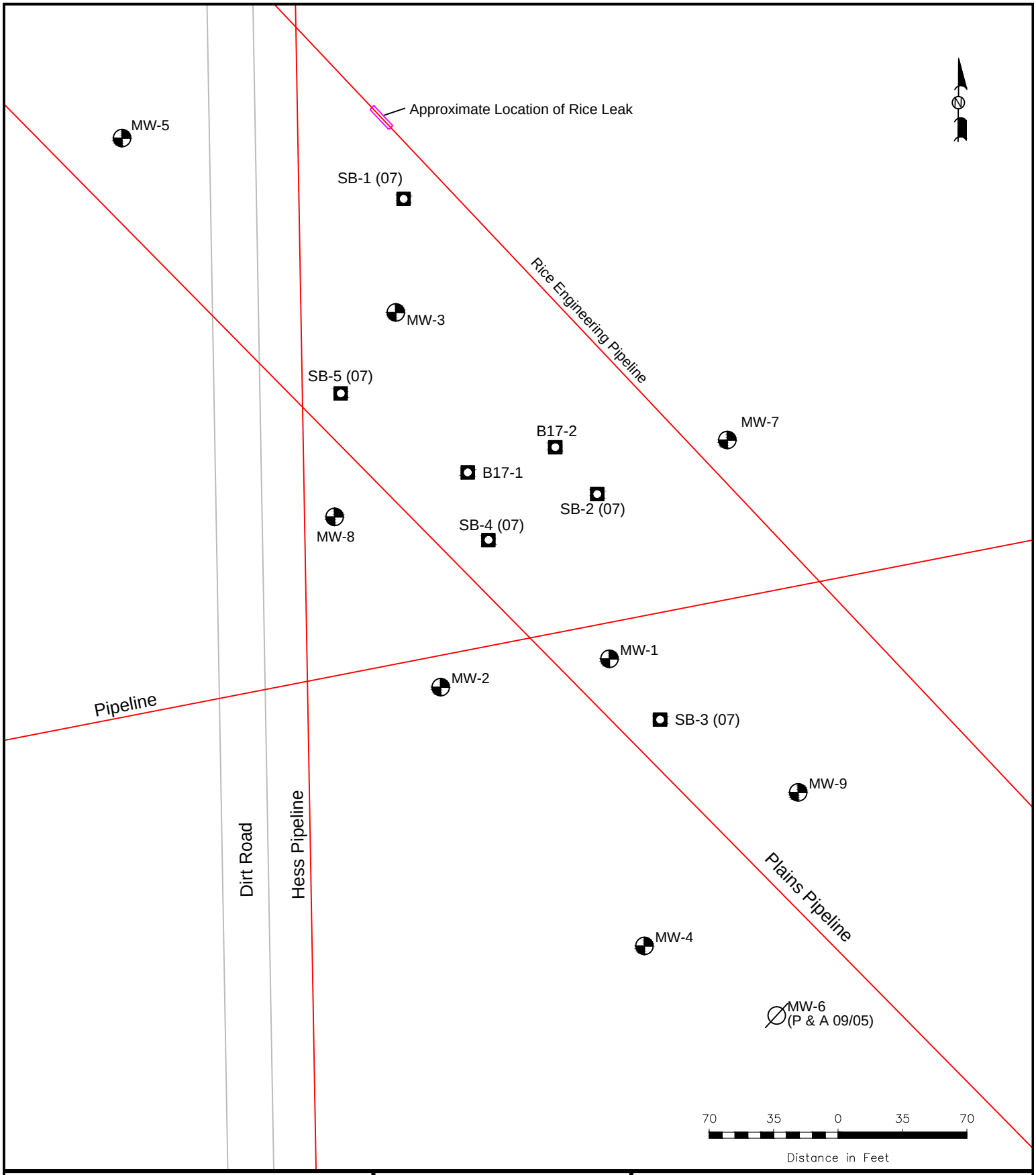
NOVA safety and environmental

2057 Commerce Drive
Midland, Texas 79703
432.520.7720

www.novasafetyandenvironmental.com

March 3, 2011	Scale: 1" = 2000'	CAD By: TA	Checked By: RKR

LATITUDE & LONGITUDE COORDINATES: N 32° 37' 59.34" W 103° 16' 33.78"



LEGEND:

- Monitor Well Location
- Soil Boring

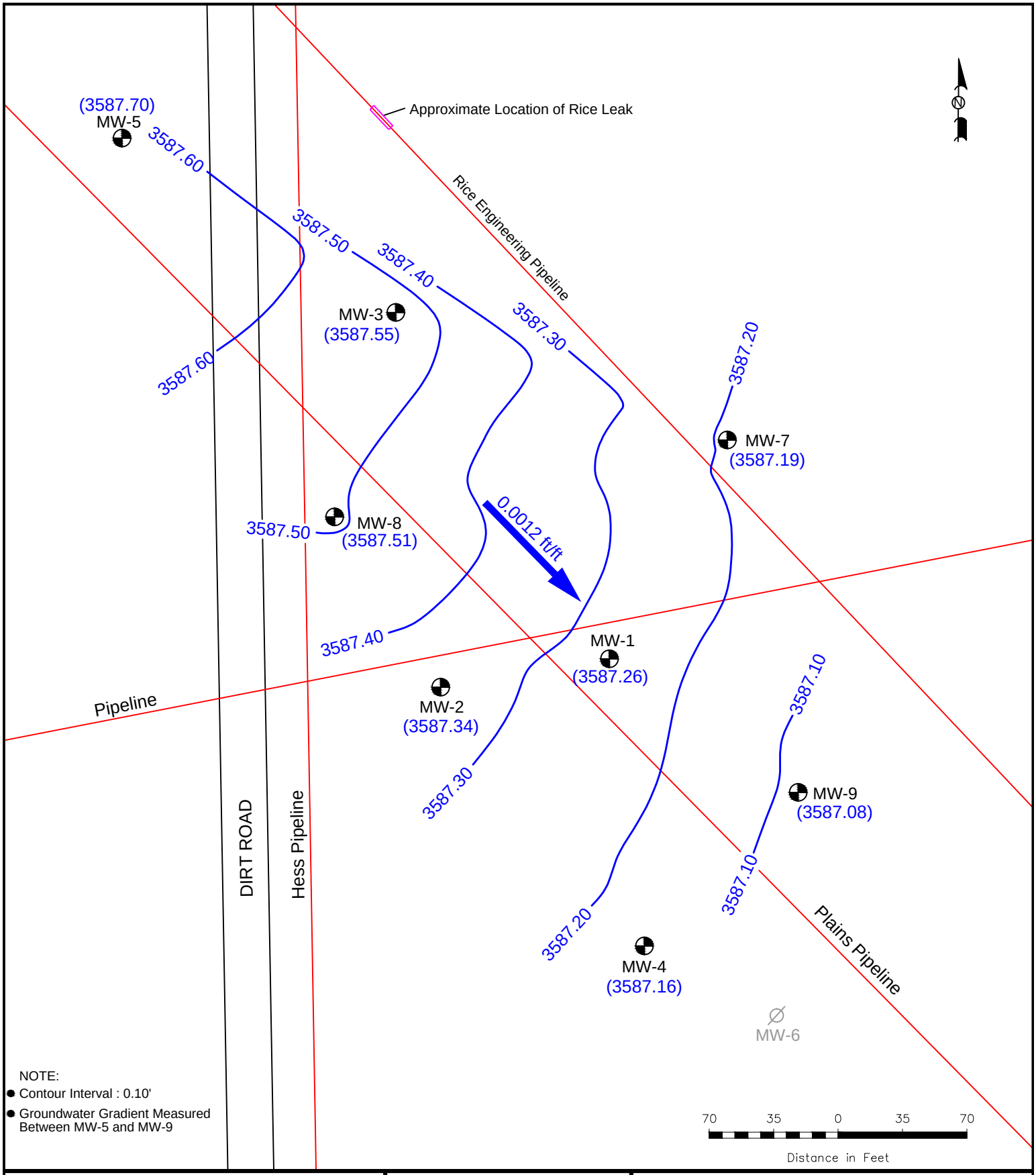
Figure 2

Site Map
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

March 24, 2014	Scale: 1" = 70'	CAD By: TA	Checked By: CS

Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6" | SE1/4 NW1/4 Sec 29 T19S R37E



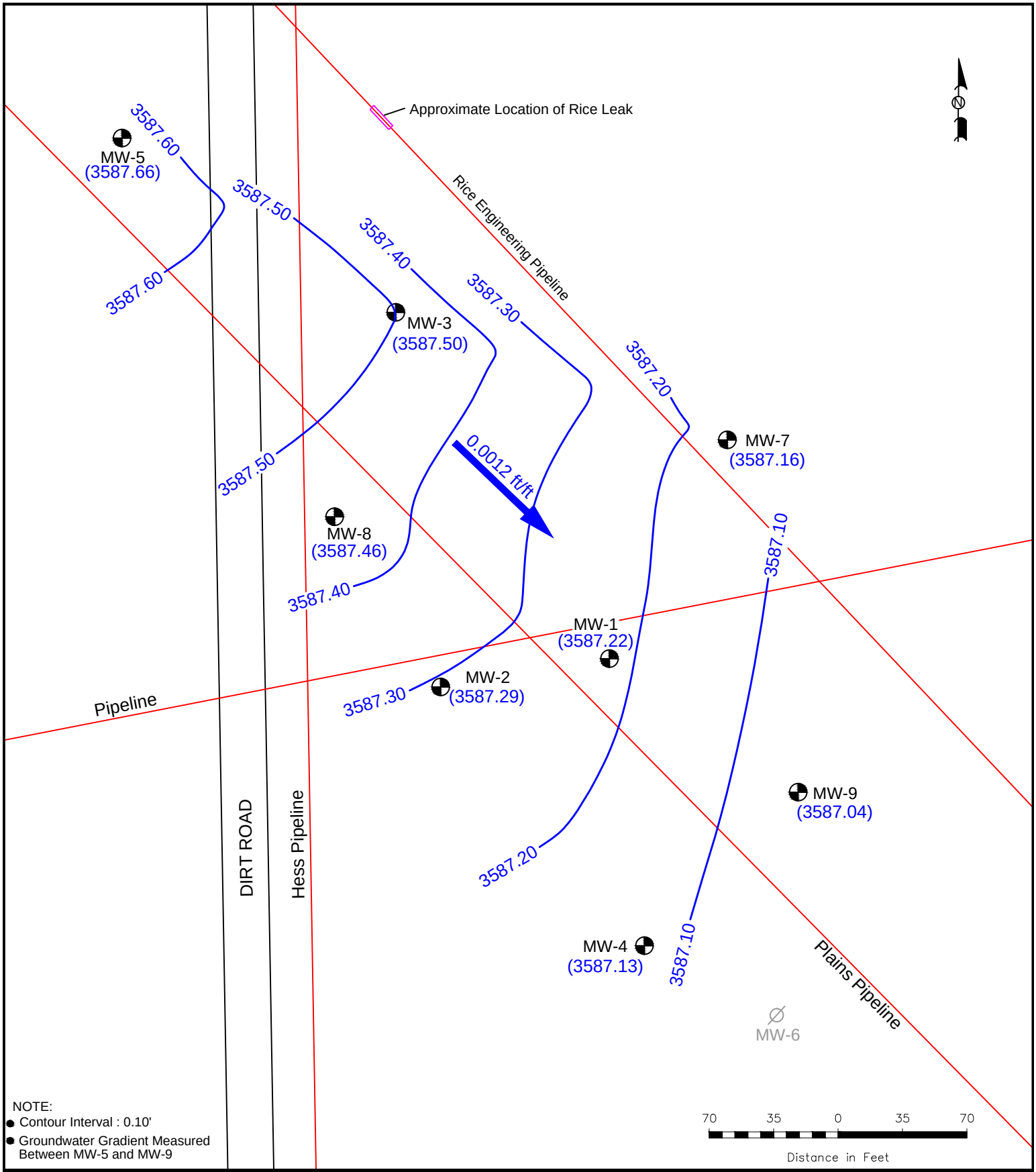
NOTE:
- Contour Interval : 0.10'
- Groundwater Gradient Measured Between MW-5 and MW-9

LEGEND:
- Monitor Well Location
- Plugged and Abandoned Well
- Ground Water Contour Lines
- (3587.54) Groundwater Elevation

Figure 3A
Inferred Groundwater Gradient Map
(2/5/2013)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

April 12, 2013	Scale: 1" = 70'	CAD By: CS	Checked By: RKR
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"	SE1/4 NW1/4 Sec 29 T19S R37E		



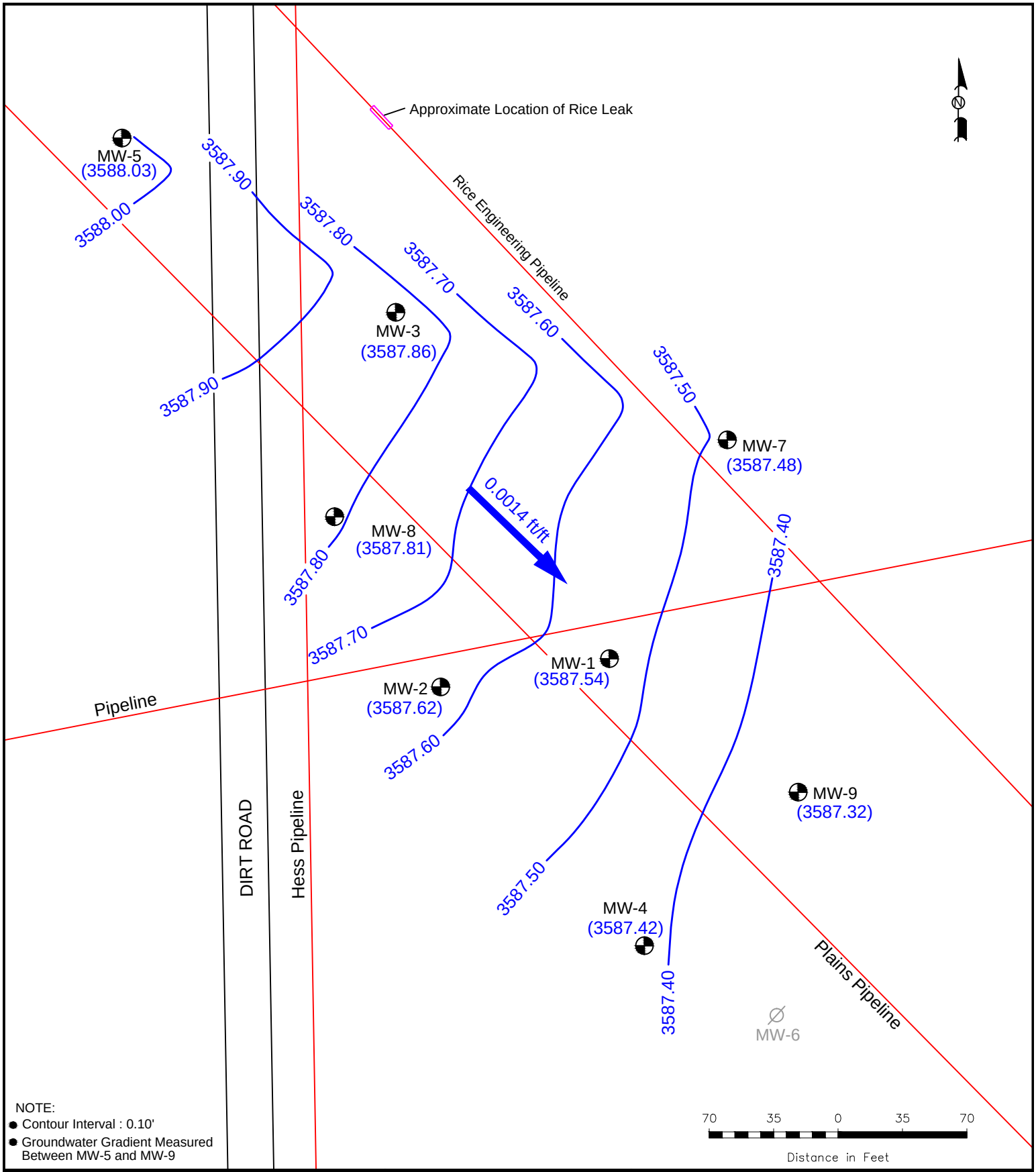
NOTE:
- Contour Interval : 0.10'
- Groundwater Gradient Measured Between MW-5 and MW-9

LEGEND:
- Monitor Well Location
- ∅ Plugged and Abandoned Well
- Ground Water Contour Lines
- (3587.54) Groundwater Elevation

Figure 3B
Inferred Groundwater Gradient Map
(5/23/2013)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

June 12, 2013	Scale: 1" = 70'	CAD By: CS	Checked By: RKR
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"	SE1/4 NW1/4 Sec 29 T19S R37E		



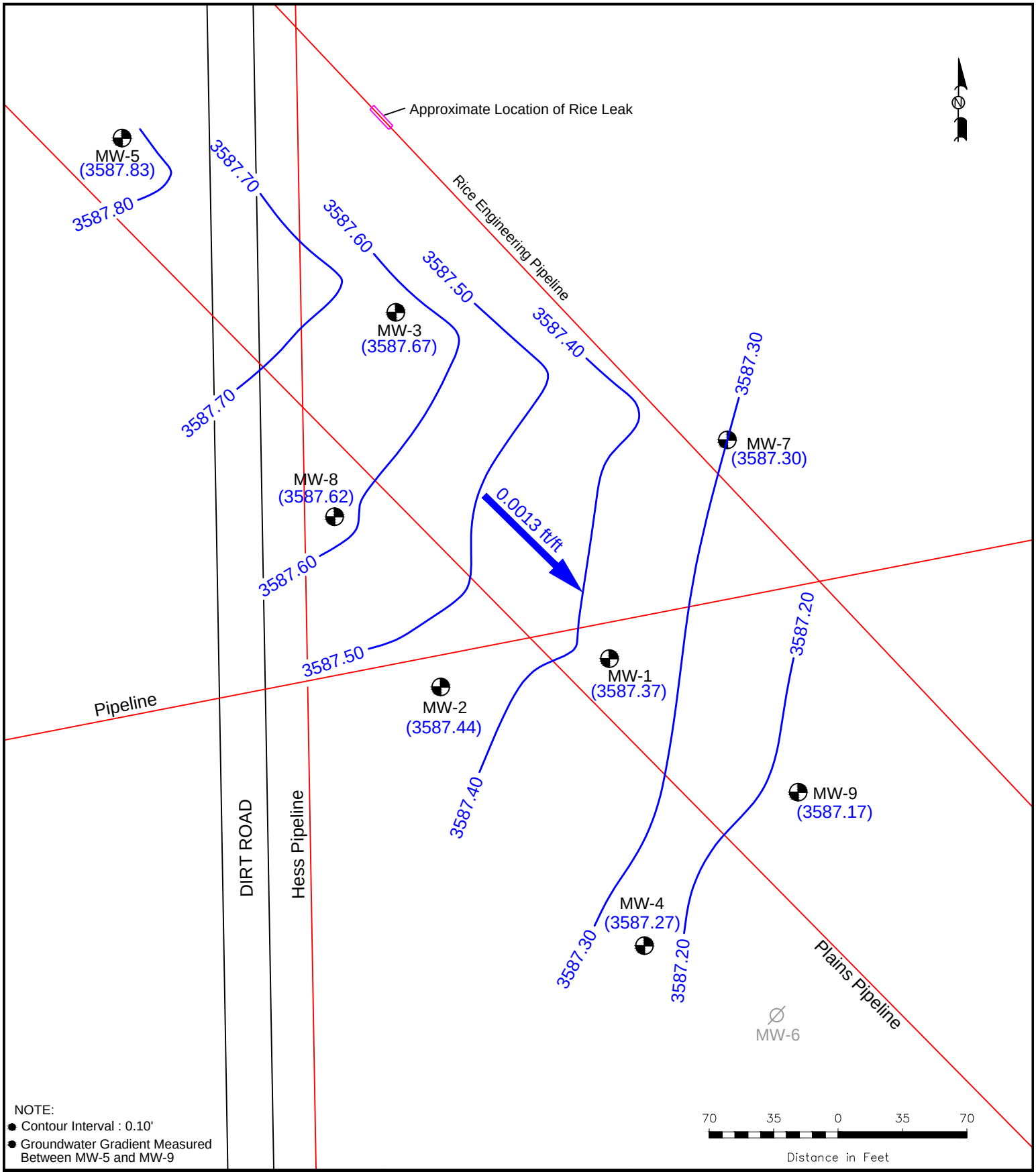
NOTE:
- Contour Interval : 0.10'
- Groundwater Gradient Measured Between MW-5 and MW-9

LEGEND:
- Monitor Well Location
- Plugged and Abandoned Well
- Ground Water Contour Lines
- (3587.54) Groundwater Elevation

Figure 3C
Inferred Groundwater Gradient Map
(8/13/2013)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

September 26, 2013	Scale: 1" = 70'	CAD By: TA	Checked By: CJB
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"	SE1/4 NW1/4 Sec 29 T19S R37E		



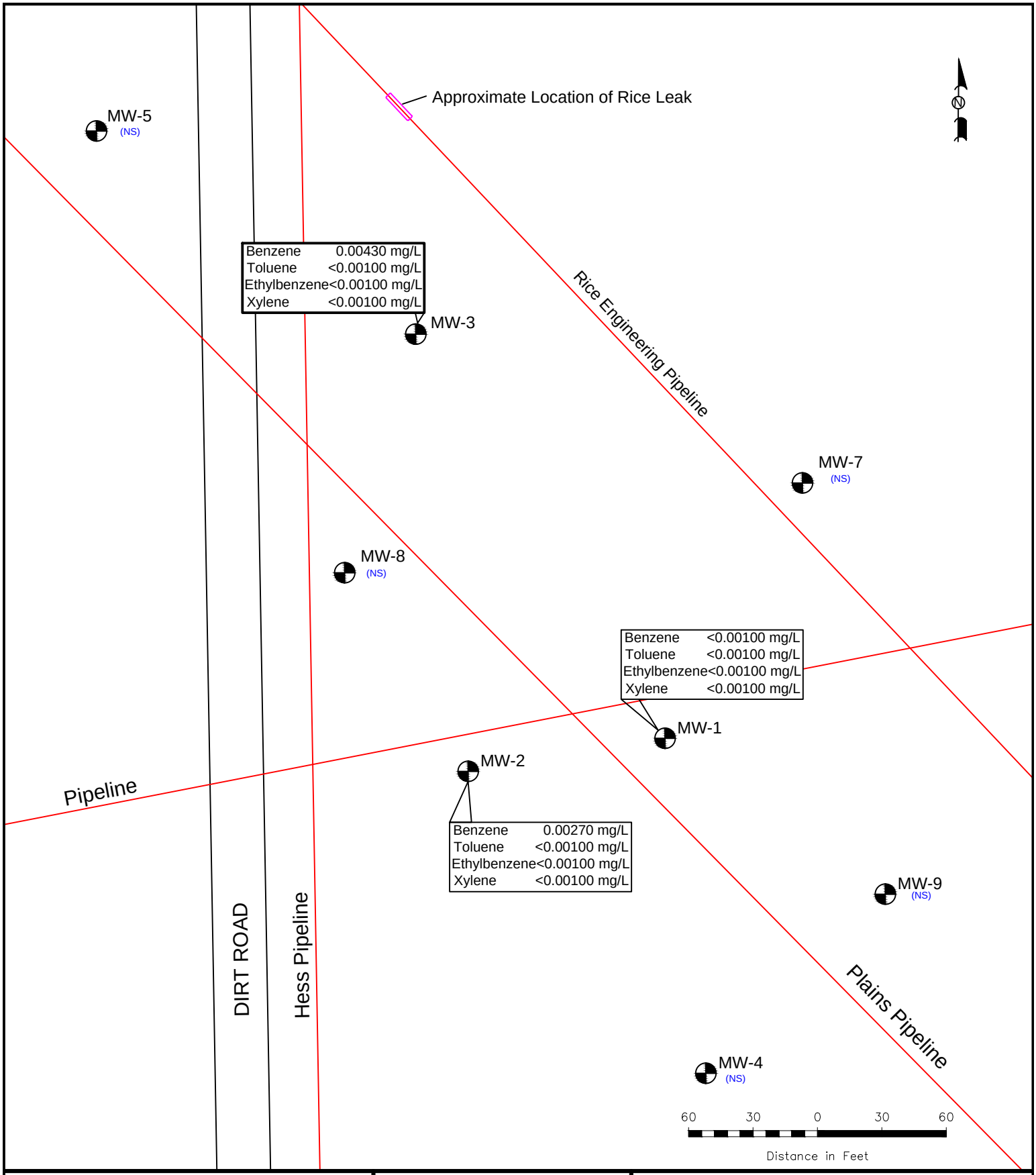
NOTE:
- Contour Interval : 0.10'
- Groundwater Gradient Measured Between MW-5 and MW-9

LEGEND:
- Monitor Well Location
- Ø Plugged and Abandoned Well
- Ground Water Contour Lines
- (3587.54) Groundwater Elevation

Figure 3D
Inferred Groundwater Gradient Map
(11/13/2013)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

December 23, 2013	Scale: 1" = 70'	CAD By: TA	Checked By: CS
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"	SE1/4 NW1/4 Sec 29 T19S R37E		



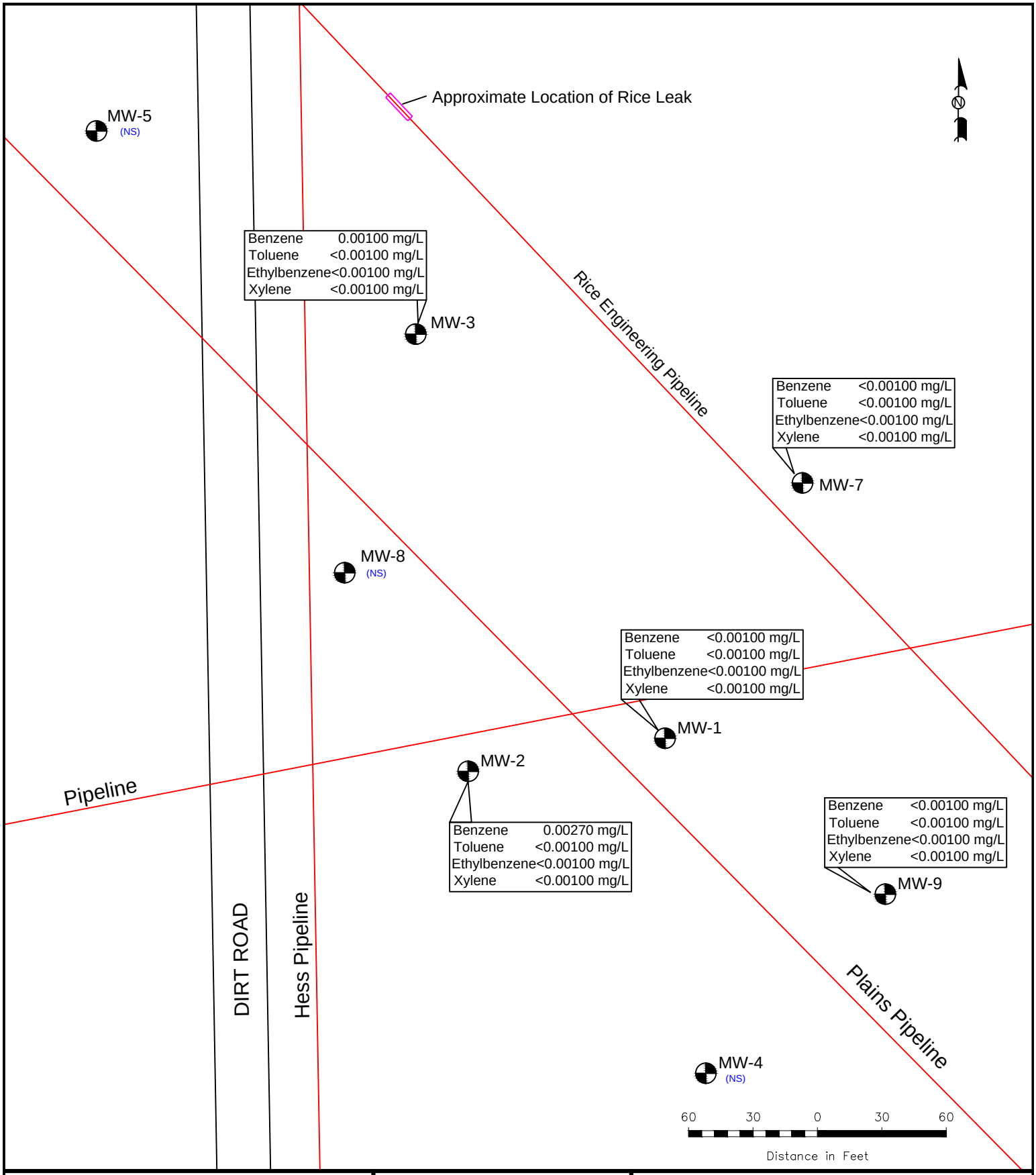
LEGEND:

- Monitor Well Location
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled

Figure 4A
Groundwater Concentration and Inferred PSH Extent Map (2/5/2013)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

April 9, 2013	Scale: 1" = 60'	CAD By: CAS	Checked By: RKR
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"		SE1/4 NW1/4 Sec 29 T19S R37E	



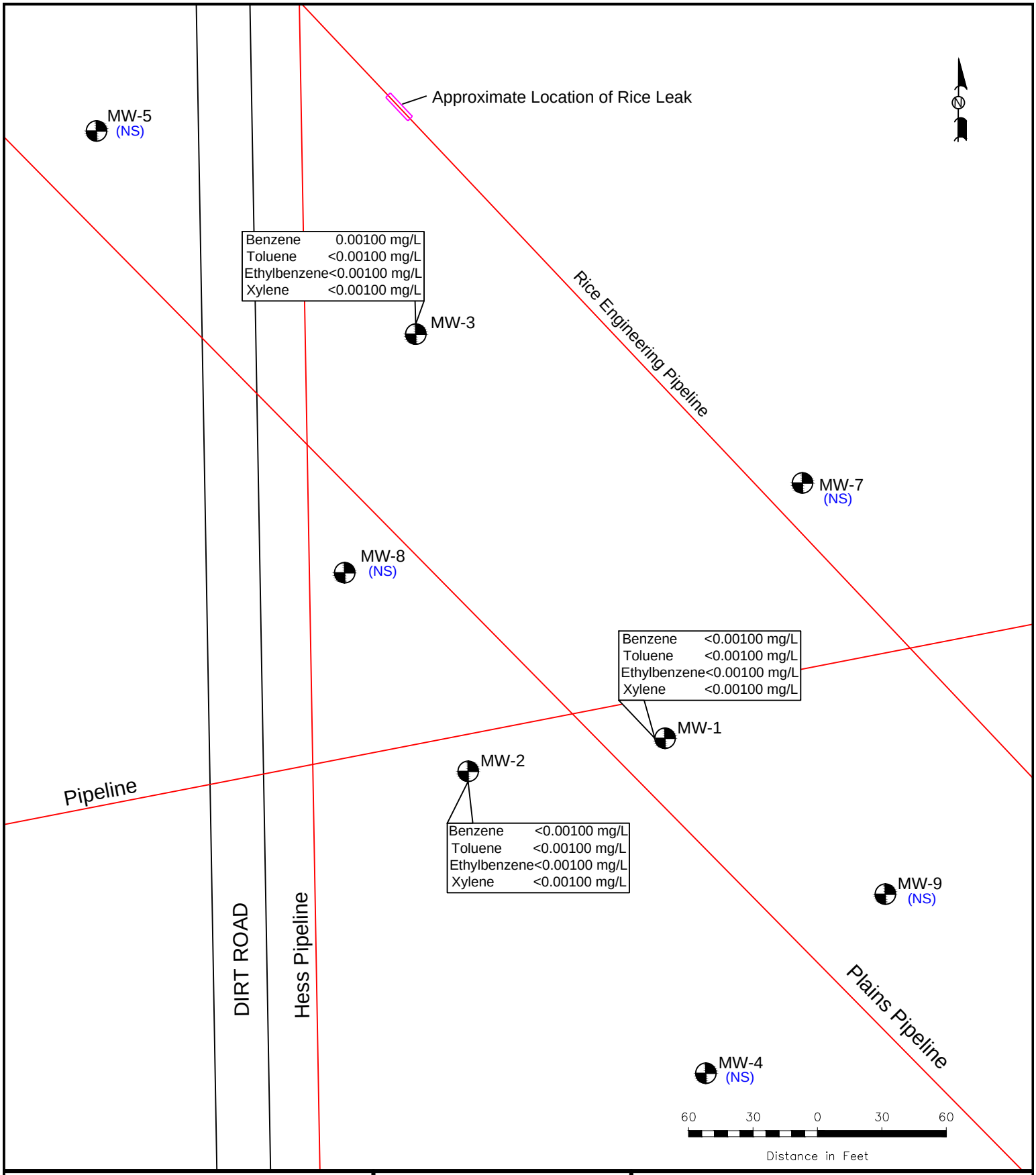
LEGEND:

- Monitor Well Location
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled

Figure 4B
Groundwater Concentration and Inferred PSH Extent Map
(5/23/2013)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

June 18, 2013	Scale: 1" = 60'	CAD By: CAS	Checked By: RKR
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"	SE1/4 NW1/4 Sec 29 T19S R37E		



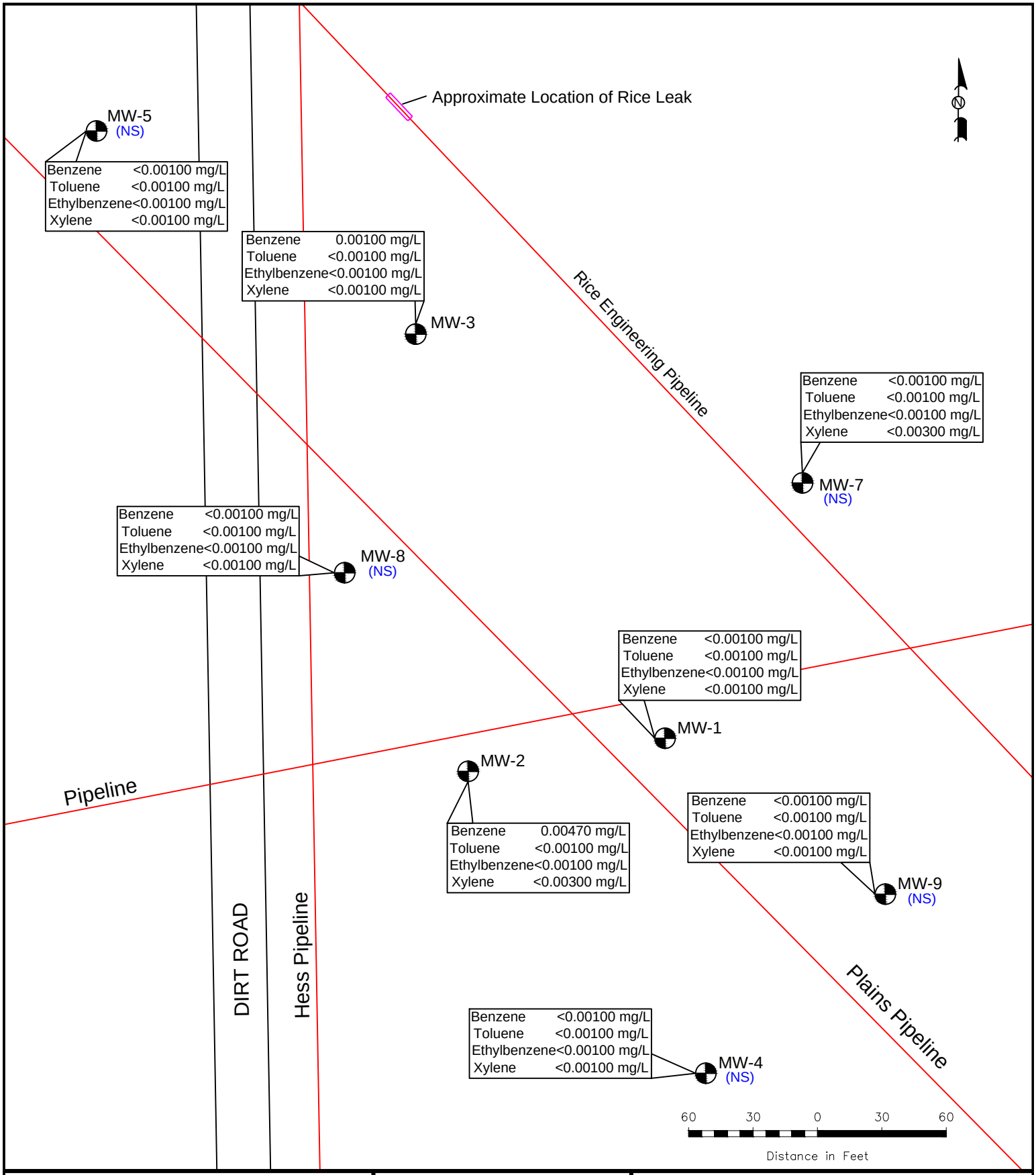
LEGEND:

- Monitor Well Location
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled
- (ND) Non Detect

Figure 4C
Groundwater Concentration and Inferred PSH Extent Map (8/13/2013)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

September 26, 2013	Scale: 1" = 60'	CAD By: TA	Checked By: CJB
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"		SE1/4 NW1/4 Sec 29 T19S R37E	



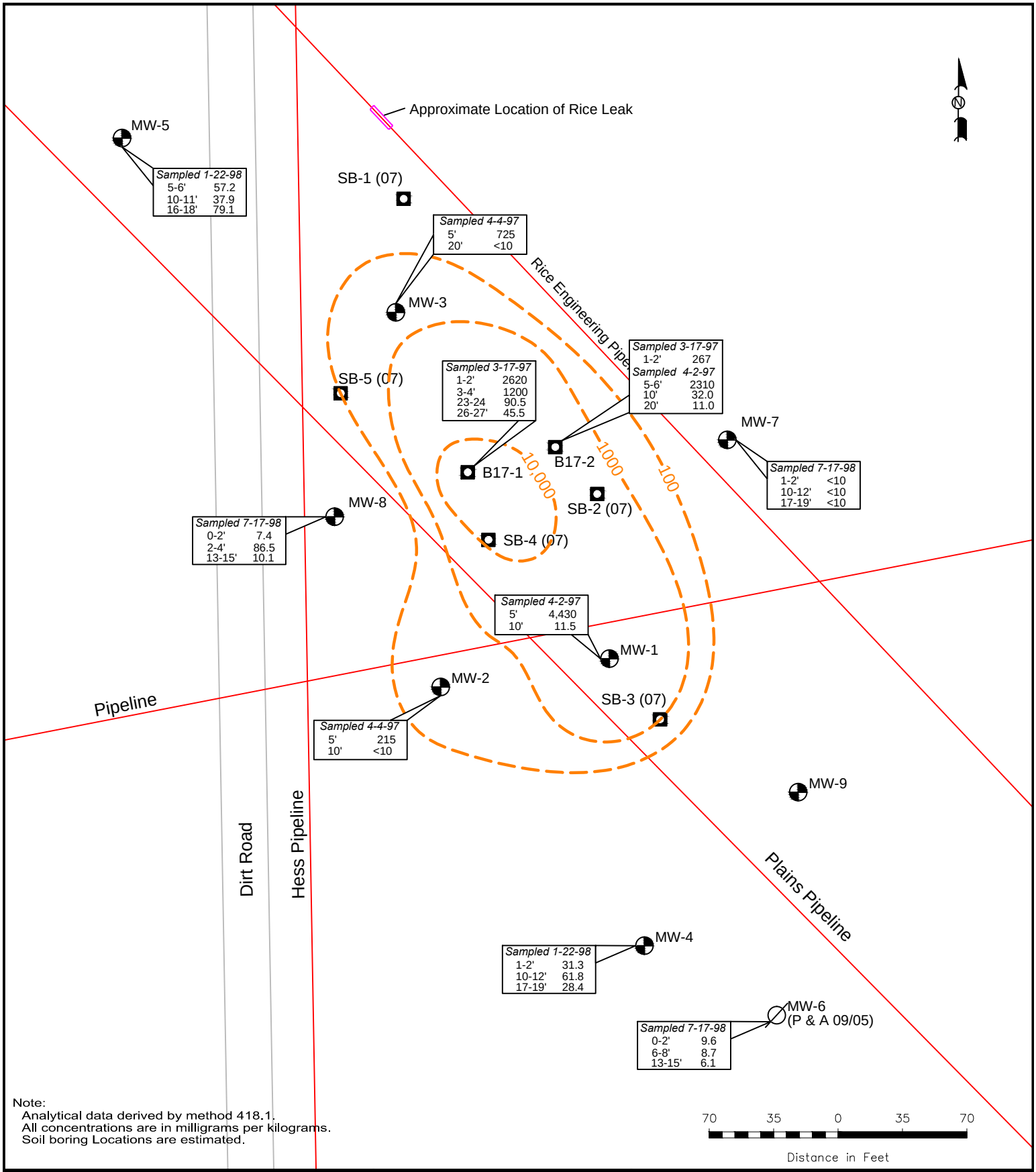
LEGEND:

- Monitor Well Location
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NS) Not Sampled
- (ND) Non Detect

Figure 4D
Groundwater Concentration and Inferred PSH Extent Map
(11/13/2013)
NMOCD Reference # IR 0123
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

December 23, 2013	Scale: 1" = 60'	CAD By: TA	Checked By: CS
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"	SE1/4 NW1/4 Sec 29 T19S R37E		



Note:
Analytical data derived by method 418.1.
All concentrations are in milligrams per kilograms.
Soil boring Locations are estimated.

LEGEND:

- Monitor Well Location
- Soil Boring

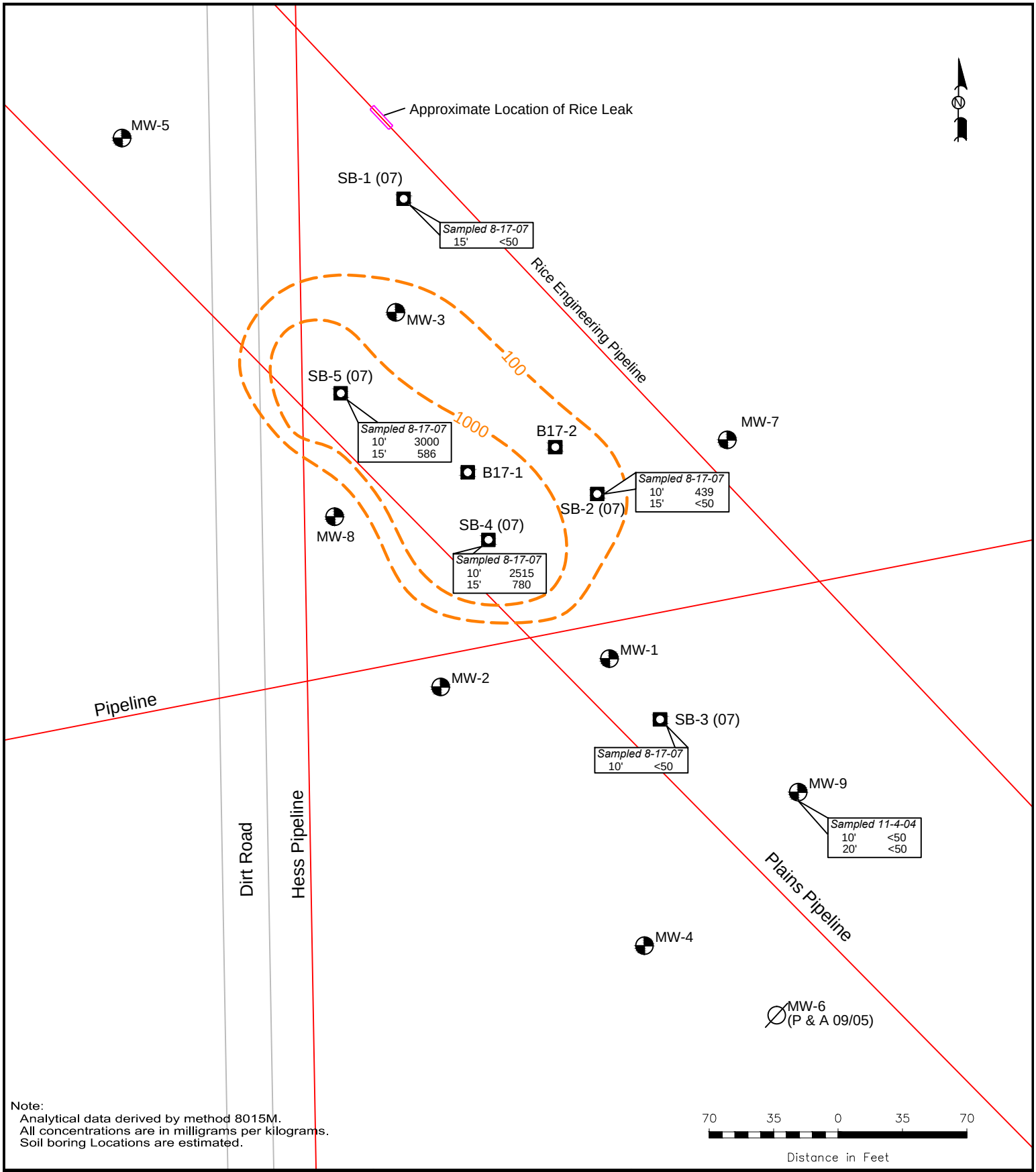
Figure 5

TPH Concentrations
in Soil 1997 - 1998
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

March 24, 2014	Scale: 1" = 70'	CAD By: TA	Checked By: CS

Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6" | SE1/4 NW1/4 Sec 29 T19S R37E



Note:
Analytical data derived by method 8015M.
All concentrations are in milligrams per kilograms.
Soil boring Locations are estimated.

LEGEND:

- Monitor Well Location
- Soil Boring

Figure 6

TPH Concentrations
in Soil 2004 - 2007
Plains Marketing, L.P.
Monument 17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

March 24, 2014	Scale: 1" = 70'	CAD By: TA	Checked By: CS
Lat. N 32° 37' 57.7" Long. W 103° 16' 31.6"	SE1/4 NW1/4 Sec 29 T19S R37E		

TABLE 1

2013 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	*02/05/13*	3,607.16	-	19.90	0.00	3,587.26
MW - 1	03/04/13	3,607.16	-	19.79	0.00	3,587.37
MW - 1	03/26/13	3,607.16	-	19.93	0.00	3,587.23
MW - 1	04/10/13	3,607.16	-	19.92	0.00	3,587.24
MW - 1	04/17/13	3,607.16	-	19.92	0.00	3,587.24
MW - 1	*05/23/13*	3,607.16	-	19.94	0.00	3,587.22
MW - 1	05/29/13	3,607.16	-	19.96	0.00	3,587.20
MW - 1	06/13/13	3,607.16	-	19.98	0.00	3,587.18
MW - 1	06/25/13	3,607.16	-	19.96	0.00	3,587.20
MW - 1	07/09/13	3,607.16	-	20.00	0.00	3,587.16
MW - 1	07/16/13	3,607.16	-	20.04	0.00	3,587.12
MW - 1	07/25/13	3,607.16	-	19.58	0.00	3,587.58
MW - 1	*08/13/13*	3,607.16	-	19.62	0.00	3,587.54
MW - 1	09/12/13	3,607.16	-	19.72	0.00	3,587.44
MW - 1	09/25/13	3,607.16	-	19.73	0.00	3,587.43
MW - 1	10/09/13	3,607.16	-	19.78	0.00	3,587.38
MW - 1	10/25/13	3,607.16	-	19.80	0.00	3,587.36
MW - 1	*11/13/13*	3,607.16	-	19.79	0.00	3,587.37
MW - 1	11/27/13	3,607.16	-	19.81	0.00	3,587.35
MW - 1	12/10/13	3,607.16	-	19.84	0.00	3,587.32
MW - 1	12/24/13	3,607.16	-	19.82	0.00	3,587.34
MW - 2	*02/05/13*	3,607.08	-	19.74	0.00	3,587.34
*MW - 2	03/04/13	3,607.08	-	22.54	0.00	3,584.54
MW - 2	03/26/13	3,607.08	-	19.78	0.00	3,587.30
MW - 2	04/10/13	3,607.08	-	19.79	0.00	3,587.29
MW - 2	04/17/13	3,607.08	-	19.78	0.00	3,587.30
MW - 2	*05/23/13*	3,607.08	-	19.79	0.00	3,587.29
MW - 2	05/29/13	3,607.08	-	19.83	0.00	3,587.25
MW - 2	06/13/13	3,607.08	-	19.82	0.00	3,587.26
MW - 2	06/25/13	3,607.08	-	19.86	0.00	3,587.22
MW - 2	07/09/13	3,607.08	-	19.89	0.00	3,587.19
MW - 2	07/16/13	3,607.08	-	19.88	0.00	3,587.20
MW - 2	07/25/13	3,607.08	-	19.42	0.00	3,587.66
MW - 2	*08/13/13*	3,607.08	-	19.46	0.00	3,587.62
MW - 2	09/12/13	3,607.08	-	19.56	0.00	3,587.52
MW - 2	09/25/13	3,607.08	-	19.58	0.00	3,587.50
MW - 2	10/09/13	3,607.08	-	19.64	0.00	3,587.44
MW - 2	10/25/13	3,607.08	-	19.66	0.00	3,587.42
MW - 2	*11/13/13*	3,607.08	-	19.64	0.00	3,587.44
MW - 2	11/27/13	3,607.08	-	19.68	0.00	3,587.40
MW - 2	12/10/13	3,607.08	-	19.69	0.00	3,587.39
MW - 2	12/24/13	3,607.08	-	19.69	0.00	3,587.39
MW - 3	*02/05/13*	3,608.43	-	20.88	0.00	3,587.55

TABLE 1

2013 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	03/04/13	3,608.43	-	20.73	0.00	3,587.70
MW - 3	03/26/13	3,608.43	-	20.91	0.00	3,587.52
MW - 3	04/10/13	3,608.43	-	20.92	0.00	3,587.51
MW - 3	04/17/13	3,608.43	-	20.91	0.00	3,587.52
MW - 3	*05/23/13*	3,608.43	-	20.93	0.00	3,587.50
MW - 3	05/29/13	3,608.43	-	20.95	0.00	3,587.48
MW - 3	06/13/13	3,608.43	-	20.94	0.00	3,587.49
MW - 3	06/25/13	3,608.43	-	20.94	0.00	3,587.49
MW - 3	07/09/13	3,608.43	-	20.97	0.00	3,587.46
MW - 3	07/16/13	3,608.43	-	21.01	0.00	3,587.42
MW - 3	07/25/13	3,608.43	-	20.50	0.00	3,587.93
MW - 3	*08/13/13*	3,608.43	-	20.57	0.00	3,587.86
MW - 3	09/12/13	3,608.43	-	20.67	0.00	3,587.76
MW - 3	09/25/13	3,608.43	-	20.69	0.00	3,587.74
MW - 3	10/09/13	3,608.43	-	20.75	0.00	3,587.68
MW - 3	10/25/13	3,608.43	-	20.80	0.00	3,587.63
MW - 3	*11/13/13*	3,608.43	-	20.76	0.00	3,587.67
MW - 3	11/27/13	3,608.43	-	20.79	0.00	3,587.64
MW - 3	12/10/13	3,608.43	-	20.81	0.00	3,587.62
*MW - 3	12/24/13	3,608.43	-	19.81	0.00	3,588.62
MW - 4	*02/05/13*	3,606.12	-	18.96	0.00	3,587.16
MW - 4	*05/23/13*	3,606.12	-	18.99	0.00	3,587.13
MW - 4	*08/13/13*	3,606.12	-	18.70	0.00	3,587.42
MW - 4	*11/13/13*	3,606.12	-	18.85	0.00	3,587.27
MW - 5	*02/05/13*	3,610.17	-	22.47	0.00	3,587.70
MW - 5	*05/23/13*	3,610.17	-	22.51	0.00	3,587.66
MW - 5	*08/13/13*	3,610.17	-	22.14	0.00	3,588.03
MW - 5	*11/13/13*	3,610.17	-	22.34	0.00	3,587.83
MW - 6	09/13/05	PLUGGED & ABANDONED				
MW - 7	*02/05/13*	3,607.38	-	20.19	0.00	3,587.19
MW - 7	*05/23/13*	3,607.38	-	20.22	0.00	3,587.16
MW - 7	*08/13/13*	3,607.38	-	19.90	0.00	3,587.48
MW - 7	*11/13/13*	3,607.38	-	20.08	0.00	3,587.30
MW - 8	*02/05/13*	3,607.99	-	20.48	0.00	3,587.51
MW - 8	*05/23/13*	3,607.99	-	20.53	0.00	3,587.46
MW - 8	*08/13/13*	3,607.99	-	20.18	0.00	3,587.81
MW - 8	*11/13/13*	3,607.99	-	20.37	0.00	3,587.62
MW - 9	*02/05/13*	3,606.83	-	19.75	0.00	3,587.08
MW - 9	05/09/13	3,606.83	-	19.79	0.00	3,587.04

TABLE 1

2013 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	*05/23/13*	3,606.83	-	19.79	0.00	3,587.04
MW - 9	*08/13/13*	3,606.83	-	19.51	0.00	3,587.32
MW - 9	*11/13/13*	3,606.83	-	19.66	0.00	3,587.17

Elevations based on the North America Vertical Datum of 1929.

TABLE 2

2013 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
NMOCD Regulatory Limit		0.0100	0.75	0.75	Total XYLENES 0.62	
MW - 1	02/05/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1	08/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	02/05/13	0.0027	<0.00100	<0.00100	<0.00100	
MW - 2	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	08/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	11/13/13	0.00470	<0.00100	<0.00100	<0.00300	
MW - 3	02/05/13	0.0043	<0.00100	<0.00100	<0.00100	
MW - 3	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	08/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	02/05/13	Not Sampled on Current Sample Schedule				
MW - 4	05/23/13	Not Sampled on Current Sample Schedule				
MW - 4	08/13/13	Not Sampled on Current Sample Schedule				
MW - 4	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/05/13	Not Sampled on Current Sample Schedule				
MW - 5	05/23/13	Not Sampled on Current Sample Schedule				
MW - 5	08/13/13	Not Sampled on Current Sample Schedule				
MW - 5	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	09/13/05	Plugged and Abandoned				
MW - 7	02/05/13	Not Sampled on Current Sample Schedule				
MW - 7	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	08/13/13	Not Sampled on Current Sample Schedule				
MW - 7	11/13/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 8	02/05/13	Not Sampled on Current Sample Schedule				
MW - 8	05/23/13	Not Sampled on Current Sample Schedule				
MW - 8	08/13/13	Not Sampled on Current Sample Schedule				
MW - 8	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	02/05/13	Not Sampled on Current Sample Schedule				
MW - 9	05/23/13	<0.00100	<0.00100	<0.001	<0.00100	
MW - 9	08/13/13	Not Sampled on Current Sample Schedule				
MW - 9	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-123

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	**0.001 mg/L**	**0.0001 mg/L**	**0.0007 mg/L**	**0.001 mg/L**	---	**0.001 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.0004 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.03 mg/L**			---
MW-1	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-2	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-4	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 4
CONCENTRATIONS OF TPH AND BTEX IN SOIL

MONUMENT #17
PLAINS MARKETING, L.P.
MONUMENT, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (FEET)	BENZENE (mg/Kg)	Methods: EPA SW 846-8021B, 5030				TOTAL BTEX (mg/Kg)	Method	Method		
				TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)		EPA 418.1	EPA SW 846-8015M		
										GRO/DRO		TOTAL
									Total	GRO	DRO	TPH
									TPH	C6-C10	C10-C28	C6-C28
									(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
B17-1	03/17/97	1-2'	0.53	4.21	13.5	14.43		32.67	**2,620**	-	-	-
B17-1	03/17/97	3-4'	**13.10**	66.50	109.00	122.05		**310.65**	**11,200**	-	-	-
B17-1	03/17/97	23-24'	0.242	0.298	0.652	0.497		1.689	90.5	-	-	-
B17-1	03/17/97	26-27'	<0.02	<0.02	<0.02	<0.04		<0.04	45.5	-	-	-
B17-2	03/17/97	1-2'	<0.02	<0.02	<0.02	<0.04		<0.04	**267**	-	-	-
B17-2	04/02/97	5-6'	0.44	9.88	31.30	26.31		**67.93**	**2,310**	-	-	-
B17-2	04/02/97	10'	<0.02	<0.02	0.023	<0.04		0.023	32.0	-	-	-
B17-2	04/02/97	20'	<0.02	<0.02	<0.02	<0.04		<0.04	11.0	-	-	-
B17-3 (MW-1)	04/02/97	5'	5.58	10.60	49.60	51.70		**117.48**	**4,430**	-	-	-
B17-3 (MW-1)	04/02/97	20'	<0.02	<0.02	<0.02	<0.04		<0.04	11.5	-	-	-
B17-4 (MW-2)	04/04/97	5'	<0.02	<0.02	1.25	1.77		3.02	**215**	-	-	-
B17-4 (MW-2)	04/04/97	10	<0.02	<0.02	<0.02	<0.04		<0.04	<10	-	-	-
B17-5 (MW-3)	04/04/97	5'	0.036	0.175	6.6	5.038		11.849	**725**	-	-	-
B17-5 (MW-3)	04/04/97	20'	<0.02	<0.02	<0.02	<0.04		<0.04	<10	-	-	-
MW17-4 (MW-4)	01/22/98	1-2'	<0.02	<0.02	<0.02	<0.04		<0.04	31.3	-	-	-
MW17-4 (MW-4)	01/22/98	10-12'	<0.02	<0.02	<0.02	<0.04		<0.04	61.8	-	-	-
MW17-4 (MW-4)	01/22/98	17-19'	<0.02	<0.02	<0.02	<0.04		<0.04	28.4	-	-	-
MW17-5 (MW-5)	01/22/98	5-6'	<0.02	<0.02	<0.02	<0.04		<0.04	57.2	-	-	-
MW17-5 (MW-5)	01/22/98	10-11'	<0.02	<0.02	<0.02	<0.04		<0.04	37.9	-	-	-
MW17-5 (MW-5)	01/22/98	16-18'	<0.02	<0.02	<0.02	<0.04		<0.04	79.1	-	-	-
MW17-6 (MW-6)	07/17/98	0-2'	<0.02	<0.02	<0.02	<0.04		<0.04	9.6	-	-	-
MW17-6 (MW-6)	07/17/98	6-8'	<0.02	<0.02	<0.02	<0.04		<0.04	8.7	-	-	-
MW17-6 (MW-6)	07/17/98	13-15'	<0.02	<0.02	<0.02	<0.04		<0.04	6.1	-	-	-
MW17-7 (MW-7)	07/17/98	0-2'	<0.02	<0.02	<0.02	<0.04		<0.04	<10	-	-	-
MW17-7 (MW-7)	07/17/98	13-15'	<0.02	<0.02	<0.02	<0.04		<0.04	<10	-	-	-
MW17-7 (MW-7)	07/17/98	20-22'	<0.02	<0.02	<0.02	<0.04		<0.04	<10	-	-	-
MW17-8 (MW-8)	07/17/98	0-2'	<0.02	<0.02	<0.02	<0.04		<0.04	7.4	-	-	-
MW17-8 (MW-8)	07/17/98	2-4'	<0.02	<0.02	<0.02	<0.04		<0.04	86.5	-	-	-
MW17-8 (MW-8)	07/17/98	13-15'	<0.02	<0.02	<0.02	<0.04		<0.04	10.1	-	-	-
MW-9	11/04/04	10'	<0.01	<0.01	<0.01	<0.01		<0.01	-	<1.00	<50.0	<50.0
MW-9	11/04/04	20'	<0.01	<0.01	<0.01	<0.01		<0.01	-	<1.00	<50.0	<50.0
SB1- @ 15'	08/17/07	15'	-	-	-	-		-	-	<1.00	<50.0	<50.0
SB-2 @ 10'	08/17/07	10'	0.44	2.83	10.2	11.7		25.17	-	216	223	439
SB-2 @ 15'	08/17/07	15'	-	-	-	-		-	-	16.4	<50.0	<50.0
SB-3 @ 10'	08/17/07	10'	-	-	-	-		-	-	<1.00	<50.0	<50.0
SB-4 @ 10'	08/17/07	10'	<0.05	<0.05	12.6	11.1		23.7	-	525	1990	2,515
SB-4 @ 15'	08/17/07	15'	-	-	-	-		-	-	205	575	780
SB-5 @ 10'	08/17/07	10'	-	-	-	-		-	-	350	2650	3,000
SB-5 @ 15'	08/17/07	15'	<0.01	<0.01	2.27	2.53		4.8	-	110	476	586

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company	Plains Pipeline, LP	Contact:	Camille Reynolds
Address:	3705 E. Hwy 158, Midland, TX 79706	Telephone No.	505-441-0965
Facility Name	Monument # 17	Facility Type:	Pipeline

Surface Owner:	Mineral Owner	Lease No.
New Mexico State Land Office		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	29	19S	37E					Lea

Latitude 32 degrees 37' 57.7" N **Longitude** 103 degrees 16' 31.6" W

NATURE OF RELEASE

Type of Release:	Volume of Release:	Volume Recovered
Source of Release:	Date and Hour of Occurrence Unknown	Date and Hour of Discovery
Was Immediate Notice Given? Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Describe Area Affected and Cleanup Action Taken.*
NOTE: Texas-New Mexico Pipeline was the owner/operator of the pipeline system at the time of the release, initial response information is unavailable.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:	Attached ☐
Date: 3/21/2005 Phone: (505)441-0965		

* Attach Additional Sheets If Necessary

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-70812

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Project Name: TNMPL Site 17

Date Received in Lab : Apr 8, 1997 12:00 by CMC
Date Report Faxed: Apr 21, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	170812-001	170812-002	170812-003	170812-004	170812-005	170812-006	170812-007	170812-008	
	Field ID:	B17-2@10'	B17-2@20'	B17-3@5'	B17-3@20'	B17-5@5'	B17-5@20'	B17-4@5'	B17-4@20'	
	Depth:	10'	20'	5'	20'	5'	20'	5'	20'	
Organic Content by ASTM D2974		Date Analyzed - Analytical Results %								
							Apr 18, 1997			
Organic Content							0.5			
BTEX by EPA 8020		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)								
		Apr 8, 1997	Apr 8, 1997	Apr 8, 1997	Apr 8, 1997	Apr 8, 1997	Apr 8, 1997	Apr 8, 1997	Apr 8, 1997	
Benzene		< 0.020	< 0.020	5.58	< 0.020	0.036	< 0.020	< 0.10	< 0.020	
Toluene		< 0.020	< 0.020	10.60	< 0.020	0.175	< 0.020	< 0.10	< 0.020	
Ethylbenzene		0.023	< 0.020	49.60	< 0.020	6.600	< 0.020	1.25	< 0.020	
m,p-Xylenes		< 0.040	< 0.040	40.20	< 0.040	4.920	< 0.040	1.13	< 0.040	
o-Xylene		< 0.020	< 0.020	11.50	< 0.020	0.118	< 0.020	0.64	< 0.020	
Total BTEX		0.023	< 0.120	117	< 0.120	11.849	< 0.120	3.02	< 0.120	
Total Petroleum Hydrocarbons by EPA 418.1		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)								
		Apr 9, 1997	Apr 9, 1997	Apr 9, 1997	Apr 9, 1997	Apr 9, 1997	Apr 9, 1997	Apr 9, 1997	Apr 9, 1997	
Total Petroleum Hydrocarbons		32.0	11.0	4430	11.5	725	< 10.0	215	< 10.0	

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A19A68

ASTM D2974 Organic Content

Date Validated: Apr 21, 1997 08:15
Date Analyzed: Apr 18, 1997 16:10
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CG
Matrix: Solid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 170812- 006	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	%	%	%	%	%	
Organic Content	0.53	0.46	0.1	14.1	20.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25B11

SW- 846 5030/8020 BTEX

Date Validated: Apr 9, 1997 09:00
Date Analyzed: Apr 8, 1997 15:45
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 170811- 001 / Parameter	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Method Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Benzene	< 0.020	2.100	2.140	2.000	0.020	25.0	1.9	105.0	107.0	65-135	
Toluene	< 0.020	2.120	2.100	2.000	0.020	25.0	0.9	106.0	105.0	65-135	
Ethylbenzene	< 0.020	2.100	2.140	2.000	0.020	25.0	1.9	105.0	107.0	65-135	
m,p-Xylenes	< 0.040	4.300	4.360	4.000	0.040	25.0	1.4	107.5	109.0	65-135	
o-Xylene	< 0.020	2.100	2.140	2.000	0.020	25.0	1.9	105.0	107.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25B11

SW- 846 5030/8020 BTEX

Date Validated: Apr 9, 1997 09:00
Date Analyzed: Apr 8, 1997 15:10
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Solid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1050	0.1000	0.0010	105.0	65-135	
Toluene	< 0.0010	0.1080	0.1000	0.0010	108.0	65-135	
Ethylbenzene	< 0.0010	0.1090	0.1000	0.0010	109.0	65-135	
m,p-Xylenes	< 0.0020	0.2220	0.2000	0.0020	111.0	65-135	
o-Xylene	< 0.0010	0.1080	0.1000	0.0010	108.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A30B30

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Apr 9, 1997 17:00
Date Analyzed: Apr 9, 1997 14:48
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OL
Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 170812- 006 / Parameter	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Method Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Total Petroleum Hydrocarbons	< 7.50	153	160	198	7.50	30.0	4.5	77.4	81.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A30B30

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Apr 9, 1997 17:00
Date Analyzed: Apr 9, 1997 14:45
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OL
Matrix: Solid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Total Petroleum Hydrocarbons	< 7.50	177	198	7.50	89.6	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A30B29

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Apr 9, 1997 17:00
Date Analyzed: Apr 9, 1997 13:57
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OL
Matrix: Solid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Total Petroleum Hydrocarbons	< 7.50	152	198	7.50	76.9	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A30B29

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Apr 9, 1997 17:00
Date Analyzed: Apr 9, 1997 14:00
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OL
Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 170813- 012	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	[J]
							QC	QC	QC	Matrix Spike	
Parameter	Sample Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Spike Amount	Method Detection Limit	Limit Relative Difference	Spike Relative Difference	Matrix Spike Recovery	M.S.D. Recovery	Recovery Range	Qualifier
	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Total Petroleum Hydrocarbons	< 7.50	154	178	198	7.50	30.0	14.5	77.9	90.1	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Project Name: TNMPL Site 17

XENCO COC#: 1-70812
Date Received in Lab: Apr 8, 1997 12:00 by CMC
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	B17-2@10' Soil	170812-001	BTEX	SW-846	ppm	Standard	Apr 2, 1997 12:41		Apr 8, 1997 by HL	Apr 8, 1997 16:36 by HL
2			TPH	EPA 418.1	ppm	Standard	Apr 2, 1997 12:41		Apr 9, 1997 by OL	Apr 9, 1997 14:24 by OL
3	B17-2@20' Soil	170812-002	BTEX	SW-846	ppm	Standard	Apr 2, 1997 13:09		Apr 8, 1997 by HL	Apr 8, 1997 16:54 by HL
4			TPH	EPA 418.1	ppm	Standard	Apr 2, 1997 13:09		Apr 9, 1997 by OL	Apr 9, 1997 14:27 by OL
5	B17-3@5' Soil	170812-003	BTEX	SW-846	ppm	Standard	Apr 2, 1997 14:02		Apr 8, 1997 by HL	Apr 8, 1997 17:11 by HL
6			TPH	EPA 418.1	ppm	Standard	Apr 2, 1997 14:02		Apr 9, 1997 by OL	Apr 9, 1997 14:30 by OL
7	B17-3@20' Soil	170812-004	BTEX	SW-846	ppm	Standard	Apr 2, 1997 15:05		Apr 8, 1997 by HL	Apr 8, 1997 17:28 by HL
8			TPH	EPA 418.1	ppm	Standard	Apr 2, 1997 15:05		Apr 9, 1997 by OL	Apr 9, 1997 14:33 by OL
9	B17-5@5' Soil	170812-005	BTEX	SW-846	ppm	Standard	Apr 4, 1997 09:48		Apr 8, 1997 by HL	Apr 8, 1997 17:45 by HL
10			TPH	EPA 418.1	ppm	Standard	Apr 4, 1997 09:48		Apr 9, 1997 by OL	Apr 9, 1997 14:54 by OL
11	B17-5@20' Soil	170812-006	BTEX	SW-846	ppm	Standard	Apr 4, 1997 10:55		Apr 8, 1997 by HL	Apr 8, 1997 18:02 by HL
12			TPH	EPA 418.1	ppm	Standard	Apr 4, 1997 10:55		Apr 9, 1997 by OL	Apr 9, 1997 14:57 by OL
13			Org. Content	ASTM D2974	%	Standard	Apr 4, 1997 10:55	Apr14,1997 16:30	Apr 18, 1997 by CG	Apr 18, 1997 16:05 by CG
14	B17-4@5' Soil	170812-007	BTEX	SW-846	ppm	Standard	Apr 4, 1997 08:20		Apr 8, 1997 by HL	Apr 8, 1997 18:20 by HL
15			TPH	EPA 418.1	ppm	Standard	Apr 4, 1997 08:20		Apr 9, 1997 by OL	Apr 9, 1997 15:00 by OL
16	B17-4@20' Soil	170812-008	BTEX	SW-846	ppm	Standard	Apr 4, 1997 09:05		Apr 8, 1997 by HL	Apr 8, 1997 18:37 by HL
17			TPH	EPA 418.1	ppm	Standard	Apr 4, 1997 09:05		Apr 9, 1997 by OL	Apr 9, 1997 15:03 by OL

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 170812-SA

Contractor: KEI Phone: (210) 680-3767

Address: 5309 WURZBACH SUITE 100 SA TX 78238

Project Name: TRMPL SITE 17 Project Director: PAUL HARTNET

Project Location: SITE 17 Project Manager: ANN BAKER

Sampler Signature: Project No.: 610057-2-17

No. coolers this shipment: 1 Contractor COC #

Carrier: UPS Quote #:

Airbill No. P.O. No: 7202

Turn-around: * ASAP * 24 hrs 48 hrs (Standard)

	Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of Containers Total	BTEX (5030/8020-602)	TPH (418.1)	Please Hold	Remarks	LAB ONLY ID #
1	B17-2e 10'	4/2/97	1241	10'	X			X	1-8oz 1-4oz	G	X		SOIL	2	X	X	X	Hold 8oz	1
2	B17-2e 20'	4/2/97	1309	20'	X			X	1-8oz 1-4oz	G	X		SOIL	2	X	X	X	Hold 8oz	2
3	B17-3e 5'	4/2/97	1402	5'	X			X	1-8oz 1-4oz	G	X		SOIL	2	X	X	X	Hold 8oz	3
4	B17-3e 20'	4/2/97	1505	20'	X			X	1-8oz 1-4oz	G	X		SOIL	2	X	X	X	Hold 8oz	4
5	B17-5e 5'	4/4/97	948	5'	X			X	1-8oz 1-4oz	G	X		SOIL	2	X	X	X	" "	5
6	B17-5e 20'	4/4/97	1055	20'	X			X	1-8oz 1-4oz	G	X		SOIL	2	X	X	X	" "	6
7	B17-4	4/4/97	0820	5	X			X	1-8oz 1-4oz	G	X		SOIL	2	X	X	X	" "	7
8	B17-4	4/4/97	0905	20	X			X	1-8oz 1-4oz	G	X		SOIL	2	X	X	X	" "	8
9																			9
10																			10

Unl Dies Ker Unknown Waste Oil PIT No: Tank No:

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	4/7/97	1600			
			Received For Laboratory by: Colleen McGuinn	4/8/97	1200

Remarks: VIA UPS

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-70662

K.E.I. Consultants, Inc.

Project Name: TNMPL Monument

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Date Received in Lab: Mar 20, 1997 11:30 by CC
Date Report Faxed: Apr 8, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	170662-001	170662-002	170662-003	170662-004	170662-005	
	Field ID:	B-17-1	B-17-1	B-17-1	B-17-1	B-17-2	
	Depth:	1-2'	3-4'	23-24'	26-27'	1-2'	
BTEX Analyzed by EPA 8020		Date Analyzed - Analytical Results					**ppm (mg/L - mg/Kg)**
		Mar 21, 1997	Mar 21, 1997	Mar 21, 1997	Mar 21, 1997	Mar 21, 1997	
Benzene		0.53	13.10	0.242	< 0.020	< 0.020	
Toluene		4.21	66.50	0.298	< 0.020	< 0.020	
Ethylbenzene		13.50	109	0.652	< 0.020	< 0.020	
m,p-Xylenes		10.10	90.50	0.360	< 0.040	< 0.040	
o-Xylene		4.33	31.55	0.137	< 0.020	< 0.020	
Total BTEX		32.67	311	1.689	< 0.120	< 0.120	
SPLP Volatiles by 1312/8260		Date Analyzed - Analytical Results					**ppm (mg/L - mg/Kg)**
			Apr 7, 1997				
Benzene			0.054				
Bromobenzene			< 0.025				
Bromodichloromethane			< 0.025				
Bromoform			< 0.025				
Bromomethane			< 0.025				
n-Butylbenzene			< 0.025				
sec-Butylbenzene			< 0.025				
tert-Butylbenzene			< 0.025				
Carbon Tetrachloride			< 0.025				
Chloroethane			< 0.050				
Chloroform			< 0.025				
Chloromethane			< 0.050				
2-Chlorotoluene			< 0.025				
4-Chlorotoluene			< 0.025				
1,2-Dibromo-3-chloropropane			< 0.025				
Dibromochloromethane			< 0.025				
1,2-Dibromoethane			< 0.025				

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-70662

K.E.I. Consultants, Inc.

Project Name: TNMPL Monument

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Date Received in Lab: Mar 20, 1997 11:30 by CC
Date Report Faxed: Apr 8, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	170662-001	170662-002	170662-003	170662-004	170662-005	
	Field ID:	B-17-1	B-17-1	B-17-1	B-17-1	B-17-2	
	Depth:	1-2'	3-4'	23-24'	26-27'	1-2'	
Dibromomethane			< 0.025				
1,2-Dichlorobenzene			< 0.025				
1,3-Dichlorobenzene			< 0.025				
1,4-Dichlorobenzene			< 0.025				
Dichlorodifluoromethane			< 0.025				
1,1-Dichloroethane			< 0.025				
1,2-Dichloroethane			< 0.025				
1,1-Dichloroethene			< 0.025				
cis-1,2-Dichloroethene			< 0.025				
trans-1,2-Dichloroethene			< 0.025				
1,2-Dichloropropane			< 0.025				
1,3-Dichloropropane			< 0.025				
2,2-Dichloropropane			< 0.025				
1,1-Dichloropropene			< 0.025				
Ethylbenzene			0.434				
Hexachlorobutadiene			< 0.025				
Isopropylbenzene			0.045				
p-Isopropyltoluene			< 0.025				
Methylene chloride			< 0.025				
Naphthalene			0.060				
n-Propylbenzene			0.048				
Styrene			< 0.025				
1,1,1,2-Tetrachloroethane			< 0.025				
1,1,2,2-Tetrachloroethane			< 0.025				
Tetrachloroethene			< 0.025				
Toluene			0.321				
1,2,3-Trichlorobenzene			< 0.025				
1,2,4-Trichlorobenzene			< 0.025				

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QA/QC Manager

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CERTIFICATE OF ANALYSIS SUMMARY 1-70662

K.E.I. Consultants, Inc.

Project Name: TNMPL Monument

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Date Received in Lab: Mar 20, 1997 11:30 by CC
Date Report Faxed: Apr 8, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	170662-001	170662-002	170662-003	170662-004	170662-005	
	Field ID:	B-17-1	B-17-1	B-17-1	B-17-1	B-17-2	
	Depth:	1-2'	3-4'	23-24'	26-27'	1-2'	
1,1,1-Trichloroethane			< 0.025				
1,1,2-Trichloroethane			< 0.025				
Trichloroethene			< 0.025				
Trichlorofluoromethane			< 0.025				
1,2,3-Trichloropropane			< 0.025				
1,2,4-Trimethylbenzene			0.116				
1,3,5-Trimethylbenzene			0.034				
Vinyl chloride			< 0.025				
o-Xylene			0.188				
m,p-Xylenes			0.370				
Bromochloromethane			< 0.025				
Chlorobenzene			< 0.025				
MTBE			< 0.050				
SPLP Semivolatiles by 1312/8270		Date Analyzed	- Analytical Results			**ppm (mg/L - mg/Kg)**	
			Mar 28, 1997				
Acenaphthene			< 0.010				
Acenaphthylene			< 0.010				
Anthracene			< 0.010				
Benzo[a]anthracene			< 0.010				
Benzo[a]pyrene			< 0.010				
Benzo[b]fluoranthene			< 0.010				
Benzo[ghi]perylene			< 0.010				
Benzo[k]fluoranthene			< 0.010				
Butyl benzyl phthalate			< 0.010				
Carbazole			< 0.010				
4-Chloroaniline			< 0.010				

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-70662

K.E.I. Consultants, Inc.

Project Name: TNMPL Monument

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Date Received in Lab: Mar 20, 1997 11:30 by CC
Date Report Faxed: Apr 8, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID:	170662-001	170662-002	170662-003	170662-004	170662-005	
	Field ID:	B-17-1	B-17-1	B-17-1	B-17-1	B-17-2	
	Depth:	1-2'	3-4'	23-24'	26-27'	1-2'	
bis [2-Chloroethoxy] methane			< 0.010				
bis [2-Chloroethyl] ether			< 0.010				
bis [2-Chloroisopropyl] ether			< 0.010				
2-Chloronaphthalene			< 0.010				
2-Chlorophenol			< 0.010				
4-Chlorophenyl-phenyl ether			< 0.010				
Chrysene			< 0.010				
Dibenzofuran			< 0.010				
Dibenzo[a,h]anthracene			< 0.010				
1,2-Dichlorobenzene			< 0.010				
1,3-Dichlorobenzene			< 0.010				
1,4-Dichlorobenzene			< 0.010				
3,3'-Dichlorobenzidine			< 0.010				
2,4-Dichlorophenol			< 0.010				
Diethyl phthalate			< 0.010				
2,4-Dimethylphenol			< 0.010				
Dimethyl phthalate			< 0.010				
4,6-Dinitro-2-methylphenol			< 0.025				
2,4-Dinitrophenol			< 0.025				
2,4-Dinitrotoluene			< 0.010				
2,6-Dinitrotoluene			< 0.010				
Di-n-octyl phthalate			< 0.010				
bis [2-Ethylhexyl] phthalate			< 0.010				
Fluoranthene			< 0.010				
Fluorene			< 0.010				
Hexachlorobenzene			< 0.010				
Hexachlorobutadiene			< 0.010				
Hexachlorocyclopentadiene			< 0.010				

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QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-70662

K.E.I. Consultants, Inc.

Project Name: TNMPL Monument

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Date Received in Lab: Mar 20, 1997 11:30 by CC
Date Report Faxed: Apr 8, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID:	170662-001	170662-002	170662-003	170662-004	170662-005	
	Field ID:	B-17-1	B-17-1	B-17-1	B-17-1	B-17-2	
	Depth:	1-2'	3-4'	23-24'	26-27'	1-2'	
Hexachloroethane			< 0.010				
Indeno[1,2,3-cd]pyrene			< 0.010				
Isophorone			< 0.010				
2-Methylnaphthalene			0.039				
2-Methylphenol			< 0.010				
4-Methylphenol			< 0.010				
Naphthalene			0.067				
2-Nitroaniline			< 0.025				
3-Nitroaniline			< 0.025				
4-Nitroaniline			< 0.025				
Nitrobenzene			< 0.010				
2-Nitrophenol			< 0.010				
4-Nitrophenol			< 0.010				
N-Nitroso-di-n-propylamine			< 0.010				
N-Nitrosodiphenylamine			< 0.010				
Pentachlorophenol			< 0.025				
Phenanthrene			< 0.010				
Phenol			< 0.010				
Pyrene			< 0.010				
Pyridine			< 0.010				
1,2,4-Trichlorobenzene			< 0.010				
2,4,5-Trichlorophenol			< 0.025				
2,4,6-Trichlorophenol			< 0.010				
4-Bromophenyl-phenylether			< 0.010				
4-Chloro-3-Methylphenol			< 0.010				
Di-n-butyl phthalate			0.013				

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-70662

K.E.I. Consultants, Inc.

Project Name: TNMPL Monument

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Date Received in Lab: Mar 20, 1997 11:30 by CC
Date Report Faxed: Apr 8, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	170662-001	170662-002	170662-003	170662-004	170662-005	
	Field ID:	B-17-1	B-17-1	B-17-1	B-17-1	B-17-2	
	Depth:	1-2'	3-4'	23-24'	26-27'	1-2'	
TPH Analyzed by EPA 418.1		Date Analyzed - Analytical Results					**ppm (mg/L - mg/Kg)**
		Mar 20, 1997	Mar 20, 1997	Mar 20, 1997	Mar 20, 1997	Mar 20, 1997	
Total Petroleum Hydrocarbons		2620	11200	90.5	45.5	267	
SPLP TPH by 1312/418.1		Date Analyzed - Analytical Results					**ppm (mg/L - mg/Kg)**
			Apr 1, 1997				
Total Petroleum Hydrocarbons			1.4				

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25A94

SW- 846 5030/8020 BTEX

Date Validated: Mar 21, 1997 16:00
Date Analyzed: Mar 21, 1997 09:53
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CB
Matrix: Solid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC LIMITS Blank Spike Recovery %	[F] Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1090	0.1000	0.0010	109.0	65-135	
Toluene	< 0.0010	0.1050	0.1000	0.0010	105.0	65-135	
Ethylbenzene	< 0.0010	0.1070	0.1000	0.0010	107.0	65-135	
m,p-Xylenes	< 0.0020	0.2200	0.2000	0.0020	110.0	65-135	
o-Xylene	< 0.0010	0.1060	0.1000	0.0010	106.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25A94

SW- 846 5030/8020 BTEX

Date Validated: Mar 21, 1997 16:00
Date Analyzed: Mar 21, 1997 10:10
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CB
Matrix: Solid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 170662- 005	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Method Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.020	2.100	2.140	2.000	0.020	25.0	1.9	105.0	107.0	65-135	
Toluene	< 0.020	1.996	2.040	2.000	0.020	25.0	2.2	99.8	102.0	65-135	
Ethylbenzene	< 0.020	2.080	2.120	2.000	0.020	25.0	1.9	104.0	106.0	65-135	
m,p-Xylenes	< 0.040	4.140	4.240	4.000	0.040	25.0	2.4	103.5	106.0	65-135	
o-Xylene	< 0.020	1.928	1.986	2.000	0.020	25.0	3.0	96.4	99.3	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A01B57

SW846- 8260 Volatile Organic Analysis

Date Validated: Apr 8, 1997 14:25
Date Analyzed: Apr 7, 1997 20:07
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CE
Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 170664- 001	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	[J]
Parameter	Sample Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Spike Amount	Method Detection Limit	Limit Relative Difference	QC Spike Relative Difference	QC Matrix Spike Recovery	QC M.S.D. Recovery	Matrix Spike Recovery Range	Qualifier
	mg/L	mg/L	mg/L	mg/L	mg/L	%	%	%	%	%	
Benzene	< 0.0050	0.2460	0.2535	0.2500	0.0050	21.0	3.0	98.4	101.4	66-142	
Chlorobenzene	< 0.0050	0.2405	0.2540	0.2500	0.0050	21.0	5.5	96.2	101.6	60-133	
1,1-Dichloroethene	< 0.0200	0.2105	0.2160	0.2500	0.0200	22.0	2.6	84.2	86.4	59-172	
Toluene	0.0100	0.2460	0.2590	0.2500	0.0050	21.0	5.1	94.4	99.6	59-139	
Trichloroethene	< 0.0150	0.2240	0.2350	0.2500	0.0150	24.0	4.8	89.6	94.0	62-137	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A02B29

SW846-8270 Semivolatiles (SVOCs TCL)

Date Validated: Apr 2, 1997 11:53
Date Analyzed: Mar 28, 1997 00:37
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: MM
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Acenaphthene	< 0.0050	0.0496	0.0508	0.1000	0.0050	31.0	2.4	49.6	50.8	46-118	
4-Chloro-3-Methylphenol	< 0.0080	0.0600	0.0596	0.1000	0.0080	42.0	0.7	60.0	59.6	23-97	
2-Chlorophenol	< 0.0100	0.0606	0.0606	0.1000	0.0100	40.0	0.0	60.6	60.6	27-123	
1,4-Dichlorobenzene	< 0.0080	0.0502	0.0500	0.1000	0.0080	28.0	0.4	50.2	50.0	36-97	
2,4-Dinitrotoluene	< 0.0100	0.0502	0.0518	0.1000	0.0100	38.0	3.1	50.2	51.8	24-96	
N-Nitroso-di-n-propylamine	< 0.0080	0.0608	0.0602	0.1000	0.0080	38.0	1.0	60.8	60.2	41-116	
4-Nitrophenol	< 0.0080	0.0270	0.0270	0.1000	0.0080	50.0	0.0	27.0	27.0	10-80	
Pentachlorophenol	< 0.0170	0.0514	0.0512	0.1000	0.0170	50.0	0.4	51.4	51.2	9-103	
Phenol	< 0.0070	0.0376	0.0370	0.1000	0.0070	42.0	1.6	37.6	37.0	12-89	
Pyrene	< 0.0040	0.0500	0.0502	0.1000	0.0040	31.0	0.4	50.0	50.2	26-127	
1,2,4-Trichlorobenzene	< 0.0110	0.0478	0.0470	0.1000	0.0110	28.0	1.7	47.8	47.0	39-98	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A30B03

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Mar 21, 1997 12:00
Date Analyzed: Mar 20, 1997 17:03
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Solid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 170664- 002	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Method Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Total Petroleum Hydrocarbons	43.00	201	197	198	7.50	30.0	2.0	80.0	77.9	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A30B03

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Mar 21, 1997 12:00
Date Analyzed: Mar 20, 1997 16:36
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Solid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Total Petroleum Hydrocarbons	< 7.50	184	198	7.50	93.1	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A07C23

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Apr 1, 1997 10:05
Date Analyzed: Apr 1, 1997 08:36
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CG
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Duplicate Result ppm	[D] Blank Spike Amount ppm	[E] Method Detection Limit ppm	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Total Petroleum Hydrocarbons	< 0.68	4.01	4.01	4.04	0.68	25.0	0.0	99.3	99.3	70-125	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab. Batch # 170662-SA

Contractor: KET | Phone: (210) 680 3767

Address: 5309 WURZBACH STE 100 SAN ANTONIO TX 78238

Project Name: TRMPL/Monument | Project Director: PAUL HARNETT

Project Location: SITE 17 | Project Manager: Ann Baker

Sampler Signature: [signature] | Project No.: 610051-2-17

No. coolers this shipment: | Contractor COC # 0011

Carrier: | Quote #:

Airbill No. | P.O. No.: 7202

Turn-around: * ASAP * 24 hrs 48 hrs (Standard)

	Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of Containers Total	BTEX (5030/8020-602)	TPH (418.1)	Please Hold	Remarks	LAB ONLY ID #
1	B-17-1 1-21	3/17/97	0920	1-2	X			X	4,8	G	X		B17-1, 1-21	2	X	X		Hold 8oz	1
2	B-17-1, 3-4		0920	3-4									B17-1, 3-4						2
3	B-17-1, 23-24		1045	23-24									B17-1, 23-24						3
4	B17-1 26-27		1045	26-27									B17-1, 26-27						4
5	B17-2 1-21		1115	1-2									B17-2, 1-2						5
6																			6
7																			7
8																			8
9																			9
10																			10

Waste Oil | PIT No: | Tank No: | Unl Dies Ker Unknown

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Gerald F Carrill.	3/18/97		Gerald F Carrill.	3-18-97	1200
			Received For Laboratory by	3-20-97	11:30 → Via UPS

Remarks: PLS HOLD 8oz pending TPH.

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab. Batch # 170662-SA

Contractor: KEI | Phone: (210) 680 3767

Address: 5309 WURZBACH STE 100 San Antonio TX 78238

Project Name: TRUMPL/monument | Project Director: PAUL HAERNETT

Project Location: SITE 17 | Project Manager: Ann Baker

Sampler Signature: | Project No.: 61005-2-17

No. coolers this shipment: | Contractor COC # 0011

Carrier: | Quote #:

Airbill No. | P.O. No: 7202

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of CONTAINERS Total	BTEX (8020/8020-602)	TPH (418.1)	SPLP-VOLATICES	SPLP-SEMI VOLATILES	SPLP-TPH	Please Hold	LAB ONLY ID #
1	B-17-1 1-21	3/17/97	0920	1-2	X			X	4,8	G	X		B17-1, 1-21	2	X	X				Hold 8oz	1
2	B-17-1 3-4'		0920	3-4									B17-1, 3-4	1			⊗	⊗	⊗		2
3	B-17-1, 23-24		1045	23-24									B17-1, 23-24								3
4	B17-1 26-27		1045	26-27									B17-1, 26-27								4
5	B17-2 1-21		1115	1-2									B17-2, 1-2								5
6																					6
7																					7
8																					8
9																					9
10																					10

Unl Dies Ker Unknown

Waste Oil

PIT No: Tank No:

Turn-around: ASAP / 24 hrs / 48 hrs / Standard

Remarks

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Gerald J Carrillo	3/18/97		Gerald J Carrillo	3-18-97	1200
			Received For Laboratory by		
				3-20-97	11:30

Remarks

As Hold 8oz pending TPH.

⊗ ADDITION - Requested by A. Baker

→ Via UPS 3/26/97 14:00 5-7 days.

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-70872

K.E.I. Consultants, Inc.

Project Name: TNMPL

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Date Received in Lab: Apr 14, 1997 17:20 by CC
Date Report Faxed: Apr 16, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	170872-001					
	Field ID:	B17-2					
	Depth:	5-6'					
BTEX Analyzed by EPA 8020	Date Analyzed - Analytical Results						**ppm (mg/L - mg/Kg)**
	Apr 14, 1997						
Benzene	0.44						
Toluene	9.88						
Ethylbenzene	31.30						
m,p-Xylenes	25.30						
o-Xylene	1.01						
Total BTEX	67.93						
TPH Analyzed by EPA 418.1	Date Analyzed - Analytical Results						**ppm (mg/L - mg/Kg)**
	Apr 15, 1997						
Total Petroleum Hydrocarbons	2310						

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Edward B. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25B23

SW- 846 5030/8020 BTEX

Date Validated: Apr 15, 1997 09:30
Date Analyzed: Apr 14, 1997 12:40
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Solid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1060	0.1000	0.0010	106.0	65-135	
Toluene	< 0.0010	0.1060	0.1000	0.0010	106.0	65-135	
Ethylbenzene	< 0.0010	0.1070	0.1000	0.0010	107.0	65-135	
m,p-Xylenes	< 0.0020	0.2130	0.2000	0.0020	106.5	65-135	
o-Xylene	< 0.0010	0.1060	0.1000	0.0010	106.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25B23

SW- 846 5030/8020 BTEX

Date Validated: Apr 15, 1997 09:30
Date Analyzed: Apr 14, 1997 13:14
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 170852- 001	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	[J]
							QC	QC	QC	Matrix Spike	
Parameter	Sample Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Spike Amount	Method Detection Limit	Limit Relative Difference	Spike Relative Difference	Matrix Spike Recovery	M.S.D. Recovery	Recovery Range	Qualifier
	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.020	1.946	1.870	2.000	0.020	25.0	4.0	97.3	93.5	65-135	
Toluene	< 0.020	1.960	1.912	2.000	0.020	25.0	2.5	98.0	95.6	65-135	
Ethylbenzene	< 0.020	1.962	1.944	2.000	0.020	25.0	0.9	98.1	97.2	65-135	
m,p-Xylenes	< 0.040	4.020	3.960	4.000	0.040	25.0	1.5	100.5	99.0	65-135	
o-Xylene	< 0.020	1.964	1.942	2.000	0.020	25.0	1.1	98.2	97.1	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A30B42

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Apr 15, 1997 18:00
Date Analyzed: Apr 15, 1997 15:14
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OL
Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 170867- 009	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	[J]
							QC	QC	QC	Matrix Spike	
Parameter	Sample Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Spike Amount	Method Detection Limit	Limit Relative Difference	Spike Relative Difference	Matrix Spike Recovery	M.S.D. Recovery	Recovery Range	Qualifier
	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Total Petroleum Hydrocarbons	24.00	185	174	198	7.50	30.0	6.1	81.5	75.9	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A30B42

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Apr 15, 1997 18:00
Date Analyzed: Apr 15, 1997 15:11
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OL
Matrix: Solid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Total Petroleum Hydrocarbons	< 7.50	182	198	7.50	92.1	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Manager: Ann Baker
Project Location: Site 17

Project Name: TNMPL

XENCO COC#: 1-70872
Date Received in Lab: Apr 14, 1997 17:20 by CC
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	B17-2	170872-001	TPH	EPA 418.1	ppm	Standard	Apr 2, 1997 12:32		Apr 15, 1997 by OL	Apr 15, 1997 15:26 by OL
2			BTEX	SW-846	ppm	Standard	Apr 2, 1997 12:32		Apr 14, 1997 by HL	Apr 14, 1997 18:06 by HL

XENCO Laboratories

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(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab. Batch # 170872-SA

Contractor: KEI Consultants Phone (210) 680-3767

Address: 5309 Wurzbach Rd Suite 100

Project Name: TNMPL Project Director: Paul Hartnett

Project Location: Site 17 Project Manager: Ann Baker

Sampler Signature: Jeff McCann Project No.: 610057-2-17

No. coolers this shipment: Contractor COC #

Carrier: Quote #:

Airbill No. P.O. No:

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of CONTAINERS Total	BTEX (8030/8020-602)	TPH (418.1)	Please Hold	LAB ONLY ID #
1	B17-2 (5-6')	4/2/97	1232	5-6	X			X	4oz	G	X		B17-2 (5-6')	1		X		1
2																		2
3																		3
4																		4
5																		5
6																		6
7																		7
8																		8
9																		9
10																		10

Unl Dies Ker Unknown

Waste Oil

PIT No: Tank No:

Turn-around: ASAP / 24 hrs / 48 hrs / Standard

Remarks

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Jeff McCann	4/14/97	1715	Ann D Baker	4/14/97	1715
Ann D Baker	4/14/97	1720			
			Received For Laboratory by: Cristina	4/14/97	17:20

Remarks

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71051

K.E.I. Consultants, Inc.

Project Name: Monument

Project ID: 610057 Site #17
Project Manager: Ann Baker
Project Location: Site #17

Date Received in Lab: May 6, 1997 10:00 by RT
Date Report Faxed: May 22, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	171051-001	171051-002	171051-003			
	Field ID:	MW-1	MW-2	MW-3			
	Depth:						
Metals (ICP) Analyzed by EPA 6010		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		May 13, 1997	May 13, 1997	May 13, 1997			
Aluminum		21.2	8.07	2.36			
Arsenic		< 0.05	< 0.05	< 0.05			
Barium		0.75	0.64	0.35			
Beryllium		< 0.005	< 0.005	< 0.005			
Cadmium		< 0.01	< 0.01	< 0.01			
Calcium		1170	743	279			
Chromium		< 0.05	< 0.05	< 0.05			
Cobalt		< 0.10	< 0.10	< 0.10			
Iron		13.4	5.92	1.69			
Lead		< 0.05	< 0.05	< 0.05			
Magnesium		40.0	32.9	26.3			
Manganese		0.29	0.21	< 0.20			
Molybdenum		< 0.20	< 0.20	< 0.20			
Potassium		7.84	5.95	4.89			
Silver		< 0.02	< 0.02	< 0.02			
Sodium		80.7	69.7	95.8			
Tin		5.53	2.16	0.65			
Vanadium		0.05	< 0.05	< 0.05			
Zinc		< 0.25	< 0.25	< 0.25			
Nickel		< 0.10	< 0.10	< 0.10			
Copper		< 0.25	< 0.25	< 0.25			
Boron		< 0.25	< 0.25	< 0.25			
Silicon		24.5	12.9	13.3			
Strontium		2.16	1.69	1.30			

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71051

K.E.I. Consultants, Inc.

Project Name: Monument

Project ID: 610057 Site #17
Project Manager: Ann Baker
Project Location: Site #17

Date Received in Lab: May 6, 1997 10:00 by RT
Date Report Faxed: May 22, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	171051-001	171051-002	171051-003			
	Field ID:	MW-1	MW-2	MW-3			
	Depth:						
Mercury, Tot Analyzed by EPA 7470		Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)
		May 12, 1997	May 12, 1997	May 12, 1997			
Mercury		< 0.0010	< 0.0010	< 0.0010			
BTEX Analyzed by EPA 8020		Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)
		May 9, 1997	May 9, 1997	May 9, 1997			
Benzene		< 0.001	< 0.001	0.685			
Toluene		< 0.001	< 0.001	< 0.005			
Ethylbenzene		< 0.001	< 0.001	0.071			
m,p-Xylenes		< 0.002	< 0.002	0.016			
o-Xylene		< 0.001	< 0.001	< 0.005			
Total BTEX		< 0.006	< 0.006	0.772			
PAH Analyzed by EPA 8100		Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)
		May 15, 1997	May 15, 1997	May 15, 1997			
Acenaphthene		< 0.002	< 0.002	< 0.002			
Acenaphthylene		< 0.002	< 0.002	< 0.002			
Anthracene		< 0.002	< 0.002	< 0.002			
Benzo(a)anthracene		< 0.002	< 0.002	< 0.002			
Benzo(a)pyrene		< 0.002	< 0.002	< 0.002			
Benzo(b)fluoranthene		< 0.002	< 0.002	< 0.002			
Benzo(g,h,i)perylene		< 0.002	< 0.002	< 0.002			
Benzo(k)fluoranthene		< 0.002	< 0.002	< 0.002			
Chrysene		< 0.002	< 0.002	< 0.002			
Dibenzo(a,e)pyrene		< 0.002	< 0.002	< 0.002			
Dibenzo(a,h)anthracene		< 0.002	< 0.002	< 0.002			
Dibenz(a,j)acridine		< 0.002	< 0.002	< 0.002			
Fluoranthene		< 0.002	< 0.002	< 0.002			
Fluorene		< 0.002	< 0.002	< 0.002			

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71051

K.E.I. Consultants, Inc.

Project Name: Monument

Project ID: 610057 Site #17
Project Manager: Ann Baker
Project Location: Site #17

Date Received in Lab: May 6, 1997 10:00 by RT
Date Report Faxed: May 22, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth:	171051-001 MW-1	171051-002 MW-2	171051-003 MW-3			
Indeno(1,2,3-cd)pyrene		< 0.002	< 0.002	< 0.002			
3-Methylcholanthrene		< 0.002	< 0.002	< 0.002			
Naphthalene		< 0.002	< 0.002	< 0.002			
Phenanthrene		< 0.002	< 0.002	< 0.002			
Pyrene		< 0.002	< 0.002	< 0.002			
Dibenz(a,h)acridine		< 0.002	< 0.002	< 0.002			
Benzo(j)fluoranthene		< 0.002	< 0.002	< 0.002			
7H-Dibenzo(c,g)carbazole		< 0.002	< 0.002	< 0.002			
Dibenzo(a,h)pyrene		< 0.002	< 0.002	< 0.002			
Dibenzo(a,i)pyrene		< 0.002	< 0.002	< 0.002			
Bicarbonate Analyzed by SM 4500CO2D		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		May 10, 1997	May 10, 1997	May 10, 1997			
Bicarbonate		319	307	315			
Carbonate Analyzed by SM4500CO2D		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		May 10, 1997	May 10, 1997	May 10, 1997			
Carbonate		< 1.0	1.0	1.3			
TDS Analyzed by EPA 160.1		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		May 9, 1997	May 9, 1997	May 9, 1997			
Total Dissolved Solids		786	820	816			
Anions Analyzed by EPA 300.0		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		May 8, 1997	May 8, 1997	May 8, 1997			
Sulfate		70.0	62.0	63.2			
Chloride		152	158	174			
TIC Mod. Analyzed by Mod. 415.1		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		May 14, 1997	May 14, 1997	May 14, 1997			

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71051

K.E.I. Consultants, Inc.

Project Name: Monument

Project ID: 610057 Site #17
Project Manager: Ann Baker
Project Location: Site #17

Date Received in Lab: May 6, 1997 10:00 by RT
Date Report Faxed: May 22, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID* / *Field ID:* / *Depth:*	171051-001 MW-1	171051-002 MW-2	171051-003 MW-3			
Total Inorganic Carbon		64.9	70.0	46.8			

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18C05

EPA 6010 Metals by ICP

Date Validated: May 15, 1997 09:00
Date Analyzed: May 13, 1997 11:30
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Aluminum	< 0.01	0.72	1.00	0.01	72.0	70-125	
Arsenic	< 0.050	0.869	1.000	0.050	86.9	70-125	
Barium	< 0.002	0.429	0.500	0.002	85.8	70-125	
Beryllium	< 0.0050	0.1808	0.2000	0.0050	90.4	70-125	
Boron	< 0.03	1.20	1.56	0.03	76.9	70-125	
Cadmium	< 0.010	0.162	0.200	0.010	81.0	70-125	
Calcium	< 0.01	1.82	2.00	0.01	91.0	70-125	
Chromium	< 0.013	0.433	0.500	0.013	86.6	70-125	
Cobalt	< 0.003	0.423	0.500	0.003	84.6	70-125	
Copper	< 0.008	0.443	0.500	0.008	88.6	70-125	
Iron	< 0.006	0.814	1.000	0.006	81.4	70-125	
Lead	< 0.03	0.85	1.00	0.03	85.0	70-125	
Magnesium	< 0.01	1.79	2.00	0.01	89.5	70-125	
Nickel	< 0.03	0.46	0.50	0.03	92.0	70-125	
Potassium	< 0.0250	2.1275	2.0000	0.0250	106.4	70-125	
Silver	< 0.010	0.334	0.400	0.010	83.5	70-125	
Sodium	< 0.0250	1.8363	2.0000	0.0250	91.8	70-125	
Strontium	< 0.025	1.171	1.560	0.025	75.1	70-125	
Vanadium	< 0.00	0.44	0.50	0.00	88.0	70-125	
Zinc	< 0.008	0.431	0.500	0.008	86.2	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18C05

EPA 6010 Metals by ICP

Date Validated: May 15, 1997 09:00
Date Analyzed: May 13, 1997 19:46
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 171051- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Aluminum	21.16	16.94	0.01	22.2	25.0	
Arsenic	< 0.050	< 0.050	0.050	N.C	25.0	
Barium	0.746	0.766	0.002	2.6	25.0	
Beryllium	< 0.0050	< 0.0050	0.0050	N.C	25.0	
Boron	0.148	0.139	0.025	6.3	25.0	
Cadmium	< 0.010	< 0.010	0.010	N.C	25.0	
Calcium	1170	1110	0.01	5.3	25.0	
Chromium	0.039	0.039	0.013	0.0	25.0	
Cobalt	0.011	0.013	0.003	16.7	25.0	
Copper	0.014	0.014	0.008	0.0	25.0	
Iron	13.43	13.26	0.01	1.3	25.0	
Lead	< 0.025	< 0.025	0.025	N.C	25.0	
Magnesium	39.95	37.77	0.01	5.6	25.0	
Manganese	0.291	0.300	0.006	3.0	25.0	
Molybdenum	< 0.025	< 0.025	0.025	N.C	25.0	
Nickel	< 0.025	0.157	0.025	N.C	25.0	
Potassium	7.841	7.730	0.025	1.4	25.0	
Silicon	24.49	16.18	0.03	40.9	25.0	A
Silver	< 0.010	< 0.010	0.010	N.C	25.0	

(A) Variability in duplicate measurement attributed to sample non-homogeneity.
Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18C05

EPA 6010 Metals by ICP

Date Validated: May 15, 1997 09:00
Date Analyzed: May 13, 1997 19:46
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 171051- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Sodium	80.69	76.85	0.03	4.9	25.0	
Strontium	2.164	2.036	0.025	6.1	25.0	
Tin	5.533	5.160	0.025	7.0	25.0	
Vanadium	0.054	0.058	0.003	7.1	25.0	
Zinc	0.090	0.087	0.008	3.4	25.0	

(A) Variability in duplicate measurement attributed to sample non-homogeneity.
Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18C05

EPA 6010 Metals by ICP

Date Validated: May 15, 1997 09:00
Date Analyzed: May 13, 1997 11:30
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

Q.C. Sample ID 171046- 001	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[G]
				QC	LIMITS			QC	LIMITS	
Parameter	Sample Result mg/L	Duplicate Result mg/L	Method Detection Limit mg/L	Relative Difference %	Relative Difference %	Matrix Spike Result mg/L	Matrix Spike Amount mg/L	Matrix Spike Recovery %	Recovery Range %	Qualifier
Aluminum	30.68	30.75	0.01	0.2	25.0	40.7	12.5	79.8	70-125	
Arsenic	< 0.050	< 0.050	0.050	N.C	25.0	0.89	1.00	88.7	70-125	
Barium	1.031	1.233	0.002	17.8	25.0	1.25	0.50	44.6	70-125	B
Beryllium	< 0.0050	< 0.0050	0.0050	N.C	25.0	0.179	0.200	89.3	70-125	
Boron	0.173	0.178	0.025	2.8	25.0	2.51	3.13	74.8	70-125	
Cadmium	< 0.010	< 0.010	0.010	N.C	25.0	0.16	0.20	79.5	70-125	
Calcium	114	134	0.01	16.1	25.0	133	12.5	152.0	70-125	A,B
Chromium	0.031	0.030	0.013	3.3	25.0	0.44	0.50	81.0	70-125	
Cobalt	0.037	0.032	0.003	14.5	25.0	0.39	0.50	69.8	70-125	B
Copper	0.026	0.030	0.008	14.3	25.0	0.46	0.50	86.8	70-125	
Iron	38.92	37.58	0.01	3.5	25.0	45.1	12.5	49.5	70-125	A,B
Lead	< 0.025	< 0.025	0.025	N.C	25.0	0.80	1.00	80.2	70-125	
Magnesium	21.29	23.91	0.01	11.6	25.0	31.9	12.5	85.0	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18C05

EPA 6010 Metals by ICP

Date Validated: May 15, 1997 09:00
Date Analyzed: May 13, 1997 11:30
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

Q.C. Sample ID 171046- 001	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[G]
				QC	LIMITS			QC	LIMITS	
Parameter	Sample Result mg/L	Duplicate Result mg/L	Method Detection Limit mg/L	Relative Difference %	Relative Difference %	Matrix Spike Result mg/L	Matrix Spike Amount mg/L	Matrix Spike Recovery %	Recovery Range %	Qualifier
Manganese	1.263	1.503	0.006	17.4	25.0	12.16	12.50	87.2	70-125	
Molybdenum	< 0.025	< 0.025	0.025	N.C	25.0	0.55	0.63	88.6	70-125	
Nickel	< 0.025	< 0.025	0.025	N.C	25.0	0.40	0.50	80.2	70-125	
Potassium	7.715	8.064	0.025	4.4	25.0	19.08	12.50	90.9	70-125	
Silver	< 0.010	< 0.010	0.010	N.C	25.0	0.33	0.40	81.3	70-125	
Sodium	56.80	67.17	0.03	16.7	25.0	72.3	12.5	123.7	70-125	
Strontium	0.921	1.095	0.025	17.3	25.0	3.05	3.13	68.1	70-125	B
Vanadium	0.128	0.142	0.003	10.4	25.0	0.51	0.50	77.2	70-125	
Zinc	0.180	0.201	0.008	11.0	25.0	0.57	0.50	78.6	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05B25

SW846- 7470 Total Mercury

Date Validated: May 15, 1997 14:15
Date Analyzed: May 12, 1997 13:22
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 171051- 002	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0.0010	< 0.0010	0.0010	N.C	25.0	0.0025	0.0025	100.0	70-125	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05B25

SW846- 7470 Total Mercury

Date Validated: May 15, 1997 14:15
Date Analyzed: May 12, 1997 12:58
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 171047- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC LIMITS Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0.0010	< 0.0010	0.0010	N.C	25.0	0.0026	0.0025	104.0	70-125	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05B25

SW846- 7470 Total Mercury

Date Validated: May 15, 1997 14:15
Date Analyzed: May 12, 1997 12:55
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Mercury	< 0.0010	0.0022	0.0025	0.0010	88.0	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A04B61

SW- 846 5030/8020 BTEX

Date Validated: May 12, 1997 14:50
Date Analyzed: May 9, 1997 10:17
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: IF
Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1130	0.1000	0.0010	113.0	65-135	
Toluene	< 0.0010	0.1160	0.1000	0.0010	116.0	65-135	
Ethylbenzene	< 0.0010	0.1170	0.1000	0.0010	117.0	65-135	
m,p-Xylenes	< 0.0020	0.2410	0.2000	0.0020	120.5	65-135	
o-Xylene	< 0.0010	0.1150	0.1000	0.0010	115.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A04B61

SW- 846 5030/8020 BTEX

Date Validated: May 12, 1997 14:50
Date Analyzed: May 9, 1997 13:42
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: IF
Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 171048- 001 / Parameter	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Method Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Benzene	< 0.0010	0.0868	0.0864	0.1000	0.0010	25.0	0.5	86.8	86.4	65-135	
Toluene	< 0.0010	0.1160	0.1120	0.1000	0.0010	25.0	3.5	116.0	112.0	65-135	
Ethylbenzene	< 0.0010	0.1180	0.1130	0.1000	0.0010	25.0	4.3	118.0	113.0	65-135	
m,p-Xylenes	< 0.0020	0.2420	0.2330	0.2000	0.0020	25.0	3.8	121.0	116.5	65-135	
o-Xylene	< 0.0010	0.1160	0.1120	0.1000	0.0010	25.0	3.5	116.0	112.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A34B35

SW-846 8100 PAHs by GC-MS

Date Validated: May 15, 1997 17:56
Date Analyzed: May 14, 1997 22:20
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: MM
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Acenaphthene	< 0.0020	0.0658	0.0670	0.1000	0.0020	31.0	1.8	65.8	67.0	46-118	
4-Chloro-3-Methylphenol	< 0.0020	0.0398	0.0332	0.1000	0.0020	42.0	18.1	39.8	33.2	23-97	
2-Chlorophenol	< 0.0020	0.0630	0.0644	0.1000	0.0020	40.0	2.2	63.0	64.4	27-123	
1,4-Dichlorobenzene	< 0.0020	0.0702	0.0724	0.1000	0.0020	28.0	3.1	70.2	72.4	36-97	
2,4-Dinitrotoluene	< 0.0020	0.0628	0.0632	0.1000	0.0020	38.0	0.6	62.8	63.2	24-96	
N-Nitroso-di-n-propylamine	< 0.0040	0.0742	0.0738	0.1000	0.0040	38.0	0.5	74.2	73.8	41-116	
4-Nitrophenol	< 0.0040	0.0250	0.0248	0.1000	0.0040	50.5	0.8	25.0	24.8	10-80	
Pentachlorophenol	< 0.0010	0.0738	0.0706	0.1000	0.0010	50.0	4.4	73.8	70.6	9-103	
Phenol	< 0.0010	0.0222	0.0224	0.1000	0.0010	42.0	0.9	22.2	22.4	12-89	
Pyrene	< 0.0020	0.0852	0.0840	0.1000	0.0020	31.0	1.4	85.2	84.0	26-127	
1,2,4-Trichlorobenzene	< 0.0010	0.0736	0.0714	0.1000	0.0010	28.0	3.0	73.6	71.4	39-98	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A20A24

SM4500CO2D Carbonate

Date Validated: May 14, 1997 15:30
Date Analyzed: May 10, 1997 09:20
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CG
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 171047- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	ppm	ppm	ppm	%	%	
Carbonate	< 1.00	< 1.00	1.00	N.C	25.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A20A22

SM 4500CO2D Bicarbonate

Date Validated: May 14, 1997 15:30
Date Analyzed: May 10, 1997 09:20
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CG
Matrix: Liquid

MATRIX DUPLICATE ANALYSIS

Q.C. Sample ID 171047- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Bicarbonate	127	127	0.5	0.0	25.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A19A95

EPA 160.1 Total Dissolved Solids

Date Validated: May 9, 1997 13:45
Date Analyzed: May 9, 1997 09:40
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CG
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 171046- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Total Dissolved Solids	526	504	4.0	4.3	25.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A10A40

EPA 300.0 Anions by Ion Chromatography

Date Validated: May 9, 1997 12:00
Date Analyzed: May 8, 1997 12:55
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: JS
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 171046- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Chloride	72.400	75.900	0.050	4.7	20.0	
Sulfate	59.60	62.30	0.10	4.4	20.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A10A40

EPA 300.0 Anions by Ion Chromatography

Date Validated: May 9, 1997 12:00
Date Analyzed: May 8, 1997 12:23
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: JS
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Chloride	< 0.050	5.070	5.090	5.000	0.050	20.0	0.4	101.4	101.8	70-125	
Sulfate	< 0.10	4.97	5.06	5.00	0.10	20.0	1.8	99.4	101.2	70-125	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17Z99A23

MOD. 415.1 Total Inorganic Carbon

Date Validated: May 19, 1997 09:00
Date Analyzed: May 14, 1997 09:22
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: IF
Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC LIMITS Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Total Inorganic Carbon	< 1.0	20.6	20.0	1.0	103.0	70-120	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17Z99A23

MOD. 415.1 Total Inorganic Carbon

Date Validated: May 19, 1997 09:00
Date Analyzed: May 14, 1997 11:41
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: IF
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 171049- 002	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC LIMITS Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	ppm	ppm	ppm	%	%	ppm	ppm	%	%	
Total Inorganic Carbon	56.61	55.44	1.00	2.1	20.0	74.6	20.0	90.0	70-120	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610057 Site #17
Project Manager: Ann Baker
Project Location: Site #17

Project Name: Monument

XENCO COC#: 1-71051
Date Received in Lab: May 6, 1997 10:00 by RT
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	MW-1	171051-001	BTEX	SW-846	ppm	Standard	May 2, 1997 13:45		May 9, 1997 by IF	May 9, 1997 16:04 by IF
2			PAH	SW-846 8100	mg/L	Standard	May 2, 1997 13:45		May 9, 1997 by CY	May 15, 1997 07:35 by MM
3			TDS	EPA 160.1	mg/L	Standard	May 2, 1997 13:45		May 8, 1997 by CG	May 9, 1997 10:30 by CG
4			Anions	EPA 300.0	mg/L	Standard	May 2, 1997 13:45		May 8, 1997 by JS	May 8, 1997 15:45 by JS
5			Carbonate	SM4500CO2D	ppm	Standard	May 2, 1997 13:45		May 10, 1997 by CG	May 10, 1997 10:05 by CG
6			Bicarbonate	SM 4500CO2D	mg/L	Standard	May 2, 1997 13:45		May 10, 1997 by CG	May 10, 1997 10:05 by CG
7			Metals (ICP)	EPA 6010	mg/L	Standard	May 2, 1997 13:45		May 9, 1997 by EZ	May 13, 1997 19:46 by SA
8			Mercury, Tot	SW846-7470	mg/L	Standard	May 2, 1997 13:45		May 9, 1997 by EZ	May 12, 1997 13:28 by EZ
9			TIC Mod.	MOD. 415.1	ppm	Standard	May 2, 1997 13:45		May 14, 1997 by IF	May 14, 1997 13:54 by IF
10	MW-2	171051-002	BTEX	SW-846	ppm	Standard	May 2, 1997 13:55		May 9, 1997 by IF	May 9, 1997 16:22 by IF
11			PAH	SW-846 8100	mg/L	Standard	May 2, 1997 13:55		May 9, 1997 by CY	May 15, 1997 08:21 by MM
12			TDS	EPA 160.1	mg/L	Standard	May 2, 1997 13:55		May 8, 1997 by CG	May 9, 1997 10:35 by CG
13			Anions	EPA 300.0	mg/L	Standard	May 2, 1997 13:55		May 8, 1997 by JS	May 8, 1997 15:53 by JS
14			Carbonate	SM4500CO2D	ppm	Standard	May 2, 1997 13:55		May 10, 1997 by CG	May 10, 1997 10:10 by CG
15			Bicarbonate	SM 4500CO2D	mg/L	Standard	May 2, 1997 13:55		May 10, 1997 by CG	May 10, 1997 10:10 by CG
16			Metals (ICP)	EPA 6010	mg/L	Standard	May 2, 1997 13:55		May 9, 1997 by EZ	May 13, 1997 20:07 by SA
17			Mercury, Tot	SW846-7470	mg/L	Standard	May 2, 1997 13:55		May 9, 1997 by EZ	May 12, 1997 13:20 by EZ
18			TIC Mod.	MOD. 415.1	ppm	Standard	May 2, 1997 13:55		May 14, 1997 by IF	May 14, 1997 14:02 by IF
19	MW-3	171051-003	BTEX	SW-846	ppm	Standard	May 2, 1997 14:05		May 9, 1997 by IF	May 9, 1997 17:17 by IF
20			PAH	SW-846 8100	mg/L	Standard	May 2, 1997 14:05		May 9, 1997 by CY	May 15, 1997 09:06 by MM
21			TDS	EPA 160.1	mg/L	Standard	May 2, 1997 14:05		May 8, 1997 by CG	May 9, 1997 10:40 by CG
22			Anions	EPA 300.0	mg/L	Standard	May 2, 1997 14:05		May 8, 1997 by JS	May 8, 1997 16:00 by JS
23			Carbonate	SM4500CO2D	ppm	Standard	May 2, 1997 14:05		May 10, 1997 by CG	May 10, 1997 10:15 by CG
24			Bicarbonate	SM 4500CO2D	mg/L	Standard	May 2, 1997 14:05		May 10, 1997 by CG	May 10, 1997 10:15 by CG
25			Metals (ICP)	EPA 6010	mg/L	Standard	May 2, 1997 14:05		May 9, 1997 by EZ	May 13, 1997 20:14 by SA
26			Mercury, Tot	SW846-7470	mg/L	Standard	May 2, 1997 14:05		May 9, 1997 by EZ	May 12, 1997 13:28 by EZ
27			TIC Mod.	MOD. 415.1	ppm	Standard	May 2, 1997 14:05		May 14, 1997 by IF	May 14, 1997 14:09 by IF

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page / of /

Lab. Batch # 171051-H

Contractor: KEI Consultants | Phone (800) 253-0507

Address: 4800 Wurzbach Drive Suite 100 San Antonio, Tx

Project Name: Monument | Project Director: Paul Hartnet

Project Location: Site #17 | Project Manager: Ann Baker

Sampler Signature: | Project No.: 610057 site #17

No. coolers this shipment: | Contractor COC #

Carrier: UPS | Quote #:

Airbill No. | P.O. No.:

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of CONTAINERS Total	BTEX (5030/8020-602)	TPH (418.1)	HEAVY METALS	PAH (8100)	TDS (160.1)	CATIONS / ANIONS	Please Hold	Remarks	LAB ONLY ID #
1	MW-1	5-2-97	1345			X								7	X	X	X	X	X	X			1
2	MW-2	5-2-97	1355			X								7	X	X	X	X	X	X			2
3	MW-3	5-2-97	1405			X								7	X	X	X	X	X	X			3
4																							4
5																							5
6																							6
7																							7
8																							8
9																							9
10																							10

Unl Dies Ker Unknown

Waste Oil

PIT No: Tank No:

Turn-around: ASAP | 24 hrs | 48 hrs | Standard

Remarks

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	5-5-97	0600			
			Received For Laboratory by	5-6-97	1000

Remarks

White (Contractor) Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

ANALYTICAL REPORT 1-80281

for

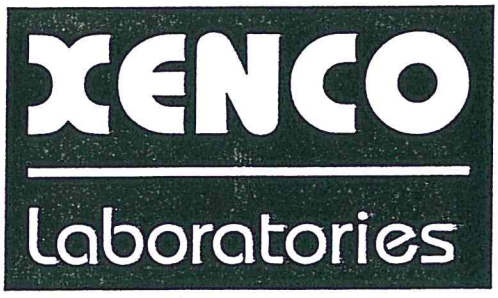
K.E.I. Consultants, Inc.

Project Manager: Theresa Nix

Project Name: TNMPL

Project Id: 610057

January 29, 1998



HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
Phone (281) 589-0692 Fax (281) 589-0695

XENCO Laboratories
11381 Meadowglen Suite L
Houston, Texas 77082-2647
(281) 589-0692 Fax: (281) 589-0695
Houston - Dallas - San Antonio

January 29, 1998

Project Manager: Theresa Nix
K.E.I. Consultants, Inc.
5309 Wurzbach Rd. Suite 100
San Antonio, TX 78238

Reference: **XENCO Report No.: 1-80281**
Project Name: TNMPL
Project ID: 610057
Project Address: Monument Site 17

Dear Theresa Nix:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-80281. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, and completeness.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-80281 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO Laboratories is accredited by the American Association for Laboratory Accreditation (A2LA) for technical competence in the field of Environmental Testing (Certificate No. 0343-01). In accordance with A2LA's guidelines, XENCO operates a Quality System that meets ISO/IEC Guide 25 requirements and is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Eddie Yonemoto, Ph.D.
QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified in California, Oklahoma, Kansas, Arkansas, and approved by numerous other States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY!

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-80281

K.E.I. Consultants, Inc.

Project ID: 610057
Project Name: TNMPL
Date Received in Lab : Jan 24, 1998 11:11
Project Manager: Theresa Nix
Date Report Faxed: Jan 29, 1998
Project Location: Monument Site 17
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	180281 001 MW-4 5-7 Solid 01/22/98	180281 002 MW-4 10-12 Solid 01/22/98	180281 003 MW-4 17-19 Solid 01/22/98	180281 004 MW-5 5-6 Solid 01/22/98	180281 005 MW-5 10-11 Solid 01/22/98	180281 006 MW-5 16-18 Solid 01/22/98
TPH-DRO (Diesel) EPA 8015 M	*Analyzed:* / *Units:*	01/27/98 mg/kg R.L.	01/27/98 mg/kg R.L.	01/27/98 mg/kg R.L.	01/27/98 mg/kg R.L.	01/27/98 mg/kg R.L.	01/27/98 mg/kg R.L.
Total Petroleum Hydrocarbons		31.3 (10.0)	61.8 (10.0)	28.4 (10.0)	57.2 (10.0)	37.9 (10.0)	79.1 (10.0)
BTEX EPA 8020	*Analyzed:* / *Units:*	01/28/98 ppm R.L.	01/28/98 ppm R.L.	01/28/98 ppm R.L.	01/28/98 ppm R.L.	01/28/98 ppm R.L.	01/28/98 ppm R.L.
Benzene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)
Toluene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)
Ethylbenzene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)
m,p-Xylenes		< 0.040 (0.040)	< 0.040 (0.040)	< 0.040 (0.040)	< 0.040 (0.040)	< 0.040 (0.040)	< 0.040 (0.040)
o-Xylene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)
Total BTEX		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25A31

SW- 846 5030/8020 BTEX

Date Validated: Jan 28, 1998 18:00
Date Analyzed: Jan 28, 1998 10:16
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 180279- 001	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	[J]
	Sample Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Spike Amount	Method Detection Limit	Limit Relative Difference	QC Spike Relative Difference	QC Matrix Spike Recovery	QC M.S.D. Recovery	Matrix Spike Recovery Range	Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.020	1.928	1.938	2.000	0.020	25.0	0.5	96.4	96.9	65-135	
Toluene	< 0.020	1.904	1.894	2.000	0.020	25.0	0.5	95.2	94.7	65-135	
Ethylbenzene	< 0.020	1.948	1.968	2.000	0.020	25.0	1.0	97.4	98.4	65-135	
m,p-Xylenes	< 0.040	4.240	4.300	4.000	0.040	25.0	1.4	106.0	107.5	65-135	
o-Xylene	< 0.020	1.910	1.948	2.000	0.020	25.0	2.0	95.5	97.4	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25A31

SW- 846 5030/8020 BTEX

Date Validated: Jan 28, 1998 18:00
Date Analyzed: Jan 28, 1998 09:20
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Solid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.0945	0.1000	0.0010	94.5	65-135	
Toluene	< 0.0010	0.0930	0.1000	0.0010	93.0	65-135	
Ethylbenzene	< 0.0010	0.0961	0.1000	0.0010	96.1	65-135	
m,p-Xylenes	< 0.0020	0.2050	0.2000	0.0020	102.5	65-135	
o-Xylene	< 0.0010	0.0930	0.1000	0.0010	93.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18Z99A14

SW- 846 8015 M TPH- DRO (Diesel)

Date Validated: Jan 30, 1998 14:10
Date Analyzed: Jan 27, 1998 06:00
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OR
Matrix: Solid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/kg	[B] Blank Spike Result mg/kg	[C] Blank Spike Amount mg/kg	[D] Method Detection Limit mg/kg	[E] QC LIMITS Blank Spike Recovery %	[F] Recovery Range %	[G] Qualifier
Total Petroleum Hydrocarbons	< 10.00	240	200	10.00	120.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18Z99A14

SW- 846 8015 M TPH- DRO (Diesel)

Date Validated: Jan 30, 1998 14:10
Date Analyzed: Jan 27, 1998 03:48
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OR
Matrix: Solid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 180280- 008	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Method Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	%	
Total Petroleum Hydrocarbons	< 10.00	299	342	400	10.00	30.0	13.4	74.8	85.5	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18Z99A15

SW- 846 8015 M TPH- DRO (Diesel)

Date Validated: Jan 30, 1998 16:45
Date Analyzed: Jan 27, 1998 06:09
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OR
Matrix: Solid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/kg	[B] Blank Spike Result mg/kg	[C] Blank Spike Amount mg/kg	[D] Method Detection Limit mg/kg	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Total Petroleum Hydrocarbons	< 10.00	232	200	10.00	116.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18Z99A15

SW- 846 8015 M TPH- DRO (Diesel)

Date Validated: Jan 30, 1998 16:45
Date Analyzed: Jan 27, 1998 11:08
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OR
Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 180281- 001 / Parameter	[A] Sample Result mg/kg	[B] Matrix Spike Result mg/kg	[C] Matrix Spike Duplicate Result mg/kg	[D] Matrix Spike Amount mg/kg	[E] Method Detection Limit mg/kg	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Total Petroleum Hydrocarbons	31.26	341	361	400	10.00	30.0	5.7	77.4	82.4	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610057
Project Manager: Theresa Nix
Project Location: Monument Site 17

Project Name: TNMPL

XENCO COC#: 1-80281
Date Received in Lab: Jan 24, 1998 11:11 by CC
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	MW-4 / 5-7	180281-001	BTEX	SW-846	ppm	7 days	Jan 22, 1998		Jan 28, 1998 by HL	Jan 28, 1998 14:23 by HL
2			TPH8015M-D	SW-846 8015 M	mg/kg	7 days	Jan 22, 1998		Jan 26, 1998 by SS	Jan 27, 1998 11:08 by OR
3	MW-4 / 10-12	180281-002	BTEX	SW-846	ppm	7 days	Jan 22, 1998		Jan 28, 1998 by HL	Jan 28, 1998 14:42 by HL
4			TPH8015M-D	SW-846 8015 M	mg/kg	7 days	Jan 22, 1998		Jan 26, 1998 by SS	Jan 27, 1998 11:35 by OR
5	MW-4 / 17-19	180281-003	BTEX	SW-846	ppm	7 days	Jan 22, 1998		Jan 28, 1998 by HL	Jan 28, 1998 15:02 by HL
6			TPH8015M-D	SW-846 8015 M	mg/kg	7 days	Jan 22, 1998		Jan 26, 1998 by SS	Jan 27, 1998 12:02 by OR
7	MW-5 / 5-6	180281-004	BTEX	SW-846	ppm	7 days	Jan 22, 1998		Jan 28, 1998 by HL	Jan 28, 1998 15:21 by HL
8			TPH8015M-D	SW-846 8015 M	mg/kg	7 days	Jan 22, 1998		Jan 26, 1998 by SS	Jan 27, 1998 12:30 by OR
9	MW-5 / 10-11	180281-005	BTEX	SW-846	ppm	7 days	Jan 22, 1998		Jan 28, 1998 by HL	Jan 28, 1998 15:40 by HL
10			TPH8015M-D	SW-846 8015 M	mg/kg	7 days	Jan 22, 1998		Jan 26, 1998 by SS	Jan 27, 1998 12:57 by OR
11	MW-5 / 16-18	180281-006	BTEX	SW-846	ppm	7 days	Jan 22, 1998		Jan 28, 1998 by HL	Jan 28, 1998 17:16 by HL
12			TPH8015M-D	SW-846 8015 M	mg/kg	7 days	Jan 22, 1998		Jan 26, 1998 by SS	Jan 27, 1998 13:24 by OR

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 180281-SA

Contractor: KEI Consultants — Phone (800) 253-0507

Address: 5309 Wurzbach Suite 100 San Antonio, Tx 78238

Project Name: — Project Director: Mike Hawthorne

Project Location: Monument Site 17 — Project Manager: Theresa Nix

Sampler Signature: — Project No.: 610057

No. coolers this shipment: — Contractor COC #

Carrier: — Quote #:

Airbill No. — P.O. No:

Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of Containers Total	BTEX (5030/8020-602)	TPH (8015 DRO)	SPLP TPH	SPLP SVOC	SPLP VOC	Please Hold	Remarks	LAB ONLY ID #
1 MW-4	1-22-98		5-7					9oz	G				1								1
2 MW-4	1-22-98		10-12										1								2
3 MW-4	1-22-98		17-19										1								3
4 MW-5	1-22-98		5-7										1								4
5 MW-5	1-22-98		10-11										1								5
6 MW-5	1-22-98		16-18										1								6
7																					7
8																					8
9																					9
10																					10

SAMPLE CHARACTERIZATION: Unl Dies Ker Unknown; Waste Oil; PIT No: Tank No:

Turn-around: * ASAP; * 24 hrs; 48 hrs; Standard

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	1-23-98	1100			
			Received For Laboratory by	1-24-98	11:11

Remarks: Sample w/ highest TPH 8015 ran SPLP TPH SVOC VOC (via UPS)

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-80691

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0 *Project Name: Monument Site #17* **Date Received in Lab :** Feb 23, 1998 09:30
Project Manager: Theresa Nix **Date Report Faxed:** Mar 24, 1998
Project Location: Monument, NM **XENCO contact :** Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	180691 001 MW-1 Liquid 02/19/98 12:32	180691 002 MW-2 Liquid 02/19/98 12:18	180691 003 MW-3 Liquid 02/19/98 13:00	180691 004 MW-4 Liquid 02/19/98 12:41	180691 005 MW-5 Liquid 02/19/98 13:10
Metals by ICP EPA 6010	*Analyzed:* / *Units:*				03/10/98 mg/L R.L.	03/10/98 mg/L R.L.
Aluminum					< 0.56 (0.56)	< 0.56 (0.56)
Barium					0.12 (0.09)	0.16 (0.09)
Beryllium					< 0.022 (0.022)	< 0.022 (0.022)
Boron					< 0.22 (0.22)	< 0.22 (0.22)
Calcium					128 (2.2)	110 (2.2)
Chromium					< 0.05 (0.05)	< 0.05 (0.05)
Cobalt					< 0.05 (0.05)	< 0.05 (0.05)
Copper					< 0.11 (0.11)	< 0.11 (0.11)
Iron					< 0.22 (0.22)	< 0.11 (0.11)
Magnesium					19.1 (0.2)	23.1 (0.2)
Manganese					< 0.06 (0.06)	0.19 (0.06)
Molybdenum					< 0.56 (0.56)	< 0.56 (0.56)
Nickel					< 0.11 (0.11)	< 0.11 (0.11)
Potassium					3.86 (1.11)	5.21 (1.11)
Silicon					22.7 (0.2)	22.2 (0.2)
Silver					< 0.05 (0.05)	< 0.05 (0.05)
Sodium					65.4 (2.2)	87.9 (2.2)
Strontium					1.20 (0.22)	1.42 (0.22)
Tin					< 0.22 (0.22)	< 0.22 (0.22)
Vanadium					< 0.11 (0.11)	< 0.11 (0.11)
Zinc					< 0.56 (0.56)	< 0.56 (0.56)
RCRA Metals EPA 6010	*Analyzed:* / *Units:*				03/18/98 mg/L R.L.	03/18/98 mg/L R.L.

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-80691

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0 | ***Project Name: Monument Site #17*** | **Date Received In Lab :** Feb 23, 1998 09:30

Project Manager: Theresa Nix | **Date Report Faxed:** Mar 24, 1998

Project Location: Monument, NM | **XENCO contact :** Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	180691 001 MW-1 Liquid 02/19/98 12:32	180691 002 MW-2 Liquid 02/19/98 12:18	180691 003 MW-3 Liquid 02/19/98 13:00	180691 004 MW-4 Liquid 02/19/98 12:41	180691 005 MW-5 Liquid 02/19/98 13:10
EPA 6010	*Analyzed:* / *Units:*				03/18/98 mg/L R.L.	03/18/98 mg/L R.L.
Arsenic					< 0.10 (0.10)	< 0.10 (0.10)
Cadmium					< 0.010 (0.010)	< 0.010 (0.010)
Lead					< 0.050 (0.050)	< 0.050 (0.050)
Selenium					< 0.050 (0.050)	< 0.050 (0.050)
Total Mercury EPA 7470	*Analyzed:* / *Units:*				02/26/98 mg/L R.L.	02/26/98 mg/L R.L.
Mercury					< 0.0011 (0.0011)	< 0.0011 (0.0011)
BTEX EPA 8020	*Analyzed:* / *Units:*	02/23/98 ppm R.L.	02/23/98 ppm R.L.	02/23/98 ppm R.L.	02/23/98 ppm R.L.	02/23/98 ppm R.L.
Benzene		0.043 (0.001)	0.174 (0.001)	0.436 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)
Toluene		0.001 (0.001)	0.066 (0.001)	0.015 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)
Ethylbenzene		0.002 (0.001)	0.047 (0.001)	0.045 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)
m,p-Xylenes		< 0.002 (0.002)	0.018 (0.002)	0.015 (0.008)	< 0.002 (0.002)	< 0.008 (0.008)
o-Xylene		< 0.001 (0.001)	0.007 (0.001)	< 0.004 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)
Total BTEX		0.046	0.312	0.511	N.D.	N.D.
PAHs by GC-MS (610 List) EPA 8270	*Analyzed:* / *Units:*				02/28/98 mg/L R.L.	02/28/98 mg/L R.L.
Acenaphthene					< 0.002 (0.002)	< 0.002 (0.002)
Acenaphthylene					< 0.002 (0.002)	< 0.002 (0.002)
Anthracene					< 0.002 (0.002)	< 0.002 (0.002)
Benzo(a)anthracene					< 0.002 (0.002)	< 0.002 (0.002)
Benzo(a)pyrene					< 0.002 (0.002)	< 0.002 (0.002)

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-80691

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Name: *Monument Site #17*
Project Manager: Theresa Nix
Project Location: Monument, NM

Date Received In Lab : Feb 23, 1998 09:30
Date Report Faxed: Mar 24, 1998
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	180691 001 MW-1 Liquid 02/19/98 12:32	180691 002 MW-2 Liquid 02/19/98 12:18	180691 003 MW-3 Liquid 02/19/98 13:00	180691 004 MW-4 Liquid 02/19/98 12:41	180691 005 MW-5 Liquid 02/19/98 13:10
EPA 8270	Analyzed: / Units:				02/28/98 mg/L R.L.	02/28/98 mg/L R.L.
Benzo(b)fluoranthene					< 0.002 (0.002)	< 0.002 (0.002)
Benzo(g,h,i)perylene					< 0.002 (0.002)	< 0.002 (0.002)
Benzo(k)fluoranthene					< 0.002 (0.002)	< 0.002 (0.002)
Chrysene					< 0.002 (0.002)	< 0.002 (0.002)
Dibenzo(a,h)anthracene					< 0.002 (0.002)	< 0.002 (0.002)
Fluoranthene					< 0.002 (0.002)	< 0.002 (0.002)
Fluorene					< 0.002 (0.002)	< 0.002 (0.002)
Indeno(1,2,3-cd)pyrene					< 0.002 (0.002)	< 0.002 (0.002)
Naphthalene					< 0.002 (0.002)	< 0.002 (0.002)
Phenanthrene					< 0.002 (0.002)	< 0.002 (0.002)
Pyrene					< 0.002 (0.002)	< 0.002 (0.002)
Bicarbonate SM 4500CO2D	Analyzed: / Units:				02/25/98 mg/L R.L.	02/25/98 mg/L R.L.
Bicarbonate					265 (1.0)	300 (1.0)
Carbonate SM4500CO2D	Analyzed: / Units:				02/25/98 ppm R.L.	02/25/98 ppm R.L.
Carbonate					< 1.0 (1.0)	< 1.0 (1.0)
Total Dissolved Solids EPA 160.1	Analyzed: / Units:				02/26/98 mg/L R.L.	02/26/98 mg/L R.L.
Total Dissolved Solids					724 (4.0)	785 (4.0)

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-80691

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Name: Monument Site #17
Project Manager: Theresa Nix
Project Location: Monument, NM

Date Received in Lab : Feb 23, 1998 09:30
Date Report Faxed: Mar 24, 1998
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	180691 001 MW-1 Liquid 02/19/98 12:32	180691 002 MW-2 Liquid 02/19/98 12:18	180691 003 MW-3 Liquid 02/19/98 13:00	180691 004 MW-4 Liquid 02/19/98 12:41	180691 005 MW-5 Liquid 02/19/98 13:10	
Anions by Ion Chromatography EPA 300.0	*Analyzed:* / *Units:*				03/02/98 mg/L R.L.	03/02/98 mg/L R.L.	
Chloride					138 (2.0)	148 (2.0)	
Sulfate					62.9 (2.0)	51.9 (2.0)	

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories
11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page / of /

Lab Batch #

Contractor: KEI Phone: 210 680-3767

Address: 5309 WURZBACH RD, STE 100

Project Name: MONUMENT SITE #17 Project Director: MIKE HAUSTINEUE

Project Location: MONUMENT, NM Project Manager: TERESA NIX

Sampler Signature: Project No.: 61057-6-17-0

No. coolers this shipment:

Carrier: UPS

Airbill No.

Contractor COC #

Quote #:

PO No.: 8641

SAMPLE CHARACTERIZATION

Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Unl Diss Ker Unknown / Waste Oil / PIT No: / Tank No: / Sample Description	No of Containers Total	EPA Method 5W 846 8020 BTEX	TPH (8015)	PAH	TCP SCAN	CATIONS/ANIONS	TDS	Please Hold	Turn-around: ASAP, 24 hrs, 48 hrs, (Standard)	Remarks	LAB ONLY ID #
1																							
2 MW-1	2 FEB 98	1232			X		X			X			2	X									1
3 MW-2		1218			X		X			X			2	X									2
4 MW-3		1300			X		X			X			2	X									3
5 MW-4		1241			X		X			X			6	X		X	X	X	X				4
6 MW-5		1310			X		X			X			6	X		X	X	X	X				5
7																							6
8																							7
9																							8
10																							9
																							10

Relinquished by	Date	Time	Received by	Date	Time
[signature]	2-20-98	1630			
			Received For Laboratory by		

Remarks: Please fax analytical to Theresa at 210-680-3763 and STAN Grover at 505-392-2065

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

Feb-21-98 17:01 TNMPL / KEI West Texas 1-915-650-0624 P.16

ANALYTICAL REPORT 1-82682

for

K.E.I. Consultants, Inc.

Project Manager: Theresa Nix

Project Name: Monument Site #17

Project Id: 610057-2-17

August 17, 1998

XENCO Laboratories

HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
Phone (281) 589-0692 Fax (281) 589-0695

XENCO Laboratories

11381 Meadowglen Suite L
Houston, Texas 77082-2647
(281) 589-0692 Fax: (281) 589-0695
Houston - Dallas - San Antonio - Latin America

August 17, 1998

Project Manager: Theresa Nix
K.E.I. Consultants, Inc.
5309 Wurzbach Rd. Suite 100
San Antonio, TX 78238

Reference: **XENCO Report No.: 1-82682**
Project Name: Monument Site #17
Project ID: 610057-2-17
Project Address: Monument, Lea Co., NM

Dear Theresa Nix:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-82682. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-82682 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO operates under the A2LA guidelines. Our Quality System meets ISO/IEC Guide 25 requirements which is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Eddie L. Clemons, II
QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY!

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Manager: Theresa Nix
Project Location: Monument, Lea Co., NM

Project Name: Monument Site #17

XENCO COC#: 1-82682
Date Received in Lab: Jul 16, 1998 09:15 by CC
XENCO contact : Carlos Castro/Eddie Clemons

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time			
							Sample Collected	Addition Requested	Extraction	Analysis
1	MW17-7 (0-2')	182682-001	TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Jul 14, 1998 09:05		Jul 27, 1998 by OG	Jul 28, 1998 00:34 by AM
2			BTEX	SW-846	ppm	10 days	Jul 14, 1998 09:05		Jul 17, 1998 by HL	Jul 17, 1998 10:04 by HL
3	MW17-7(13-15')	182682-002	TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Jul 14, 1998 10:50		Jul 27, 1998 by OG	Jul 28, 1998 13:07 by AM
4			BTEX	SW-846	ppm	10 days	Jul 14, 1998 10:50		Jul 17, 1998 by HL	Jul 17, 1998 10:20 by HL
5	MW17-7 (20-22')	182682-003	TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Jul 14, 1998 11:00		Jul 27, 1998 by OG	Jul 28, 1998 01:40 by AM
6			BTEX	SW-846	ppm	10 days	Jul 14, 1998 11:00		Jul 17, 1998 by HL	Jul 17, 1998 10:36 by HL
7	MW17-6 (0-2')	182682-004	TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Jul 14, 1998 12:35		Jul 27, 1998 by OG	Jul 28, 1998 02:13 by AM
8			BTEX	SW-846	ppm	10 days	Jul 14, 1998 12:35		Jul 17, 1998 by HL	Jul 17, 1998 10:52 by HL
9	MW17-6 (6-8')	182682-005	TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Jul 14, 1998 13:15		Jul 27, 1998 by OG	Jul 28, 1998 02:45 by AM
10			BTEX	SW-846	ppm	10 days	Jul 14, 1998 13:15		Jul 17, 1998 by HL	Jul 17, 1998 11:08 by HL
11	MW17-6 (13-15')	182682-006	TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Jul 14, 1998 14:00		Jul 27, 1998 by OG	Jul 28, 1998 03:18 by AM
12			BTEX	SW-846	ppm	10 days	Jul 14, 1998 14:00		Jul 17, 1998 by HL	Jul 17, 1998 11:24 by HL
13	MW17-8 (0-2')	182682-007	TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Jul 14, 1998 15:35		Jul 27, 1998 by OG	Jul 28, 1998 03:51 by AM
14			BTEX	SW-846	ppm	10 days	Jul 14, 1998 15:35		Jul 17, 1998 by HL	Jul 17, 1998 11:40 by HL
15	MW17-8 (2-4')	182682-008	TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Jul 14, 1998 15:45		Jul 27, 1998 by OG	Jul 28, 1998 04:23 by AM
16			BTEX	SW-846	ppm	10 days	Jul 14, 1998 15:45		Jul 17, 1998 by HL	Jul 17, 1998 11:56 by HL
17			SPLP TPH	EPA	ppm	10 days	Jul 14, 1998 15:45	Jul29,1998 15:45	Jul 31, 1998 by EZ	Jul 31, 1998 15:35 by EZ
18			VOA (8260)	EPA1312/8260	mg/kg	10 days	Jul 14, 1998 15:45	Jul29,1998 15:45	Aug 4, 1998 by CE	Aug 4, 1998 19:30 by CE
19			SPLP-SV(TCL)	SW846-1312/82	ug/L	10 days	Jul 14, 1998 15:45	Jul29,1998 15:45	Jul 31, 1998 by SS	Jul 31, 1998 19:59 by LC
20	MW17-8 (13-15')	182682-009	TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Jul 14, 1998 17:00		Jul 27, 1998 by OG	Jul 28, 1998 04:56 by AM
21			BTEX	SW-846	ppm	10 days	Jul 14, 1998 17:00		Jul 17, 1998 by HL	Jul 17, 1998 13:12 by HL

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-82682

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Name: Monument Site #17
Date Received in Lab : Jul 16, 1998 09:15

Project Manager: Theresa Nix
Date Report Faxed: Aug 17, 1998

Project Location: Monument, Lea Co., NM
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:*	182682 001	182682 002	182682 003	182682 004	182682 005	182682 006
	Field ID:	MW17-7	MW17-7	MW17-7	MW17-6	MW17-6	MW17-6
	Depth:	0'-2'	13'-15'	20'-22'	0'-2'	6'-8'	13'-15'
	Matrix:	Solid	Solid	Solid	Solid	Solid	Solid
	Sampled:	07/14/98 09:05	07/14/98 10:50	07/14/98 11:00	07/14/98 12:35	07/14/98 13:15	07/14/98 14:00
TPH-DRO (Diesel) EPA 8015 M	*Analyzed:*	07/28/98	07/28/98	07/28/98	07/28/98	07/28/98	07/28/98
	Units:	mg/kg R.L.	mg/kg R.L.	mg/kg R.L.	mg/kg R.L.	mg/kg R.L.	mg/kg R.L.
Total Petroleum Hydrocarbons		< 5.0 (5.0)	< 5.0 (5.0)	< 5.0 (5.0)	9.6 (5.0)	8.7 (5.0)	6.1 (5.0)
BTEX EPA 8021B	*Analyzed:*	07/17/98	07/17/98	07/17/98	07/17/98	07/17/98	07/17/98
	Units:	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.
Benzene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)
Toluene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)
Ethylbenzene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)
m,p-Xylenes		< 0.040 (0.040)	< 0.040 (0.040)	< 0.040 (0.040)	< 0.040 (0.040)	< 0.040 (0.040)	< 0.040 (0.040)
o-Xylene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)
Total BTEX		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-82682

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Manager: Theresa Nix
Project Location: Monument, Lea Co., NM

Project Name: Monument Site #17

Date Received in Lab : Jul 16, 1998 09:15
Date Report Faxed: Aug 17, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:*	182682 007	182682 008	182682 009			
	Field ID:	MW17-8	MW17-8	MW17-8			
	Depth:	0'-2'	2'-4'	13'-15'			
	Matrix:	Solid	Solid	Solid			
	Sampled:	07/14/98 15:35	07/14/98 15:45	07/14/98 17:00			
TPH-DRO (Diesel) EPA 8015 M	*Analyzed:*	07/28/98	07/28/98	07/28/98			
	Units:	mg/kg R.L.	mg/kg R.L.	mg/kg R.L.			
Total Petroleum Hydrocarbons		7.4 (5.0)	86.5 (5.0)	10.1 (5.0)			
BTEX EPA 8021B	*Analyzed:*	07/17/98	07/17/98	07/17/98			
	Units:	ppm R.L.	ppm R.L.	ppm R.L.			
Benzene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)			
Toluene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)			
Ethylbenzene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)			
m,p-Xylenes		< 0.040 (0.040)	< 0.040 (0.040)	< 0.040 (0.040)			
o-Xylene		< 0.020 (0.020)	< 0.020 (0.020)	< 0.020 (0.020)			
Total BTEX		N.D.	N.D.	N.D.			
SPLP-Semivolatiles EPA1312/8270	*Analyzed:*		07/31/98				
	Units:		mg/L R.L.				
Acenaphthene			< 0.005 (0.005)				
Acenaphthylene			< 0.005 (0.005)				
Anthracene			< 0.005 (0.005)				
Benzo(a)anthracene			< 0.005 (0.005)				
Benzo(a)pyrene			< 0.005 (0.005)				
Benzo(b)fluoranthene			< 0.005 (0.005)				
Benzo(g,h,i)perylene			< 0.005 (0.005)				
Benzo(k)fluoranthene			< 0.005 (0.005)				
4-Bromophenyl-phenylether			< 0.005 (0.005)				
Butyl benzyl phthalate			< 0.005 (0.005)				
Carbazole			< 0.005 (0.005)				
4-Chloro-3-methylphenol			< 0.005 (0.005)				

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-82682

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Manager: Theresa Nix
Project Location: Monument, Lea Co., NM

Project Name: Monument Site #17

Date Received in Lab : Jul 16, 1998 09:15
Date Report Faxed: Aug 17, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:*	182682 007	182682 008	182682 009			
	Field ID:	MW17-8	MW17-8	MW17-8			
	Depth:	0'-2'	2'-4'	13'-15'			
	Matrix:	Solid	Solid	Solid			
	Sampled:	07/14/98 15:35	07/14/98 15:45	07/14/98 17:00			
EPA1312/8270	*Analyzed:*		07/31/98				
	Units:		mg/L R.L.				
4-Chloroaniline			< 0.005 (0.005)				
2-Chloronaphthalene			< 0.005 (0.005)				
2-Chlorophenol			< 0.005 (0.005)				
4-Chlorophenyl-phenyl ether			< 0.005 (0.005)				
Chrysene			< 0.005 (0.005)				
Di-n-butyl phthalate			< 0.005 (0.005)				
Di-n-octyl phthalate			< 0.005 (0.005)				
Dibenzo(a,h)anthracene			< 0.005 (0.005)				
Dibenzofuran			< 0.005 (0.005)				
1,2-Dichlorobenzene			< 0.005 (0.005)				
1,3-Dichlorobenzene			< 0.005 (0.005)				
1,4-Dichlorobenzene			< 0.005 (0.005)				
3,3'-Dichlorobenzidine			< 0.005 (0.005)				
2,4-Dichlorophenol			< 0.005 (0.005)				
Diethyl phthalate			< 0.005 (0.005)				
2,4-Dimethylphenol			< 0.005 (0.005)				
Dimethyl phthalate			< 0.005 (0.005)				
4,6-Dinitro-2-methylphenol			< 0.013 (0.013)				
2,4-Dinitrophenol			< 0.013 (0.013)				
2,4-Dinitrotoluene			< 0.005 (0.005)				
2,6-Dinitrotoluene			< 0.005 (0.005)				
Fluoranthene			< 0.005 (0.005)				
Fluorene			< 0.005 (0.005)				
Hexachlorobenzene			< 0.005 (0.005)				

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-82682

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Manager: Theresa Nix
Project Location: Monument, Lea Co., NM

Project Name: Monument Site #17

Date Received in Lab : Jul 16, 1998 09:15
Date Report Faxed: Aug 17, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:*	182682 007	182682 008	182682 009			
	Field ID:	MW17-8	MW17-8	MW17-8			
	Depth:	0'-2'	2'-4'	13'-15'			
	Matrix:	Solid	Solid	Solid			
	Sampled:	07/14/98 15:35	07/14/98 15:45	07/14/98 17:00			
EPA1312/8270	*Analyzed:*		07/31/98				
	Units:		mg/L R.L.				
Hexachlorobutadiene			< 0.005 (0.005)				
Hexachlorocyclopentadiene			< 0.005 (0.005)				
Hexachloroethane			< 0.005 (0.005)				
Indeno(1,2,3-cd)pyrene			< 0.005 (0.005)				
Isophorone			< 0.005 (0.005)				
2-Methylnaphthalene			0.007 (0.005)				
2-Methylphenol			< 0.005 (0.005)				
4-Methylphenol			< 0.005 (0.005)				
N-Nitroso-di-n-propylamine			< 0.005 (0.005)				
N-Nitrosodiphenylamine			< 0.005 (0.005)				
Naphthalene			< 0.005 (0.005)				
2-Nitroaniline			< 0.013 (0.013)				
3-Nitroaniline			< 0.013 (0.013)				
4-Nitroaniline			< 0.013 (0.013)				
Nitrobenzene			< 0.005 (0.005)				
2-Nitrophenol			< 0.005 (0.005)				
4-Nitrophenol			< 0.005 (0.005)				
Pentachlorophenol			< 0.013 (0.013)				
Phenanthrene			< 0.005 (0.005)				
Phenol			< 0.005 (0.005)				
Pyrene			< 0.005 (0.005)				
1,2,4-Trichlorobenzene			< 0.005 (0.005)				
2,4,5-Trichlorophenol			< 0.013 (0.013)				
2,4,6-Trichlorophenol			< 0.005 (0.005)				

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-82682

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Manager: Theresa Nix
Project Location: Monument, Lea Co., NM

Project Name: Monument Site #17

Date Received in Lab : Jul 16, 1998 09:15
Date Report Faxed: Aug 17, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	182682 007 MW17-8 0'-2' Solid 07/14/98 15:35	182682 008 MW17-8 2'-4' Solid 07/14/98 15:45	182682 009 MW17-8 13'-15' Solid 07/14/98 17:00			
EPA1312/8270	*Analyzed:* / *Units:*		07/31/98 mg/L R.L.				
bis(2-Chloroethoxy) methane			< 0.005 (0.005)				
bis(2-Chloroethyl) ether			< 0.005 (0.005)				
bis(2-Chloroisopropyl) ether			< 0.005 (0.005)				
bis(2-Ethylhexyl) phthalate			0.010 (0.005)				
SPLP Volatiles EPA 8260	*Analyzed:* / *Units:*		08/04/98 mg/L R.L.				
Benzene			< 0.005 (0.005)				
Bromobenzene			< 0.005 (0.005)				
Bromochloromethane			< 0.005 (0.005)				
Bromodichloromethane			< 0.005 (0.005)				
Bromoform			< 0.005 (0.005)				
Bromomethane			< 0.005 (0.005)				
Carbon Tetrachloride			< 0.005 (0.005)				
Chlorobenzene			< 0.005 (0.005)				
Chloroethane			< 0.010 (0.010)				
Chloroform			< 0.005 (0.005)				
Chloromethane			< 0.010 (0.010)				
2-Chlorotoluene			< 0.005 (0.005)				
4-Chlorotoluene			< 0.005 (0.005)				
1,2-Dibromo-3-chloropropane			< 0.005 (0.005)				
Dibromochloromethane			< 0.005 (0.005)				
1,2-Dibromoethane			< 0.005 (0.005)				
Dibromomethane			< 0.005 (0.005)				

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CERTIFICATE OF ANALYSIS SUMMARY 1-82682

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Manager: Theresa Nix
Project Location: Monument, Lea Co., NM

Project Name: Monument Site #17

Date Received in Lab : Jul 16, 1998 09:15
Date Report Faxed: Aug 17, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:*	182682 007	182682 008	182682 009			
	Field ID:	MW17-8	MW17-8	MW17-8			
	Depth:	0'-2'	2'-4'	13'-15'			
	Matrix:	Solid	Solid	Solid			
	Sampled:	07/14/98 15:35	07/14/98 15:45	07/14/98 17:00			
EPA 8260	*Analyzed:*		08/04/98				
	Units:		mg/L R.L.				
1,2-Dichlorobenzene			< 0.005 (0.005)				
1,3-Dichlorobenzene			< 0.005 (0.005)				
1,4-Dichlorobenzene			< 0.005 (0.005)				
Dichlorodifluoromethane			< 0.005 (0.005)				
1,1-Dichloroethane			< 0.005 (0.005)				
1,2-Dichloroethane			0.020 (0.005)				
1,1-Dichloroethene			< 0.005 (0.005)				
1,2-Dichloropropane			< 0.005 (0.005)				
1,3-Dichloropropane			< 0.005 (0.005)				
2,2-Dichloropropane			< 0.005 (0.005)				
1,1-Dichloropropene			< 0.005 (0.005)				
Ethylbenzene			< 0.005 (0.005)				
Hexachlorobutadiene			< 0.005 (0.005)				
Isopropylbenzene			< 0.005 (0.005)				
MTBE			< 0.010 (0.010)				
Methylene chloride			< 0.020 (0.020)				
Naphthalene			< 0.005 (0.005)				
Styrene			< 0.005 (0.005)				
1,1,1,2-Tetrachloroethane			< 0.005 (0.005)				
1,1,2,2-Tetrachloroethane			< 0.005 (0.005)				
Tetrachloroethene			< 0.005 (0.005)				
Toluene			< 0.005 (0.005)				
1,2,3-Trichlorobenzene			< 0.005 (0.005)				
1,2,4-Trichlorobenzene			< 0.005 (0.005)				

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-82682

K.E.I. Consultants, Inc.

Project ID: 610057-2-17
Project Name: *Monument Site #17*
Project Manager: Theresa Nix
Project Location: Monument, Lea Co., NM

Date Received in Lab : Jul 16, 1998 09:15
Date Report Faxed: Aug 17, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	182682 007 MW17-8 0'-2' Solid 07/14/98 15:35	182682 008 MW17-8 2'-4' Solid 07/14/98 15:45	182682 009 MW17-8 13'-15' Solid 07/14/98 17:00			
EPA 8260	*Analyzed:* / *Units:*		08/04/98 mg/L R.L.				
1,1,1-Trichloroethane			< 0.005 (0.005)				
1,1,2-Trichloroethane			< 0.005 (0.005)				
Trichloroethene			< 0.005 (0.005)				
Trichlorofluoromethane			< 0.005 (0.005)				
1,2,3-Trichloropropane			< 0.005 (0.005)				
1,2,4-Trimethylbenzene			0.008 (0.005)				
1,3,5-Trimethylbenzene			< 0.005 (0.005)				
Vinyl chloride			< 0.005 (0.005)				
cis-1,2-Dichloroethene			< 0.005 (0.005)				
cis-1,3-Dichloropropene			< 0.005 (0.005)				
m,p-Xylenes			< 0.005 (0.005)				
n-Butylbenzene			< 0.005 (0.005)				
n-Propylbenzene			< 0.005 (0.005)				
o-Xylene			< 0.005 (0.005)				
p-Isopropyltoluene			< 0.005 (0.005)				
sec-Butylbenzene			< 0.005 (0.005)				
tert-Butylbenzene			< 0.005 (0.005)				
trans-1,2-Dichloroethene			< 0.005 (0.005)				
trans-1,3-Dichloropropene			< 0.005 (0.005)				
SPLP TPH 1312/418.1	*Analyzed:* / *Units:*		07/31/98 ppm R.L.				
Total Petroleum Hydrocarbons			< 0.7 (0.7)				

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A40D16

SW- 846 3015 M TPH- DRO (Diesel)

Date Validated: Jul 28, 1998 18:40
Date Analyzed: Jul 28, 1998 14:12

Analyst: AM
Matrix: Solid

	BLANK SPIKE ANALYSIS						
	[A]	[B]	[C]	[D]	[E]	[F]	[G]
					QC	LIMITS	
Parameter	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	Blank Spike Recovery	Recovery Range	Qualifier
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	
Total Petroleum Hydrocarbons	< 5.00	138	200	5.00	69.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edgle E. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A40D16

SW- 846 8015 M TPH- DRO (Diesel)

Date Validated: Jul 28, 1998 18:40
Date Analyzed: Jul 28, 1998 13:07

Analyst: AM
Matrix: Solid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 182682- 002	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	%	
Total Petroleum Hydrocarbons	< 25.00	136	149	200	25.00	30.0	9.1	68.0	74.5	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25C32

SW- 846 5030/8020 BTEX

Date Validated: Jul 20, 1998 09:00
Date Analyzed: Jul 17, 1998 08:43

Analyst: HL
Matrix: Solid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1000	0.1000	0.0010	100.0	65-135	
Toluene	< 0.0010	0.0995	0.1000	0.0010	99.5	65-135	
Ethylbenzene	< 0.0010	0.0995	0.1000	0.0010	99.5	65-135	
m,p-Xylenes	< 0.0020	0.2070	0.2000	0.0020	103.5	65-135	
o-Xylene	< 0.0010	0.1020	0.1000	0.0010	102.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated. data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25C32

SW- 846 5030/8020 BTEX

Date Validated: Jul 20, 1998 09:00
Date Analyzed: Jul 17, 1998 09:31

Analyst: HL
Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 182691- 001 / Parameter	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Benzene	0.040	2.240	2.220	2.000	0.020	25.0	0.9	110.0	109.0	65-135	
Toluene	0.026	1.880	1.854	2.000	0.020	25.0	1.4	92.7	91.4	65-135	
Ethylbenzene	< 0.020	1.910	1.880	2.000	0.020	25.0	1.6	95.5	94.0	65-135	
m,p-Xylenes	< 0.040	4.020	3.980	4.000	0.040	25.0	1.0	100.5	99.5	65-135	
o-Xylene	< 0.020	1.846	1.836	2.000	0.020	25.0	0.5	92.3	91.8	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A34D34

EPA 1311/8270 TCLP Semi- volatiles

Date Validated: Aug 3, 1998 16:00
Date Analyzed: Jul 31, 1998 16:51

Analyst: LC
Matrix: Liquid

	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Acenaphthene	< 0.0020	0.0710	0.0756	0.1000	0.0020	31.0	6.3	71.0	75.6	46-118	
4-Chloro-3-methylphenol	< 0.0006	0.0678	0.0592	0.1000	0.0006	42.0	13.5	67.8	59.2	23-97	
2-Chlorophenol	< 0.0040	0.0674	0.0592	0.1000	0.0040	40.0	13.0	67.4	59.2	27-123	
1,4-Dichlorobenzene	< 0.0040	0.0618	0.0622	0.1000	0.0040	28.0	0.6	61.8	62.2	36-97	
2,4-Dinitrotoluene	< 0.0008	0.0678	0.0692	0.1000	0.0008	38.0	2.0	67.8	69.2	24-96	
N-Nitroso-di-n-propylamine	< 0.0080	0.0672	0.0656	0.1000	0.0080	38.0	2.4	67.2	65.6	41-116	
4-Nitrophenol	< 0.0080	0.0364	0.0306	0.1000	0.0080	50.0	17.3	36.4	30.6	10-80	
Pentachlorophenol	< 0.0012	0.0686	0.0380	0.1000	0.0012	50.0	57.4	68.6	38.0	9-103	
Phenol	< 0.0040	0.0326	0.0286	0.1000	0.0040	42.0	13.1	32.6	28.6	12-89	
Pyrene	< 0.0040	0.0866	0.0888	0.1000	0.0040	31.0	2.5	86.6	88.8	26-127	
1,2,4-Trichlorobenzene	< 0.0040	0.0636	0.0642	0.1000	0.0040	28.0	0.9	63.6	64.2	39-98	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A23D00

EPA1312/8260 SPLP Volatiles

Date Validated: Aug 17, 1998 13:00

Date Analyzed: Aug 4, 1998 18:52

Analyst: CE

Matrix: Solid

	BLANK SPIKE ANALYSIS						
	[A]	[B]	[C]	[D]	[E]	[F]	[G]
					QC	LIMITS	
Parameter	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	Blank Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	mg/L	%	%	
Benzene	< 0.0010	0.0573	0.0500	0.0010	114.6	66-142	
Chlorobenzene	< 0.0010	0.0542	0.0500	0.0010	108.4	60-133	
1,1-Dichloroethene	< 0.0040	0.0614	0.0500	0.0040	122.8	59-172	
Toluene	< 0.0010	0.0575	0.0500	0.0010	115.0	59-139	
Trichloroethene	< 0.0030	0.0538	0.0500	0.0030	107.6	62-137	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A23D00

EPA1312/8260 SPLP Volatiles

Date Validated: Aug 17, 1998 13:00
Date Analyzed: Aug 4, 1998 20:08

Analyst: CE
Matrix: Solid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 182683- 006 Parameter	[A] Sample Result mg/L	[B] Matrix Spike Result mg/L	[C] Matrix Spike Duplicate Result mg/L	[D] Matrix Spike Amount mg/L	[E] Detection Limit mg/L	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Benzene	< 0.0010	0.0590	0.0545	0.0500	0.0010	20.0	7.9	118.0	109.0	66-142	
Chlorobenzene	< 0.0010	0.0524	0.0529	0.0500	0.0010	20.0	0.9	104.8	105.8	60-133	
1,1-Dichloroethene	< 0.0040	0.0612	0.0585	0.0500	0.0040	25.0	4.5	122.4	117.0	59-172	
Toluene	0.0060	0.0584	0.0589	0.0500	0.0010	20.0	0.9	104.8	105.8	59-139	
Trichloroethene	< 0.0030	0.0563	0.0537	0.0500	0.0030	20.0	4.7	112.6	107.4	62-137	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M S D = Matrix Spike Duplicate
M S D. Recovery [H] = 100*(C-A)/[D]
N D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A07D44

EPA 1312/418.1 SPLP TPH

Date Validated: Jul 31, 1998 16:45
Date Analyzed: Jul 31, 1998 14:35

Analyst: EZ
Matrix: Solid

	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Duplicate Result ppm	[D] Blank Spike Amount ppm	[E] Detection Limit ppm	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Total Petroleum Hydrocarbons	< 0.50	4.23	4.27	4.01	0.50	20.0	0.9	105.5	106.5	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B S D. = Blank Spike Duplicate
B S D. Recovery [H] = 100*(C-A)/[D]
N D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories
11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 182682-SA

Contractor: KFT Consultants, Inc. Phone (210) 680-3767
Address: 5309 Wurzbach Road, Ste #100 / San Antonio, TX 78238
Project Name: Monument Site #17 Project Director: Teresa Nix
Project Location: Monument, Lea Co., NM Project Manager: Teresa Nix
Sampler Signature: Project No. 61005/2/17

No. coolers this shipment: Contractor COC # 159
Carrier: Quote #:
Airbill No. P.O. No:

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of CONTAINERS Total	BTEX (5030/8020-602)	TPH (418.1)	TPH (8015 mod - DRO)	BTEX (SW 846 - 8020)	TPH (1312/418.1)	VOCs (SW 846-1312/8260)	SVOAs (SW 846-1312/8270)	Please Hold	LAB ONLY ID #
1	MW17-7 (0'-2')	7/14/98	09:05	0'-2'	X		X		9oz.	G	X			2			X	X					1
2	MW17-7 (13'-15')		10:50	13'-15'	X		X		9oz.	G	X			2			X	X					2
3	MW17-7 (20'-22')		11:00	20'-22'	X		X		9oz.	G	X			2			X	X					3
4	MW17-6 (0'-2')		12:35	0'-2'	X		X		9oz.	G	X			2			X	X					4
5	MW17-6 (6'-8')		13:15	6'-8'	X		X		9oz.	G	X			2			X	X					5
6	MW17-6 (13'-15')		14:00	13'-15'	X		X		9oz.	G	X			2			X	X					6
7	MW17-8 (0'-2')		15:35	0'-2'	X		X		9oz.	G	X			2			X	X					7
8	MW17-8 (2'-4')		15:45	2'-4'	X		X		9oz.	G	X			2			X	X					8
9	MW17-8 (13'-15')		17:00	13'-15'	X		X		9oz.	G	X			2			X	X					9
10																							10

Waste Oil
PIT No: Tank No:
Unl Dies Ker Unknown

(Run on highest TPH only)
(Run on highest TPH only)
(Run on highest TPH only)

Turn-around
* ASAP
* 24 hrs
48 hrs
Standard 10 days

Remarks: Run soas to not exceed holding time!

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	7/15/98	16:00			
			Received For Laboratory by:	7/16/98	09:15

Remarks: Please fax results to Teresa Nix at (512) 364-3556.

(Via UPS)

N235 4125 76 9

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

EXPORT 2

ANALYTICAL REPORT 1-83308

for

K.E.I. Consultants, Inc.

Project Manager: Theresa Nix

Project Name: Monument Site 17

Project Id: 610057-6-17-0

September 18, 1998

XENCO Laboratories

HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
Phone (281) 589-0692 Fax (281) 589-0695

XENCO Laboratories

11381 Meadowglen Suite L
Houston, Texas 77082-2647
(281) 589-0692 Fax: (281) 589-0695
Houston - Dallas - San Antonio - Latin America

September 18, 1998

Project Manager: Theresa Nix
K.E.I. Consultants, Inc.
5309 Wurzbach Rd. Suite 100
San Antonio, TX 78238

Reference: **XENCO Report No.: 1-83308**
Project Name: Monument Site 17
Project ID: 610057-6-17-0
Project Address: Monument, NM.

Dear Theresa Nix:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-83308. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-83308 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO operates under the A2LA guidelines. Our Quality System meets ISO/IEC Guide 25 requirements which is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Eddie L. Clemons, II
QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY!

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-83308

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Manager: Theresa Nix
Project Location: Monument, NM.

Project Name: Monument Site 17

Date Received in Lab : Aug 26, 1998 11:50
Date Report Faxed: Sep 18, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	183308 001 MW-1 Liquid 08/25/98	183308 002 MW-2 Liquid 08/25/98	183308 003 MW-3 Liquid 08/25/98	183308 004 MW-4 Liquid 08/25/98	183308 005 MW-5 Liquid 08/25/98	183308 006 MW-6 Liquid 08/25/98	
Metals by ICP **EPA 6010**	*Analyzed:* / *Units:*						09/04/98 mg/L	R.L.
Aluminum							< 0.5	(0.5)
Arsenic							< 0.10	(0.10)
Barium							0.22	(0.04)
Beryllium							< 0.02	(0.02)
Boron							< 0.20	(0.20)
Cadmium							< 0.01	(0.01)
Calcium							760	(0.5)
Chromium							< 0.05	(0.05)
Cobalt							< 0.05	(0.05)
Copper							< 0.10	(0.10)
Iron							0.27	(0.20)
Lead							< 0.05	(0.05)
Magnesium							24.1	(0.5)
Manganese							< 0.10	(0.10)
Molybdenum							< 0.40	(0.40)
Nickel							< 0.10	(0.10)
Potassium							4.69	(0.50)
Selenium							< 0.05	(0.05)
Silicon							22.8	(0.5)
Silver							< 0.04	(0.04)
Sodium							69.0	(0.5)
Strontium							1.93	(0.20)
Tin							< 0.20	(0.20)
Vanadium							< 0.10	(0.10)

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-83308

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Name: *Monument Site 17*
Project Manager: Theresa Nix
Project Location: Monument, NM.

Date Received in Lab : Aug 26, 1998 11:50
Date Report Faxed: Sep 18, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	183308 001 MW-1 Liquid 08/25/98	183308 002 MW-2 Liquid 08/25/98	183308 003 MW-3 Liquid 08/25/98	183308 004 MW-4 Liquid 08/25/98	183308 005 MW-5 Liquid 08/25/98	183308 006 MW-6 Liquid 08/25/98
Metals by ICP **EPA 6010**	Analyzed: / Units:						09/04/98 mg/L R.L.
Zinc							< 0.10 (0.10)
Total Mercury **EPA 7470**	Analyzed: / Units:						09/04/98 mg/L R.L.
Mercury							< 0.0011 (0.0011)
BTEX **EPA 8021B**	Analyzed: / Units:	08/27/98 ppm R.L.	08/27/98 ppm R.L.	08/27/98 ppm R.L.	08/27/98 ppm R.L.	08/27/98 ppm R.L.	08/27/98 ppm R.L.
Benzene		0.260 (0.001)	0.024 (0.001)	0.084 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Toluene		0.007 (0.001)	0.003 (0.001)	0.002 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Ethylbenzene		0.036 (0.001)	< 0.001 (0.001)	0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
m,p-Xylenes		0.043 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
o-Xylene		0.006 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Total BTEX		0.352	0.027	0.087	N.D.	N.D.	N.D.
PAHs by GC-MS **EPA 8270**	Analyzed: / Units:						08/30/98 mg/L R.L.
Acenaphthene							< 0.002 (0.002)
Acenaphthylene							< 0.002 (0.002)
Anthracene							< 0.002 (0.002)
Benz(a)anthracene							< 0.002 (0.002)
Benzo(a)pyrene							< 0.002 (0.002)
Benzo(b)fluoranthene							< 0.002 (0.002)
Benzo(g,h,i)perylene							< 0.002 (0.002)
Benzo(k)fluoranthene							< 0.002 (0.002)

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-83308

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Name: *Monument Site 17*
Project Manager: Theresa Nix
Project Location: Monument, NM.

Date Received in Lab : Aug 26, 1998 11:50
Date Report Faxed: Sep 18, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	183308 001 MW-1 Liquid 08/25/98	183308 002 MW-2 Liquid 08/25/98	183308 003 MW-3 Liquid 08/25/98	183308 004 MW-4 Liquid 08/25/98	183308 005 MW-5 Liquid 08/25/98	183308 006 MW-6 Liquid 08/25/98	
PAHs by GC-MS EPA 8270	Analyzed: / Units:						08/30/98 mg/L	R.L.
Chrysene							< 0.002	(0.002)
Dibenz(a,h)anthracene							< 0.002	(0.002)
Fluoranthene							< 0.002	(0.002)
Fluorene							< 0.002	(0.002)
Indeno(1,2,3-cd)pyrene							< 0.002	(0.002)
Naphthalene							< 0.002	(0.002)
Phenanthrene							< 0.002	(0.002)
Pyrene							< 0.002	(0.002)
Bicarbonate SM 4500CO2D	Analyzed: / Units:						08/28/98 mg/L	R.L.
Bicarbonate							235	(4.0)
Carbonate SM4500CO2D	Analyzed: / Units:						08/28/98 mg/L	R.L.
Carbonate							< 4.0	(4.0)
Total Dissolved Solids EPA 160.1	Analyzed: / Units:						08/31/98 mg/L	R.L.
Total Dissolved Solids							772	(5.0)
Anions by Ion Chromatography EPA 300.0	Analyzed: / Units:						08/28/98 mg/L	R.L.
Chloride							164	(2)
Sulfate							67	(2)

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XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-83308

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Manager: Theresa Nix
Project Location: Monument, NM.

Project Name: Monument Site 17

Date Received in Lab : Aug 26, 1998 11:50
Date Report Faxed: Sep 18, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:*	183308 007		183308 008		183308 009			
	Field ID:	MW-7		MW-8		Windmill			
	Depth:								
	Matrix:	Liquid		Liquid		Liquid			
	Sampled:	08/25/98		08/25/98		08/25/98			
Metals by ICP	*Analyzed:*	09/04/98		09/04/98					
EPA 6010	*Units:*	mg/L	R.L.	mg/L	R.L.				
Aluminum		< 0.50	(0.50)	0.69	(0.50)				
Arsenic		< 0.10	(0.10)	< 0.10	(0.10)				
Barium		0.18	(0.04)	0.50	(0.04)				
Beryllium		< 0.02	(0.02)	< 0.02	(0.02)				
Boron		0.21	(0.20)	0.20	(0.20)				
Cadmium		< 0.01	(0.01)	< 0.01	(0.01)				
Calcium		170	(0.5)	155	(0.5)				
Chromium		< 0.05	(0.05)	< 0.05	(0.05)				
Cobalt		< 0.05	(0.05)	< 0.05	(0.05)				
Copper		< 0.10	(0.10)	< 0.10	(0.10)				
Iron		< 0.20	(0.20)	0.45	(0.20)				
Lead		< 0.05	(0.05)	< 0.05	(0.05)				
Magnesium		21.2	(0.5)	28.0	(0.5)				
Manganese		< 0.10	(0.10)	0.26	(0.10)				
Molybdenum		< 0.40	(0.40)	< 0.40	(0.40)				
Nickel		< 0.10	(0.10)	< 0.10	(0.10)				
Potassium		4.22	(0.50)	3.96	(0.50)				
Selenium		< 0.05	(0.05)	< 0.05	(0.05)				
Silicon		19.8	(0.5)	20.5	(0.5)				
Silver		< 0.04	(0.04)	< 0.04	(0.04)				
Sodium		71.7	(0.5)	96.7	(0.5)				
Strontium		1.26	(0.20)	1.36	(0.20)				
Tin		< 0.20	(0.20)	< 0.20	(0.20)				
Vanadium		< 0.10	(0.10)	< 0.10	(0.10)				

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-83308

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Manager: Theresa Nix
Project Location: Monument, NM.

Project Name: Monument Site 17

Date Received in Lab : Aug 26, 1998 11:50
Date Report Faxed: Sep 18, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	183308 007 MW-7 Liquid 08/25/98	183308 008 MW-8 Liquid 08/25/98	183308 009 Windmill Liquid 08/25/98			
Metals by ICP **EPA 6010**	*Analyzed:* / *Units:*	09/04/98 mg/L R.L.	09/04/98 mg/L R.L.				
Zinc		0.28 (0.10)	< 0.10 (0.10)				
Total Mercury **EPA 7470**	*Analyzed:* / *Units:*	09/04/98 mg/L R.L.	09/04/98 mg/L R.L.				
Mercury		< 0.0011 (0.0011)	< 0.0011 (0.0011)				
BTEX **EPA 8021B**	*Analyzed:* / *Units:*	08/27/98 ppm R.L.	08/27/98 ppm R.L.	08/27/98 ppm R.L.			
Benzene		0.086 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)			
Toluene		< 0.004 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)			
Ethylbenzene		0.008 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)			
m,p-Xylenes		< 0.008 (0.008)	< 0.002 (0.002)	< 0.002 (0.002)			
o-Xylene		< 0.004 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)			
Total BTEX		0.094	N.D.	N.D.			
PAHs by GC-MS **EPA 8270**	*Analyzed:* / *Units:*	08/30/98 mg/L R.L.	08/30/98 mg/L R.L.				
Acenaphthene		< 0.002 (0.002)	< 0.002 (0.002)				
Acenaphthylene		< 0.002 (0.002)	< 0.002 (0.002)				
Anthracene		< 0.002 (0.002)	< 0.002 (0.002)				
Benz(a)anthracene		< 0.002 (0.002)	< 0.002 (0.002)				
Benzo(a)pyrene		< 0.002 (0.002)	< 0.002 (0.002)				
Benzo(b)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)				
Benzo(g,h,i)perylene		< 0.002 (0.002)	< 0.002 (0.002)				
Benzo(k)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)				

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-83308

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Manager: Theresa Nix
Project Location: Monument, NM.

Project Name: Monument Site 17

Date Received in Lab : Aug 26, 1998 11:50
Date Report Faxed: Sep 18, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	183308 007 MW-7 Liquid 08/25/98		183308 008 MW-8 Liquid 08/25/98		183308 009 Windmill Liquid 08/25/98			
PAHs by GC-MS EPA 8270	*Analyzed:* / *Units:*	08/30/98 mg/L	R.L.	08/30/98 mg/L	R.L.				
Chrysene		< 0.002	(0.002)	< 0.002	(0.002)				
Dibenz(a,h)anthracene		< 0.002	(0.002)	< 0.002	(0.002)				
Fluoranthene		< 0.002	(0.002)	< 0.002	(0.002)				
Fluorene		< 0.002	(0.002)	< 0.002	(0.002)				
Indeno(1,2,3-cd)pyrene		< 0.002	(0.002)	< 0.002	(0.002)				
Naphthalene		0.003	(0.002)	< 0.002	(0.002)				
Phenanthrene		< 0.002	(0.002)	< 0.002	(0.002)				
Pyrene		< 0.002	(0.002)	< 0.002	(0.002)				
Bicarbonate SM 4500CO2D	*Analyzed:* / *Units:*	08/28/98 mg/L	R.L.	08/28/98 mg/L	R.L.				
Bicarbonate		325	(4.0)	273	(4.0)				
Carbonate SM4500CO2D	*Analyzed:* / *Units:*	08/28/98 mg/L	R.L.	08/28/98 mg/L	R.L.				
Carbonate		< 4.0	(4.0)	< 4.0	(4.0)				
Total Dissolved Solids EPA 160.1	*Analyzed:* / *Units:*	08/31/98 mg/L	R.L.	08/31/98 mg/L	R.L.				
Total Dissolved Solids		719	(5.0)	743	(5.0)				
Anions by Ion Chromatography EPA 300.0	*Analyzed:* / *Units:*	08/28/98 mg/L	R.L.	08/28/98 mg/L	R.L.				
Chloride		177	(2)	86	(20)				
Sulfate		48	(2)	1550	(20)				

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25C95

SW- 846 5030/8021B BTEX

Date Validated: Aug 28, 1998 11:30
Date Analyzed: Aug 27, 1998 11:08

Analyst: HL
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Detection Limit ppm	[E] QC LIMITS Blank Spike Recovery %	[F] QC LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1030	0.1000	0.0010	103.0	65-135	
Toluene	< 0.0010	0.1010	0.1000	0.0010	101.0	65-135	
Ethylbenzene	< 0.0010	0.0993	0.1000	0.0010	99.3	65-135	
m,p-Xylenes	< 0.0020	0.2080	0.2000	0.0020	104.0	65-135	
o-Xylene	< 0.0010	0.1050	0.1000	0.0010	105.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25C95

SW- 846 5030/8021B BTEX

Date Validated: Aug 28, 1998 11:30
Date Analyzed: Aug 27, 1998 11:40

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 183286- 001	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.0010	0.1020	0.1060	0.1000	0.0010	20.0	3.8	102.0	106.0	65-135	
Toluene	< 0.0010	0.1140	0.1190	0.1000	0.0010	20.0	4.3	114.0	119.0	65-135	
Ethylbenzene	< 0.0010	0.1120	0.1170	0.1000	0.0010	20.0	4.4	112.0	117.0	65-135	
m,p-Xylenes	< 0.0020	0.2340	0.2430	0.2000	0.0020	20.0	3.8	117.0	121.5	65-135	
o-Xylene	< 0.0010	0.1180	0.1230	0.1000	0.0010	20.0	4.1	118.0	123.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25C85

EPA 602 BTEX

Date Validated: Aug 20, 1998 17:30
Date Analyzed: Aug 20, 1998 10:17

Analyst: HL
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.0959	0.1000	0.0010	95.9	70-125	
Toluene	< 0.0010	0.0925	0.1000	0.0010	92.5	70-125	
Ethylbenzene	< 0.0010	0.1000	0.1000	0.0010	100.0	70-125	
m,p-Xylenes	< 0.0020	0.1970	0.2000	0.0020	98.5	70-125	
o-Xylene	< 0.0010	0.0924	0.1000	0.0010	92.4	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated. data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25C85

EPA 602 BTEX

Date Validated: Aug 20, 1998 17:30
Date Analyzed: Aug 20, 1998 11:22

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 183195- 001	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.0010	0.0918	0.0952	0.1000	0.0010	20.0	3.6	91.8	95.2	70-125	
Toluene	< 0.0010	0.0912	0.0941	0.1000	0.0010	20.0	3.1	91.2	94.1	70-125	
Ethylbenzene	< 0.0010	0.0960	0.0995	0.1000	0.0010	20.0	3.6	96.0	99.5	70-125	
m,p-Xylenes	< 0.0020	0.1920	0.2000	0.2000	0.0020	20.0	4.1	96.0	100.0	70-125	
o-Xylene	< 0.0010	0.0906	0.0945	0.1000	0.0010	20.0	4.2	90.6	94.5	70-125	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A34D97

SW846-8270 PAHs by GC-MS (610 List)

Date Validated: Sep 1, 1998 14:05
Date Analyzed: Aug 29, 1998 16:35

Analyst: LC
Matrix: Liquid

	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Acenaphthene	< 0.0020	0.0355	0.0382	0.0500	0.0020	31.0	7.3	71.0	76.4	46-118	
4-Chloro-3-methylphenol	< 0.0020	0.0318	0.0356	0.0500	0.0020	42.0	11.3	63.6	71.2	23-97	
2-Chlorophenol	< 0.0020	0.0403	0.0429	0.0500	0.0020	40.0	6.3	80.6	85.8	27-123	
1,4-Dichlorobenzene	< 0.0020	0.0427	0.0454	0.0500	0.0020	28.0	6.1	85.4	90.8	36-97	
2,4-Dinitrotoluene	< 0.0020	0.0344	0.0371	0.0500	0.0020	38.0	7.6	68.8	74.2	24-96	
N-Nitrosodi-n-propylamine	< 0.0040	0.0445	0.0492	0.0500	0.0040	38.0	10.0	89.0	98.4	41-116	
4-Nitrophenol	< 0.0040	0.0303	0.0327	0.0500	0.0040	50.5	7.6	60.6	65.4	10-80	
Pentachlorophenol	< 0.0010	0.0314	0.0350	0.0500	0.0010	50.0	10.8	62.8	70.0	9-103	
Phenol	< 0.0010	0.0349	0.0380	0.0500	0.0010	42.0	8.5	69.8	76.0	12-89	
Pyrene	< 0.0020	0.0393	0.0442	0.0500	0.0020	31.0	11.7	78.6	88.4	26-127	
1,2,4-Trichlorobenzene	< 0.0010	0.0387	0.0407	0.0500	0.0010	28.0	5.0	77.4	81.4	39-98	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A20B52

SM 4500CO2D Bicarbonate

Date Validated: Aug 28, 1998 16:58
Date Analyzed: Aug 28, 1998 14:15

Analyst: IF
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
	[A]	[B]	[C]	[D]	[E]	[F]	[G]
					QC	LIMITS	
Parameter	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	Blank Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	mg/L	%	%	
Bicarbonate	< 4.00	240	250	4.00	96.0	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch = 18A20B52

SM 4500CO2D Bicarbonate

Date Validated: Aug 28, 1998 16:58
Date Analyzed: Aug 28, 1998 15:05

Analyst: IF
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 183308- 006	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Bicarbonate	235	232	4.00	1.3	25.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch - 18A20B53

SM4500CO2D Carbonate

Date Validated: Aug 28, 1998 16:58
Date Analyzed: Aug 28, 1998 14:55

Analyst: IF
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 183308- 006	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Carbonate	< 4.00	< 4.00	4.00	N.C	25.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch - 18A19C65

EPA 160.1 Total Dissolved Solids

Date Validated: Aug 31, 1998 17:40
Date Analyzed: Aug 31, 1998 10:25

Analyst: IF
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 183308- 006	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Total Dissolved Solids	772	729	5.00	5.7	25.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch = 18A19C65

EPA 160.1 Total Dissolved Solids

Date Validated: Aug 31, 1998 17:40
Date Analyzed: Aug 31, 1998 09:35

Analyst: IF
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 183232- 002	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Total Dissolved Solids	867	813	5.00	6.4	25.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A10C03

EPA 300.0 Anions by Ion Chromatography

Date Validated: Aug 29, 1998 09:53
Date Analyzed: Aug 27, 1998 23:48

Analyst: OR
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 183312- 004	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Nitrate	< 1.00	< 1.00	1.00	N.C	20.0	
Sulfate	100	94.50	1.00	5.7	20.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A10C03

EPA 300.0 Anions by Ion Chromatography

Date Validated: Aug 29, 1998 09:53
Date Analyzed: Aug 28, 1998 02:06

Analyst: OR
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 183308- 008	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Chloride	86	91	20	5.6	20.0	
Sulfate	1550	1640	20	5.6	20.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A10C03

EPA 300.0 Anions by Ion Chromatography

Date Validated: Aug 29, 1998 09:53
Date Analyzed: Aug 27, 1998 19:49

Analyst: OR
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Chloride	< 0.20	5.64	5.94	5.00	0.20	20.0	5.2	112.8	118.8	70-125	
Nitrate	< 0.20	4.64	5.11	5.00	0.20	20.0	9.6	92.8	102.2	70-125	
Sulfate	< 0.20	5.07	5.60	5.00	0.20	20.0	9.9	101.4	112.0	70-125	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Manager: Theresa Nix
Project Location: Monument, NM.

Project Name: Monument Site 17

XENCO COC#: 1-83308
Date Received in Lab: Aug 26, 1998 11:50 by JO
XENCO contact : Carlos Castro/Eddie Clemons

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time			
							Sample Collected	Addition Requested	Extraction	Analysis
1	MW-1	183308-001	BTEX	SW-846	ppm	10 days	Aug 25, 1998		Aug 27, 1998 by HL	Aug 27, 1998 14:28 by HL
2	MW-2	183308-002	BTEX	SW-846	ppm	10 days	Aug 25, 1998		Aug 27, 1998 by HL	Aug 27, 1998 17:57 by HL
3	MW-3	183308-003	BTEX	SW-846	ppm	10 days	Aug 25, 1998		Aug 27, 1998 by HL	Aug 27, 1998 17:09 by HL
4	MW-4	183308-004	BTEX	SW-846	ppm	10 days	Aug 25, 1998		Aug 27, 1998 by HL	Aug 27, 1998 16:04 by HL
5	MW-5	183308-005	BTEX	SW-846	ppm	10 days	Aug 25, 1998		Aug 27, 1998 by HL	Aug 27, 1998 17:25 by HL
6	MW-6	183308-006	BTEX	SW-846	ppm	10 days	Aug 25, 1998		Aug 27, 1998 by HL	Aug 27, 1998 16:20 by HL
7			PAHs	SW846-8270	mg/L	10 days	Aug 25, 1998		Aug 27, 1998 by SS	Aug 30, 1998 03:15 by LC
8			Metals (ICP)	EPA 6010	mg/L	10 days	Aug 25, 1998		Sep 2, 1998 by AO	Sep 4, 1998 13:33 by CG
9			TDS	EPA 160.1	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by IF	Aug 31, 1998 10:20 by IF
10			Carbonate	SM4500CO2D	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by IF	Aug 28, 1998 14:55 by IF
11			Bicarbonate	SM 4500CO2D	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by IF	Aug 28, 1998 14:55 by IF
12			Anions	EPA 300.0	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by OR	Aug 28, 1998 01:22 by OR
13			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 25, 1998		Sep 2, 1998 by AO	Sep 4, 1998 19:21 by CG
14	MW-7	183308-007	BTEX	SW-846	ppm	10 days	Aug 25, 1998		Aug 27, 1998 by HL	Aug 27, 1998 18:13 by HL
15			PAHs	SW846-8270	mg/L	10 days	Aug 25, 1998		Aug 27, 1998 by SS	Aug 30, 1998 06:59 by LC
16			Metals (ICP)	EPA 6010	mg/L	10 days	Aug 25, 1998		Sep 2, 1998 by AO	Sep 4, 1998 14:00 by CG
17			TDS	EPA 160.1	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by IF	Aug 31, 1998 10:30 by IF
18			Carbonate	SM4500CO2D	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by IF	Aug 28, 1998 15:15 by IF
19			Bicarbonate	SM 4500CO2D	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by IF	Aug 28, 1998 15:15 by IF
20			Anions	EPA 300.0	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by OR	Aug 28, 1998 02:53 by OR
21			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 25, 1998		Sep 2, 1998 by AO	Sep 4, 1998 19:20 by CG
22	MW-8	183308-008	BTEX	SW-846	ppm	10 days	Aug 25, 1998		Aug 27, 1998 by HL	Aug 27, 1998 16:36 by HL
23			PAHs	SW846-8270	mg/L	10 days	Aug 25, 1998		Aug 27, 1998 by SS	Aug 30, 1998 04:00 by LC
24			Metals (ICP)	EPA 6010	mg/L	10 days	Aug 25, 1998		Sep 2, 1998 by AO	Sep 4, 1998 14:09 by CG
25			TDS	EPA 160.1	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by IF	Aug 31, 1998 10:35 by IF
26			Carbonate	SM4500CO2D	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by IF	Aug 28, 1998 15:25 by IF
27			Bicarbonate	SM 4500CO2D	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by IF	Aug 28, 1998 15:25 by IF
28			Anions	EPA 300.0	mg/L	10 days	Aug 25, 1998		Aug 28, 1998 by OR	Aug 28, 1998 02:06 by OR

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610057-6-17-0
Project Manager: Theresa Nix
Project Location: Monument, NM.

Project Name: Monument Site 17

XENCO COC#: 1-83308
Date Received in Lab: Aug 26, 1998 11:50 by JO
XENCO contact : Carlos Castro/Eddie Clemons

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
29			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 25, 1998		Sep 2, 1998 by AO	Sep 4, 1998 19:22 by CG
30	Windmill	183308-009	BTEX	SW-846	ppm	10 days	Aug 25, 1998		Aug 27, 1998 by HL	Aug 27, 1998 16:52 by HL

XENCO Laboratories

☐ 11381 Meadowglen, Suite L, Houston TX 77082 281-589-0692
☑ 5309 Wurzbach Road, Suite 104, San Antonio, TX 78238 210-509-3334
☐ 11078 Morrison Road, Suite D, Dallas, TX 75229 972-481-9999

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

On-LINE Help & Technical Services at XENCO.com

10063

Company COC No: 176 **Work Order No:** Page 1 of 1

Company	Phone
K·E·I	210-680-3767
Project Name ☑ Previously done at XENCO	**Project ID**
Monument Site 17	610057-6-17-0
Location Monument, NM	
Project Manager (PM)	**Project Director (PD)**
Theresa Nix	Mike Hawthorne
Fax Results to ☑ PM and / or	**Fax**
	512-364-3556

Invoice to ☑ Accounting ☐ Include Invoice with Final Report Attn PM ☐ Invoice must have a P.O Bill to: 610057-6-17-0

Quote No. **P.O No** 610057-6-17 ☐ Call for a P.O.

Special DLs (RR I RR II DW QAPP See Lab PM Call Proj. PM)

Specifications

Sampler Name Stas Gravel Signature Stas Gravel

Lab Only: 183308-SA

Lab Only Additions

TAT: 5h 12h 20h 24h 48h 3d 5d 7d 14d 21d (Standard TAT is 10 Working Days unless otherwise agreed in writing. But often reported in 5-7 Working Days

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix A P S W	Composite	Grab	# Containers	Container Size	Type	Preservatives	BTEX by 8020	BTEX-MTBE by 8020	TPH by TX1005 418.1	PAHs by 8270	METALS by 6010 8RCRA Tot Pb TCLP8 13PP 23TAL See List	VOAs by 8260	SVOAs by 8270	TDS - 160.1	Cations/Anions	TAT 5h 12h 20h 24h 48h 3d 5d 7d 10d 14d 21d	Addn: PAH above mg/L W. mg/Kg S Highest Hit	Hold Analysis	Remarks
1	mw-1	8-25-98						2	40mL															
2	mw-2							2																
3	mw-3							2																
4	mw-4							2																
5	mw-5							2																
6	mw-6							6	40mL 3-1L Liters															
7	mw-7							6	VOA, P															
8	mw-8							6																
9	Windmill							2	VOAs															C-C-
10																								

Relinquished by (Initials and Signature)	Relinquished to (Initials and Signature)	Date & Time	Total Containers per COC:
1		8/25/98 1600	**Rush TATs Fax Due:** Final Fax Due:
2			Final Report Data Package Due Date:
3	Lab: Johnny Orona	8/26/98 11:50	Rush Charges are Pre-Approved upon Requesting them. All Terms Apply

Preservatives - Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO4 pH<2 (N), NaOH+Asbc Acid (NAA), ZnAc+NaOH (ZA), (Cool,<4C) (C4), None (N), See Label (SL), Other (O) _____

SIZE: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (.5), Tedlar Bag (B), Wipe (W), Other _____ **TYPE** Glass Amb (GA), Glass Clear (GC), Plastic (P), Other (O) _____

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Craig Eschberger
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: November 17, 2004

Work Order: 4110907

Project Location: Monument Lea Co.,NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
48019	MW-5 10’	soil	2004-11-03	11:20	2004-11-09
48021	MW-5 18’	soil	2004-11-03	11:45	2004-11-09
48023	MW-6 10’	soil	2004-11-03	14:40	2004-11-09
48025	MW-6 20’	soil	2004-11-03	15:00	2004-11-09
48029	MW-6 40’	soil	2004-11-03	15:40	2004-11-09
48031	MW-9 10’	soil	2004-11-04	07:55	2004-11-09
48033	MW-9 20’	soil	2004-11-04	08:10	2004-11-09

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

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 48019 - MW-5 10'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	13932	Date Analyzed:	2004-11-09	Analyzed By:	MT
Prep Batch:	12309	Sample Preparation:	2004-11-09	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.787	mg/Kg	10	0.100	79	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.830	mg/Kg	10	0.100	83	63.1 - 105

Sample: 48019 - MW-5 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14045	Date Analyzed:	2004-11-14	Analyzed By:	BP
Prep Batch:	12412	Sample Preparation:	2004-11-09	Prepared By:	BP

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		146	mg/Kg	1	150	97	69.8 - 106.1

Sample: 48019 - MW-5 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	13935	Date Analyzed:	2004-11-09	Analyzed By:	MT
Prep Batch:	12309	Sample Preparation:	2004-11-09	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	10	0.100	101	68 - 129.6
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	10	0.100	111	71.9 - 123.7

Sample: 48021 - MW-5 18'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	13932	Date Analyzed:	2004-11-09	Analyzed By:	MT
Prep Batch:	12309	Sample Preparation:	2004-11-09	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.808	mg/Kg	10	0.100	81	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.845	mg/Kg	10	0.100	84	63.1 - 105

Sample: 48021 - MW-5 18'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14045	Date Analyzed:	2004-11-14	Analyzed By:	BP
Prep Batch:	12412	Sample Preparation:	2004-11-09	Prepared By:	BP

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		132	mg/Kg	1	150	88	69.8 - 106.1

Sample: 48021 - MW-5 18'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	13935	Date Analyzed:	2004-11-09	Analyzed By:	MT
Prep Batch:	12309	Sample Preparation:	2004-11-09	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.06	mg/Kg	10	0.100	106	68 - 129.6
4-Bromofluorobenzene (4-BFB)		1.23	mg/Kg	10	0.100	123	71.9 - 123.7

Sample: 48023 - MW-6 10'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	13932	Date Analyzed:	2004-11-09	Analyzed By:	MT
Prep Batch:	12309	Sample Preparation:	2004-11-09	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.771	mg/Kg	10	0.100	77	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.813	mg/Kg	10	0.100	81	63.1 - 105

Sample: 48023 - MW-6 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14045	Date Analyzed:	2004-11-14	Analyzed By:	BP
Prep Batch:	12412	Sample Preparation:	2004-11-09	Prepared By:	BP

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		140	mg/Kg	1	150	94	69.8 - 106.1

Sample: 48023 - MW-6 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	13935	Date Analyzed:	2004-11-09	Analyzed By:	MT
Prep Batch:	12309	Sample Preparation:	2004-11-09	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	10	0.100	102	68 - 129.6
4-Bromofluorobenzene (4-BFB)		1.17	mg/Kg	10	0.100	117	71.9 - 123.7

Sample: 48025 - MW-6 20'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14035	Date Analyzed:	2004-11-15	Analyzed By:	MS
Prep Batch:	12401	Sample Preparation:	2004-11-15	Prepared By:	MS

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.908	mg/Kg	10	0.100	91	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.911	mg/Kg	10	0.100	91	63.1 - 105

Sample: 48025 - MW-6 20'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14045	Date Analyzed:	2004-11-14	Analyzed By:	BP
Prep Batch:	12412	Sample Preparation:	2004-11-09	Prepared By:	BP

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		138	mg/Kg	1	150	92	69.8 - 106.1

Sample: 48025 - MW-6 20'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14036	Date Analyzed:	2004-11-15	Analyzed By:	MS
Prep Batch:	12401	Sample Preparation:	2004-11-15	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.05	mg/Kg	10	0.100	105	68 - 129.6
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	10	0.100	103	71.9 - 123.7

Sample: 48029 - MW-6 40'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	13985	Date Analyzed:	2004-11-11	Analyzed By:	MS
Prep Batch:	12365	Sample Preparation:	2004-11-11	Prepared By:	MS

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.842	mg/Kg	10	0.100	84	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.894	mg/Kg	10	0.100	89	63.1 - 105

Sample: 48029 - MW-6 40'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14045	Date Analyzed:	2004-11-14	Analyzed By:	BP
Prep Batch:	12412	Sample Preparation:	2004-11-09	Prepared By:	BP

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		135	mg/Kg	1	150	90	69.8 - 106.1

Sample: 48029 - MW-6 40'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	13987	Date Analyzed:	2004-11-11	Analyzed By:	MS
Prep Batch:	12365	Sample Preparation:	2004-11-11	Prepared By:	MS

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.968	mg/Kg	10	0.100	97	68 - 129.6
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	10	0.100	102	71.9 - 123.7

Sample: 48031 - MW-9 10'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	13985	Date Analyzed:	2004-11-11	Analyzed By:	MS
Prep Batch:	12365	Sample Preparation:	2004-11-11	Prepared By:	MS

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.825	mg/Kg	10	0.100	82	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.871	mg/Kg	10	0.100	87	63.1 - 105

Sample: 48031 - MW-9 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14045	Date Analyzed:	2004-11-14	Analyzed By:	BP
Prep Batch:	12412	Sample Preparation:	2004-11-09	Prepared By:	BP

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		140	mg/Kg	1	150	93	69.8 - 106.1

Sample: 48031 - MW-9 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	13987	Date Analyzed:	2004-11-11	Analyzed By:	MS
Prep Batch:	12365	Sample Preparation:	2004-11-11	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.985	mg/Kg	10	0.100	98	68 - 129.6
4-Bromofluorobenzene (4-BFB)		0.992	mg/Kg	10	0.100	99	71.9 - 123.7

Sample: 48033 - MW-9 20'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	13985	Date Analyzed:	2004-11-11	Analyzed By:	MS
Prep Batch:	12365	Sample Preparation:	2004-11-11	Prepared By:	MS

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.757	mg/Kg	10	0.100	76	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.826	mg/Kg	10	0.100	83	63.1 - 105

Sample: 48033 - MW-9 20'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14045	Date Analyzed:	2004-11-14	Analyzed By:	BP
Prep Batch:	12412	Sample Preparation:	2004-11-09	Prepared By:	BP

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		135	mg/Kg	1	150	90	69.8 - 106.1

Sample: 48033 - MW-9 20'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	13987	Date Analyzed:	2004-11-11	Analyzed By:	MS
Prep Batch:	12365	Sample Preparation:	2004-11-11	Prepared By:	MS

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.46	mg/Kg	10	0.100	146	68 - 129.6
4-Bromofluorobenzene (4-BFB)		0.950	mg/Kg	10	0.100	95	71.9 - 123.7

Method Blank (1) QC Batch: 13932

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00333	mg/Kg	0.001
Toluene		<0.00353	mg/Kg	0.001
Ethylbenzene		<0.00339	mg/Kg	0.001
Xylene		<0.0103	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.882	mg/Kg	10	0.100	88	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.533	mg/Kg	10	0.100	53	36.6 - 112

Method Blank (1) QC Batch: 13935

Parameter	Flag	MDL Result	Units	RL
GRO		2.04	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[1]	1.19	mg/Kg	10	0.100	119	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.683	mg/Kg	10	0.100	68	50.7 - 113

Method Blank (1) QC Batch: 13985

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00333	mg/Kg	0.001
Toluene		<0.00353	mg/Kg	0.001
Ethylbenzene		<0.00339	mg/Kg	0.001
Xylene		<0.0103	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	10	0.100	103	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.663	mg/Kg	10	0.100	66	36.6 - 112

Method Blank (1) QC Batch: 13987

Parameter	Flag	MDL Result	Units	RL
GRO		<0.381	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	1.25	mg/Kg	10	0.100	125	81.8 - 109

continued . . .

[1]High surrogate recovery due to unknown anomaly. ICV/CCV show the method to be in control.
[2]High TFT surrogate recovery due to prep. BFB surrogate recovery shows the analysis to be in control.

method blank continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.749	mg/Kg	10	0.100	75	50.7 - 113

Method Blank (1) QC Batch: 14035

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00333	mg/Kg	0.001
Toluene		<0.00353	mg/Kg	0.001
Ethylbenzene		<0.00339	mg/Kg	0.001
Xylene		<0.0103	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	10	0.100	102	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.813	mg/Kg	10	0.100	81	36.6 - 112

Method Blank (1) QC Batch: 14036

Parameter	Flag	MDL Result	Units	RL
GRO		<0.381	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[3]	1.22	mg/Kg	10	0.100	122	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.917	mg/Kg	10	0.100	92	50.7 - 113

Method Blank (2) QC Batch: 14045

Parameter	Flag	MDL Result	Units	RL
DRO		<12.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		136	mg/Kg	1	150	91	69.8 - 106.1

Method Blank (3) QC Batch: 14045

Parameter	Flag	MDL Result	Units	RL
DRO		<12.0	mg/Kg	50

[3]High TFT surrogate recovery due to prep. BFB surrogate recovery shows the method to be in control.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		111	mg/Kg	1	150	74	69.8 - 106.1

Laboratory Control Spike (LCS-1) QC Batch: 13932

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.982	0.993	mg/Kg	10	0.100	<0.0333	98	1	79.8 - 114	20
Toluene	0.936	0.944	mg/Kg	10	0.100	<0.0353	94	1	79.7 - 115	20
Ethylbenzene	0.916	0.925	mg/Kg	10	0.100	<0.0339	92	1	78.7 - 116	20
Xylene	2.60	2.63	mg/Kg	10	0.300	<0.103	87	1	78.7 - 118	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)	0.905	0.923	mg/Kg	10	0.100	90	92	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.805	0.827	mg/Kg	10	0.100	80	83	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 13935

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.92	9.89	mg/Kg	10	1.00	<0.381	99	0	88.8 - 102.4	21

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)	[45]	1.15	1.17	mg/Kg	10	0.100	115	117	80.4 - 113
4-Bromofluorobenzene (4-BFB)		0.999	1.03	mg/Kg	10	0.100	100	103	72.2 - 119

Laboratory Control Spike (LCS-1) QC Batch: 13985

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	1.04	0.980	mg/Kg	10	0.100	<0.0333	104	6	79.8 - 114	20
Toluene	1.00	0.950	mg/Kg	10	0.100	<0.0353	100	5	79.7 - 115	20
Ethylbenzene	1.03	0.980	mg/Kg	10	0.100	<0.0339	103	5	78.7 - 116	20
Xylene	2.90	2.75	mg/Kg	10	0.300	<0.103	97	5	78.7 - 118	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)	1.09	1.05	mg/Kg	10	0.100	109	105	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.976	0.948	mg/Kg	10	0.100	98	95	72.2 - 111

[4]High surrogate recovery due to unknown anomaly. Other analyte recoveries show the method to be in control.
[5]High surrogate recovery due to unknown anomaly. Other analyte recoveries show the method to be in control.

Laboratory Control Spike (LCS-1) QC Batch: 13987

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	10.1	10.0	mg/Kg	10	1.00	<0.381	101	1	88.8 - 102.4	21

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	1.07	mg/Kg	10	0.100	107	107	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.926	0.931	mg/Kg	10	0.100	93	93	72.2 - 119

Laboratory Control Spike (LCS-1) QC Batch: 14035

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.978	0.993	mg/Kg	10	0.100	<0.0333	98	1	79.8 - 114	20
Toluene	0.953	0.970	mg/Kg	10	0.100	<0.0353	95	2	79.7 - 115	20
Ethylbenzene	1.00	1.02	mg/Kg	10	0.100	<0.0339	100	2	78.7 - 116	20
Xylene	2.82	2.87	mg/Kg	10	0.300	<0.103	94	2	78.7 - 118	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)	1.03	1.01	mg/Kg	10	0.100	103	101	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.973	0.988	mg/Kg	10	0.100	97	99	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14036

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	11.8	10.6	mg/Kg	10	1.00	<0.381	118	11	88.8 - 102.4	21

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)	1.04	1.07	mg/Kg	10	0.100	104	107	80.4 - 113
4-Bromofluorobenzene (4-BFB)	1.04	1.08	mg/Kg	10	0.100	104	108	72.2 - 119

Laboratory Control Spike (LCS-2) QC Batch: 14045

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	241	213	mg/Kg	1	250	<12.0	96	12	78.7 - 117.6	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
n-Triacontane	148	138	mg/Kg	1	150	99	92	69.8 - 106.1

Laboratory Control Spike (LCS-3) QC Batch: 14045

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO [6]	193	236	mg/Kg	1	250	<12.0	77	20	78.7 - 117.6	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
n-Triacontane	105	114	mg/Kg	1	150	70	76	69.8 - 106.1

Matrix Spike (MS-1) QC Batch: 13985 Spiked Sample: 48029

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.859	0.880	mg/Kg	10	0.100	<0.0333	86	2	63.5 - 98.6	20
Toluene	0.856	0.902	mg/Kg	10	0.100	<0.0353	86	5	65.8 - 102	20
Ethylbenzene	0.921	0.973	mg/Kg	10	0.100	<0.0339	92	5	66.6 - 106	20
Xylene	2.60	2.74	mg/Kg	10	0.300	<0.103	87	5	67.4 - 108	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)	0.915	0.939	mg/Kg	10	0.1	92	94	60.1 - 104
4-Bromofluorobenzene (4-BFB)	0.926	0.974	mg/Kg	10	0.1	93	97	63.1 - 105

Matrix Spike (MS-1) QC Batch: 13987 Spiked Sample: 48029

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO [7,8]	7.98	10.2	mg/Kg	10	1.00	<0.381	80	24	54.2 - 156.3	19.6

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.977	1.23	mg/Kg	10	0.1	98	123	10 - 160
4-Bromofluorobenzene (4-BFB)	1.11	1.08	mg/Kg	10	0.1	111	108	10 - 174

Matrix Spike (MS-1) QC Batch: 14036 Spiked Sample: 47998

[6]LCS out of control chart limits but within method limits.
[7]RPD out. LCS/LCSD shows the analysis to be in control.
[8]RPD out. LCS/LCSD shows the analysis to be in control.

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	9.33	10.0	mg/Kg	10	1.00	<0.381	93	7	54.2 - 156.3	19.6

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.917	0.845	mg/Kg	10	0.1	92	84	10 - 160
4-Bromofluorobenzene (4-BFB)	1.11	1.08	mg/Kg	10	0.1	111	108	10 - 174

Matrix Spike (MS-3) QC Batch: 14045 Spiked Sample: 48033

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	214	215	mg/Kg	1	250	<12.0	86	0	67.7 - 110.5	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	137	142	mg/Kg	1	150	91	94	69.8 - 106.1

Standard (CCV-1) QC Batch: 13932

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.102	102	85 - 115	2004-11-09
Toluene		mg/Kg	0.100	0.0957	96	85 - 115	2004-11-09
Ethylbenzene		mg/Kg	0.100	0.0952	95	85 - 115	2004-11-09
Xylene		mg/Kg	0.300	0.273	91	85 - 115	2004-11-09

Standard (CCV-2) QC Batch: 13932

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0970	97	85 - 115	2004-11-09
Toluene		mg/Kg	0.100	0.0923	92	85 - 115	2004-11-09
Ethylbenzene		mg/Kg	0.100	0.0909	91	85 - 115	2004-11-09
Xylene		mg/Kg	0.300	0.261	87	85 - 115	2004-11-09

Standard (CCV-1) QC Batch: 13935

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.962	96	85 - 115	2004-11-09

Standard (CCV-2) QC Batch: 13935

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.05	105	85 - 115	2004-11-09

Standard (ICV-1) QC Batch: 13985

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0905	90	85 - 115	2004-11-11
Toluene		mg/Kg	0.100	0.0874	87	85 - 115	2004-11-11
Ethylbenzene		mg/Kg	0.100	0.0907	91	85 - 115	2004-11-11
Xylene		mg/Kg	0.300	0.255	85	85 - 115	2004-11-11

Standard (CCV-1) QC Batch: 13985

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0993	99	85 - 115	2004-11-11
Toluene		mg/Kg	0.100	0.0993	99	85 - 115	2004-11-11
Ethylbenzene		mg/Kg	0.100	0.101	101	85 - 115	2004-11-11
Xylene		mg/Kg	0.300	0.280	93	85 - 115	2004-11-11

Standard (ICV-1) QC Batch: 13987

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.992	99	85 - 115	2004-11-11

Standard (CCV-1) QC Batch: 13987

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.15	115	85 - 115	2004-11-11

Standard (ICV-1) QC Batch: 14035

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0993	99	85 - 115	2004-11-15
Toluene		mg/Kg	0.100	0.0973	97	85 - 115	2004-11-15
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2004-11-15
Xylene		mg/Kg	0.300	0.288	96	85 - 115	2004-11-15

Standard (CCV-1) QC Batch: 14035

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0958	96	85 - 115	2004-11-15
Toluene		mg/Kg	0.100	0.0933	93	85 - 115	2004-11-15
Ethylbenzene		mg/Kg	0.100	0.0976	98	85 - 115	2004-11-15
Xylene		mg/Kg	0.300	0.274	91	85 - 115	2004-11-15

Standard (ICV-1) QC Batch: 14036

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.13	113	85 - 115	2004-11-15

Standard (CCV-1) QC Batch: 14036

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.04	104	85 - 115	2004-11-15

Standard (CCV-5) QC Batch: 14045

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	194	78	75 - 125	2004-11-14

Standard (CCV-6) QC Batch: 14045

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	272	109	75 - 125	2004-11-14

Standard (ICV-3) QC Batch: 14045

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	269	108	75 - 125	2004-11-14

Standard (CCV-7) QC Batch: 14045

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	271	108	75 - 125	2004-11-14

Page 1 of 2

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Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4110907

Company Name: PLAINS Phone #:

Address: (Street, City, Zip) HOUSTON Fax #:

Contact Person: c/o TERRY MILTON

Invoice to: (If different from above)

Project #: ~~TNM~~ Project Name: TNM MONUMENT 11

Project Location: MONUMENT, LEA CO. NM Sampler Signature: Guy Eaton

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2004)	TIME	MTBE 8021B/602	BTEX 8021B~~/602~~	TPH ~~418.1/TX1005~~ Mod 8015 (Dro-Gro)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD TSS pH						Turn Around Time if different from standard	Hold
48019	MW 5 - 10'	1	40Z		X							X		11/3	11:20		X	X																		
20	MW 5 - 15'	1												11	11:30																					X
21	MW 5 - 18'	1												"	11:45		X	X																		
22	MW 6 - 5'	1																																		X
23	MW 6 - 10'	1												11	2:40		X	X																		
24	MW 6 - 15'	1													2:50																					X
25	MW 6 - 20'	1													3:00		X	X																		
26	MW 6 - 25'	1													3:15																					X
27	MW 6 - 30'	1													3:25																					X
28	MW 6 - 35'	1													3:30																					X
29	MW 6 - 40'	1													3:40		X	X																		

Relinquished by: Guy Eaton Date: 11/8/04 Time: 4:00
Received by: Helen Shelton Date: 11/08/04 Time: 1600

Relinquished by: Helen Shelton Date: 11/08/04 Time: 1700
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Date: 11-9-04 Time: 10:40

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 11 Samples - HS

ORIGINAL COPY

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4.0 °
Log-in Review

REMARKS:
FAX Results to
NOVA 432/520 7701
Craig Eschberger

☐ Check If Special Reporting Limits Are Needed

Carrier # Lone Star Courier 852085

Page 2 of 2

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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4110907

Company Name: PLAINS Phone #:

Address: (Street, City, Zip) HOUSTON Fax #:

Contact Person: C/O TEDDY MILTON

Invoice to: (If different from above)

Project #: Project Name: TNM Monument 17

Project Location: Monument Ft LEA CO NM Sampler Signature: Craig Esch

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE 2004	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 (MOD 8015 (DRO-GRO))	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD TSS pH	Turn Around Time if different from standard	Hold
48030	MW 9 - 5'	1	402		X							X		11/4	7:45																X
31	MW 9 - 10'	1			X							X			7:55		X	X													
32	MW 9 - 15'	1			X							X			8:00																X
33	MW 9 - 20'	1			X							X			8:10		X	X													

Relinquished by: Craig Esch Date: 11/8/04 Time: 4:00
Received by: Helen Shelton Date: 11/08/04 Time: 1600

Relinquished by: Helen Shelton Date: 11/08/04 Time: 1700
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Vicki Date: 11-9-04 Time: 10:40

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 4 samples - HS

ORIGINAL COPY

LAB USE ONLY

Intact (Y) N
Headspace Y / N
Temp 4° °
Log-in Review

REMARKS:
FAX Results to NOVA
432/520-7701
c/o CRAIG ESCHBERGER

☐ Check If Special Reporting Limits Are Needed

Carrier # Lone Star Lovington RS24085

Summary Report

Todd Choban
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: November 18, 2004

Work Order: 4111306

Project Location: Monument Lea Co.,NM
Project Name: Monument #17

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
48414	MW-9	water	2004-11-10	14:05	2004-11-13

	BTEX			
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
48414 - MW-9	<0.00100	<0.00100	<0.00100	<0.00100

Summary Report

Todd Choban
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 22, 2004

Work Order: 4121513

Project Location: Monument Lea Co.,NM
Project Name: Monument #17

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
50622	MW-1	water	2004-12-13	10:17	2004-12-15
50623	MW-2	water	2004-12-13	09:52	2004-12-15
50624	MW-3	water	2004-12-13	10:21	2004-12-15
50625	MW-4	water	2004-12-13	08:06	2004-12-15
50626	MW-5	water	2004-12-13	08:29	2004-12-15
50627	MW-6	water	2004-12-13	08:58	2004-12-15
50628	MW-7	water	2004-12-13	11:15	2004-12-15
50629	MW-8	water	2004-12-13	09:25	2004-12-15

	BTEX			
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
50622 - MW-1	<0.00100	<0.00100	<0.00100	<0.00100
50623 - MW-2	0.00670	<0.00100	<0.00100	<0.00100
50624 - MW-3	0.0598	<0.00500	0.0362	<0.00500
50625 - MW-4	<0.00100	<0.00100	<0.00100	<0.00100
50626 - MW-5	0.00120	<0.00100	<0.00100	<0.00100
50627 - MW-6	<0.00500	<0.00500	<0.00500	<0.00500
50628 - MW-7	<0.00500	<0.00500	<0.00500	<0.00500
50629 - MW-8	<0.00100	<0.00100	<0.00100	<0.00100

TRACEANALYSIS, INC.

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E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: April 1, 2005

Work Order: 5032520

Project Location: Monument Lea Co.,NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
58256	MW-1	water	2005-03-14	11:05	2005-03-25
58257	MW-2	water	2005-03-14	12:00	2005-03-25
58258	MW-3	water	2005-03-14	11:32	2005-03-25
58259	MW-7	water	2005-03-14	12:28	2005-03-25
58260	MW-9	water	2005-03-14	10:38	2005-03-25

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

Blair Leftwich

Dr. Blair Leftwich, Director

Analytical Report

Sample: 58256 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	16918	Date Analyzed:	2005-03-26	Analyzed By:	JG
Prep Batch:	14913	Sample Preparation:	2005-03-26	Prepared By:	JG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00590**		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)		0.0887	mg/L	1	0.100	89	75.1 - 112
4-Bromofluorobenzene (4-BFB)	[1]	0.0337	mg/L	1	0.100	34	49.1 - 106

Sample: 58257 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	16918	Date Analyzed:	2005-03-26	Analyzed By:	JG
Prep Batch:	14913	Sample Preparation:	2005-03-26	Prepared By:	JG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0180**		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)		0.0880	mg/L	1	0.100	88	75.1 - 112
4-Bromofluorobenzene (4-BFB)	[2]	0.0320	mg/L	1	0.100	32	49.1 - 106

Sample: 58258 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	16918	Date Analyzed:	2005-03-26	Analyzed By:	JG
Prep Batch:	14913	Sample Preparation:	2005-03-26	Prepared By:	JG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00530**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00260**		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

[1] BFB out of control. TFT within acceptable limits showing analysis to be in control. •
[2] BFB out of control. TFT within acceptable limits showing analysis to be in control. •

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0939	mg/L	1	0.100	94	75.1 - 112
4-Bromofluorobenzene (4-BFB)		0.0629	mg/L	1	0.100	63	49.1 - 106

Sample: 58259 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	17026	Date Analyzed:	2005-03-30	Analyzed By:	JG
Prep Batch:	15006	Sample Preparation:	2005-03-30	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[3]	<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)		0.472	mg/L	5	0.100	94	75.1 - 112
4-Bromofluorobenzene (4-BFB)		0.491	mg/L	5	0.100	98	49.1 - 106

Sample: 58260 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	16918	Date Analyzed:	2005-03-26	Analyzed By:	JG
Prep Batch:	14913	Sample Preparation:	2005-03-26	Prepared By:	JG

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)		0.0894	mg/L	1	0.100	89	75.1 - 112
4-Bromofluorobenzene (4-BFB)	[4]	0.0345	mg/L	1	0.100	34	49.1 - 106

Method Blank (1) QC Batch: 16918

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000153	mg/L	0.001
Ethylbenzene		<0.000226	mg/L	0.001
Xylene		<0.00531	mg/L	0.001

[3]Sample ran at a dilution due to carryover.
[4]BFB out of control. TFT within acceptable limits showing analysis to be in control. ●

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0889	mg/L	1	0.100	89	75.1 - 112
4-Bromofluorobenzene (4-BFB)	[5]	0.0335	mg/L	1	0.100	34	49.1 - 106

Method Blank (1) QC Batch: 17026

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000153	mg/L	0.001
Ethylbenzene		<0.000226	mg/L	0.001
Xylene		<0.00531	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0981	mg/L	1	0.100	98	75.1 - 112
4-Bromofluorobenzene (4-BFB)		0.0985	mg/L	1	0.100	98	49.1 - 106

Laboratory Control Spike (LCS-1) QC Batch: 16918

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0979	0.0980	mg/L	1	0.100	<0.000255	98	0	83.2 - 110	8.5
Toluene	0.0946	0.0949	mg/L	1	0.100	<0.000153	95	0	84.5 - 110	6
Ethylbenzene	0.0906	0.0909	mg/L	1	0.100	<0.000226	91	0	82.8 - 111	6
Xylene	0.265	0.266	mg/L	1	0.300	<0.000531	88	0	82.3 - 113	6.4

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)	0.0989	0.0987	mg/L	1	0.100	99	99	74.7 - 112
4-Bromofluorobenzene (4-BFB)	0.0845	0.0835	mg/L	1	0.100	84	84	69.4 - 111

Laboratory Control Spike (LCS-1) QC Batch: 17026

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0990	0.101	mg/L	1	0.100	<0.000255	99	2	83.2 - 110	8.5
Toluene	0.0990	0.100	mg/L	1	0.100	<0.000153	99	1	84.5 - 110	6
Ethylbenzene	0.101	0.102	mg/L	1	0.100	<0.000226	101	1	82.8 - 111	6
Xylene	0.298	0.302	mg/L	1	0.300	<0.000531	99	1	82.3 - 113	6.4

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)	0.0982	0.0975	mg/L	1	0.100	98	98	74.7 - 112

continued . . .

[5]BFB out of control. TFT within acceptable limits showing analysis to be in control. ●

control spikes continued . . .

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.101	0.100	mg/L	1	0.100	101	100	69.4 - 111

Standard (ICV-1) QC Batch: 16918

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0982	98	85 - 115	2005-03-26
Toluene		mg/L	0.100	0.0951	95	85 - 115	2005-03-26
Ethylbenzene		mg/L	0.100	0.0918	92	85 - 115	2005-03-26
Xylene		mg/L	0.300	0.269	90	85 - 115	2005-03-26

Standard (CCV-1) QC Batch: 16918

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0987	99	85 - 115	2005-03-26
Toluene		mg/L	0.100	0.0951	95	85 - 115	2005-03-26
Ethylbenzene		mg/L	0.100	0.0912	91	85 - 115	2005-03-26
Xylene		mg/L	0.300	0.267	89	85 - 115	2005-03-26

Standard (CCV-2) QC Batch: 16918

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2005-03-26
Toluene		mg/L	0.100	0.0973	97	85 - 115	2005-03-26
Ethylbenzene		mg/L	0.100	0.0935	94	85 - 115	2005-03-26
Xylene		mg/L	0.300	0.275	92	85 - 115	2005-03-26

Standard (ICV-1) QC Batch: 17026

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	2005-03-30
Toluene		mg/L	0.100	0.102	102	85 - 115	2005-03-30
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2005-03-30
Xylene		mg/L	0.300	0.306	102	85 - 115	2005-03-30

Standard (CCV-1) QC Batch: 17026

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	85 - 115	2005-03-30

continued . . .

standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.102	102	85 - 115	2005-03-30
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2005-03-30
Xylene		mg/L	0.300	0.306	102	85 - 115	2005-03-30

Page 1 of 1

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TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 5032520

Company Name: NOVA Phone #: 432 520 7720

Address: (Street, City, Zip) 2057 Commerce Fax #:

e-mail:

Contact Person: Curt Stanley

Invoice to: (If different from above) Plains

Project #: TNM Monument #17 Project Name: Monument #17

Project Location: Monument Sampler Signature: J. Curtis Arguello

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	TX 1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD TSS pH	Moisture Content	Turn Around Time if different from standard	Hold
58256	MW-1	3	✓	X				X				X		3/24/05	1105		X																
257	MW-2														1200																		
258	MW-3														1132																		
259	MW-7														1228																		
260	MW-9														1038																		

Relinquished by: J. Curtis Arguello Date: 3/24/05 Time: 900 Received by: Helen Shelton Date: 3/24/05 Time: 0900

Relinquished by: Helen Shelton Date: 3/24/05 Time: 1930 Received by: Date: Time:

Relinquished by: Date: Time: Received at Laboratory by: Brenda Ward Date: 3/25/05 Time: 11:29

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 15 samples-115

ORIGINAL COPY

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp 4 °

Log-in Review BB

REMARKS:

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Carrier # Lone Star P924225

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

Todd Choban
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: July 8, 2005

Work Order: 5062908

Project Location: Monument Lea Co.,NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
66717	MW-1	water	2005-06-24	08:10	2005-06-29
66718	MW-2	water	2005-06-24	08:44	2005-06-29
66719	MW-3	water	2005-06-24	09:15	2005-06-29
66720	MW-4	water	2005-06-24	09:47	2005-06-29
66721	MW-6	water	2005-06-24	10:51	2005-06-29
66722	MW-7	water	2005-06-24	11:23	2005-06-29
66723	MW-9	water	2005-06-24	12:28	2005-06-29

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

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

Dr. Blair Leftwich, Director

Analytical Report

Sample: 66717 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	19345	Date Analyzed:	2005-07-01	Analyzed By:	
Prep Batch:	17008	Sample Preparation:	2005-07-01	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0413**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.0168**		mg/L	1	0.00100
Xylene		**0.00840**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.114	mg/L	1	0.100	114	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.118	mg/L	1	0.100	118	17.1 - 138

Sample: 66718 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	19345	Date Analyzed:	2005-07-01	Analyzed By:	
Prep Batch:	17008	Sample Preparation:	2005-07-01	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00360**		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)		0.116	mg/L	1	0.100	116	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.119	mg/L	1	0.100	119	17.1 - 138

Sample: 66719 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	19345	Date Analyzed:	2005-07-01	Analyzed By:	
Prep Batch:	17008	Sample Preparation:	2005-07-01	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0308**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00400**		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)		0.115	mg/L	1	0.100	115	48.4 - 119
4-Bromofluorobenzene (4-BFB)	[1]	0.174	mg/L	1	0.100	174	17.1 - 138

Sample: 66720 - MW-4

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	19345	Date Analyzed:	2005-07-01	Analyzed By:	
Prep Batch:	17008	Sample Preparation:	2005-07-01	Prepared By:	

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)		0.114	mg/L	1	0.100	114	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.116	mg/L	1	0.100	116	17.1 - 138

Sample: 66721 - MW-6

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	19375	Date Analyzed:	2005-07-01	Analyzed By:	MT
Prep Batch:	17030	Sample Preparation:	2005-07-01	Prepared By:	MT

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)		0.105	mg/L	1	0.100	105	73.8 - 121
4-Bromofluorobenzene (4-BFB)		0.0997	mg/L	1	0.100	100	52.4 - 119

Sample: 66722 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	19498	Date Analyzed:	2005-07-07	Analyzed By:	
Prep Batch:	17138	Sample Preparation:	2005-07-07	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0129**	mg/L	5	0.00100

[1]High surrogate recovery due to peak interference.

continued . . .

sample 66722 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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)		0.525	mg/L	5	0.100	105	73.8 - 121
4-Bromofluorobenzene (4-BFB)		0.542	mg/L	5	0.100	108	52.4 - 119

Sample: 66723 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	19345	Date Analyzed:	2005-07-01	Analyzed By:	
Prep Batch:	17008	Sample Preparation:	2005-07-01	Prepared By:	

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)		0.113	mg/L	1	0.100	113	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	17.1 - 138

Method Blank (1) QC Batch: 19345

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000650	mg/L	0.001
Toluene		<0.00101	mg/L	0.001
Ethylbenzene		<0.000840	mg/L	0.001
Xylene		<0.000737	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0960	mg/L	1	0.100	96	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0969	mg/L	1	0.100	97	17.1 - 138

Method Blank (1) QC Batch: 19375

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000136	mg/L	0.001
Toluene		<0.000247	mg/L	0.001
Ethylbenzene		<0.000552	mg/L	0.001
Xylene		<0.00156	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	73.8 - 121
4-Bromofluorobenzene (4-BFB)		0.0972	mg/L	1	0.100	97	52.4 - 113

Method Blank (1) QC Batch: 19498

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000136	mg/L	0.001
Toluene		<0.000247	mg/L	0.001
Ethylbenzene		<0.000552	mg/L	0.001
Xylene		<0.00156	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	73.8 - 121
4-Bromofluorobenzene (4-BFB)		0.0995	mg/L	1	0.100	100	52.4 - 113

Laboratory Control Spike (LCS-1) QC Batch: 19345

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.101	0.0978	mg/L	1	0.100	<0.000650	101	3	81.9 - 114	20
Toluene	0.100	0.0972	mg/L	1	0.100	<0.00101	100	3	82.8 - 112	20
Ethylbenzene	0.103	0.100	mg/L	1	0.100	<0.000840	103	3	82.2 - 111	20
Xylene	0.316	0.308	mg/L	1	0.300	<0.000737	105	3	83.5 - 112	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)	0.0961	0.0955	mg/L	1	0.100	96	96	48.4 - 119
4-Bromofluorobenzene (4-BFB)	0.0951	0.0938	mg/L	1	0.100	95	94	17.1 - 138

Laboratory Control Spike (LCS-1) QC Batch: 19375

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0987	0.0992	mg/L	1	0.100	<0.000136	99	0	72.8 - 113	20
Toluene	0.0962	0.0970	mg/L	1	0.100	<0.000247	96	1	75.2 - 112	20
Ethylbenzene	0.103	0.103	mg/L	1	0.100	<0.000550	103	0	81 - 112	20

continued . . .

control spikes continued . . .

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Xylene	0.331	0.334	mg/L	1	0.300	<0.00156	110	1	82.9 - 119	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	0.106	mg/L	1	0.100	107	106	72.9 - 121
4-Bromofluorobenzene (4-BFB)	0.109	0.108	mg/L	1	0.100	109	108	77.8 - 119

Laboratory Control Spike (LCS-1) QC Batch: 19498

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0989	0.101	mg/L	1	0.100	<0.000136	99	2	72.8 - 113	20
Toluene	0.0963	0.0989	mg/L	1	0.100	<0.000247	96	3	75.2 - 112	20
Ethylbenzene	0.103	0.105	mg/L	1	0.100	<0.000550	103	2	81 - 112	20
Xylene	0.333	0.339	mg/L	1	0.300	<0.00156	111	2	82.9 - 119	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.108	0.110	mg/L	1	0.100	108	110	72.9 - 121
4-Bromofluorobenzene (4-BFB)	0.110	0.112	mg/L	1	0.100	110	112	77.8 - 119

Matrix Spike (MS-1) QC Batch: 19345 Spiked Sample: 66714

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	[2,3]	0.149	n/a	mg/L	1	0.100	<0.000650	149	200	81.9 - 114	20
Toluene	[4,5]	0.129	n/a	mg/L	1	0.100	<0.00101	129	200	82.8 - 112	20
Ethylbenzene	[6,7]	0.133	n/a	mg/L	1	0.100	<0.000840	133	200	82.2 - 111	20
Xylene	[8,9]	0.416	n/a	mg/L	1	0.300	<0.000737	139	200	83.5 - 112	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)	[10,11]	0.121	n/a	mg/L	1	0.1	121	0	65.4 - 116

continued . . .

[2]Matrix spike outside normal limits. LCS/LCSD shows the method to be in control.
[3]RPD is out of range because a matrix spike duplicate was not prepared. ●
[4]Matrix spike outside normal limits. LCS/LCSD shows the method to be in control.
[5]RPD is out of range because a matrix spike duplicate was not prepared.
[6]Matrix spike outside normal limits. LCS/LCSD shows the method to be in control.
[7]RPD is out of range because a matrix spike duplicate was not prepared.
[8]Matrix spike outside normal limits. LCS/LCSD shows the method to be in control.
[9]RPD is out of range because a matrix spike duplicate was not prepared.
[10]Matrix spike outside normal limits. LCS/LCSD shows the method to be in control.
[11]RPD is out of range because a matrix spike duplicate was not prepared.

matrix spikes continued . . .

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	[12][13]	0.118	n/a	mg/L	1	0.1	118	0	75.7 - 116

Standard (ICV-1) QC Batch: 19345

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.105	105	85 - 115	2005-07-01
Toluene		mg/L	0.100	0.100	100	85 - 115	2005-07-01
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2005-07-01
Xylene		mg/L	0.300	0.315	105	85 - 115	2005-07-01

Standard (CCV-1) QC Batch: 19345

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	85 - 115	2005-07-01
Toluene		mg/L	0.100	0.111	111	85 - 115	2005-07-01
Ethylbenzene		mg/L	0.100	0.112	112	85 - 115	2005-07-01
Xylene	[14]	mg/L	0.300	0.347	116	85 - 115	2005-07-01

Standard (CCV-2) QC Batch: 19345

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	2005-07-01
Toluene		mg/L	0.100	0.110	110	85 - 115	2005-07-01
Ethylbenzene		mg/L	0.100	0.112	112	85 - 115	2005-07-01
Xylene	[15]	mg/L	0.300	0.347	116	85 - 115	2005-07-01

Standard (ICV-1) QC Batch: 19375

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0987	99	85 - 115	2005-07-01
Toluene		mg/L	0.100	0.0967	97	85 - 115	2005-07-01
Ethylbenzene		mg/L	0.100	0.104	104	85 - 115	2005-07-01
Xylene		mg/L	0.300	0.334	111	85 - 115	2005-07-01

Standard (CCV-1) QC Batch: 19375

[12]Matrix spike outside normal limits. LCS/LCSD shows the method to be in control.
[13]RPD is out of range because a matrix spike duplicate was not prepared.
[14]Xylene outside of control limits on CCV(ICV). CCV(ICV) component average is 111 which is within acceptable range. This is acceptable by Method 8000.
[15]Xylene outside of control limits on CCV(ICV). CCV(ICV) component average is 111 which is within acceptable range. This is acceptable by Method 8000.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0988	99	85 - 115	2005-07-01
Toluene		mg/L	0.100	0.0974	97	85 - 115	2005-07-01
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2005-07-01
Xylene		mg/L	0.300	0.333	111	85 - 115	2005-07-01

Standard (ICV-1) QC Batch: 19498

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0984	98	85 - 115	2005-07-07
Toluene		mg/L	0.100	0.0964	96	85 - 115	2005-07-07
Ethylbenzene		mg/L	0.100	0.104	104	85 - 115	2005-07-07
Xylene		mg/L	0.300	0.336	112	85 - 115	2005-07-07

Standard (CCV-1) QC Batch: 19498

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	2005-07-07
Toluene		mg/L	0.100	0.0981	98	85 - 115	2005-07-07
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2005-07-07
Xylene		mg/L	0.300	0.339	113	85 - 115	2005-07-07

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TraceAnalysis, Inc.

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El Paso, Texas 79932
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 5062908

Company Name: NOVA
Phone #: 432 520-7720
Address: (Street, City, Zip) 2057 Commerce Dr, Midland, TX 79703
Fax #: 432-520-7701
e-mail:
Contact Person: TODD CHOBAN
Invoice to: (If different from above) PLAINS
Project #: TNM-Monument #17
Project Name: Monument #17
Project Location: Monument #17
Sampler Signature: R. Ambis

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
66717	MW1	3	VOA	X				X				X		6-24-05	0810
18	MW2	↓	↓	↓				↓				↓		↓	0844
19	MW3														0915
20	MW4														0947
21	MW6														1051
22	MW7														1123
23	MW9	↓	↓	↓				↓				↓		↓	1226

ANALYSIS REQUEST	
MTBE 8021B/602	
BTEX 8021B/602	X
TPH 418.1/TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol 8260B/624	
GC/MS Semi Vol 8270C/625	
PCB's 8082/608	
Pesticides 8081A/608	
BOD TSS pH	
Moisture Content	
Turn Around Time if different from standard	
Hold	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
R. Ambis	6/27/05	0950	Curtis Stanley	6/27/05	0950
	6/27/05	1700	Melissa Brantley	6/27/05	1700
Melissa Brantley	6/27/05	1745		6-28-05	10:01

Relinquished by: / Received by: / Received at Laboratory by:

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

21 samples

ORIGINAL COPY

LAB USE ONLY

Intact (Y) / N
Headspace Y / N
Temp 4 °
Log-in Review MA

REMARKS:

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

Carrier # UPS 1Z 939 455 28

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Todd Choban
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: September 12, 2005

Work Order: 5090910

Project Location: Monument Lea Co.,NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
72963	MW-1	water	2005-09-08	15:35	2005-09-09
72964	MW-2	water	2005-09-08	15:51	2005-09-09
72965	MW-3	water	2005-09-08	16:09	2005-09-09
72966	MW-9	water	2005-09-08	15:08	2005-09-09

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

Michael Abel

Dr. Blair Leftwich, Director

Analytical Report

Sample: 72963 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	21158	Date Analyzed:	2005-09-09	Analyzed By:	MT
Prep Batch:	18570	Sample Preparation:	2005-09-09	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0709**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00960**		mg/L	1	0.00100
Xylene		**0.00820**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0858	mg/L	1	0.100	86	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0918	mg/L	1	0.100	92	17.1 - 138

Sample: 72964 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	21158	Date Analyzed:	2005-09-09	Analyzed By:	MT
Prep Batch:	18570	Sample Preparation:	2005-09-09	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00750**		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)		0.0868	mg/L	1	0.100	87	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0888	mg/L	1	0.100	89	17.1 - 138

Sample: 72965 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	21158	Date Analyzed:	2005-09-09	Analyzed By:	MT
Prep Batch:	18570	Sample Preparation:	2005-09-09	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0141**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00220**		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)		0.0868	mg/L	1	0.100	87	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.144	mg/L	1	0.100	144	17.1 - 138

Sample: 72966 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	21158	Date Analyzed:	2005-09-09	Analyzed By:	MT
Prep Batch:	18570	Sample Preparation:	2005-09-09	Prepared By:	MT

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)		0.0854	mg/L	1	0.100	85	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0881	mg/L	1	0.100	88	17.1 - 138

Method Blank (1) QC Batch: 21158

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000650	mg/L	0.001
Toluene		<0.00101	mg/L	0.001
Ethylbenzene		<0.000840	mg/L	0.001
Xylene		<0.000737	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0858	mg/L	1	0.100	86	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0899	mg/L	1	0.100	90	17.1 - 138

Laboratory Control Spike (LCS-1) QC Batch: 21158

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0895	0.0912	mg/L	1	0.100	<0.000650	90	2	81.9 - 114	20
Toluene	0.0918	0.0933	mg/L	1	0.100	<0.00101	92	2	82.8 - 112	20
Ethylbenzene	0.0921	0.0925	mg/L	1	0.100	<0.000840	92	0	82.2 - 111	20
Xylene	0.278	0.282	mg/L	1	0.300	<0.000737	93	1	83.5 - 112	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)	0.0868	0.0876	mg/L	1	0.100	87	88	48.4 - 119
4-Bromofluorobenzene (4-BFB)	0.0890	0.0900	mg/L	1	0.100	89	90	17.1 - 138

Matrix Spike (MS-1) QC Batch: 21158 Spiked Sample: 73006

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	[1]	0.0852	NA	mg/L	1	0.100	<0.000650	85	200	81.9 - 114	20
Toluene	[2]	0.0878	NA	mg/L	1	0.100	<0.00101	88	200	82.8 - 112	20
Ethylbenzene	[3]	0.0885	NA	mg/L	1	0.100	<0.000840	88	200	82.2 - 111	20
Xylene	[4]	0.268	NA	mg/L	1	0.300	<0.000737	89	200	83.5 - 112	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]	0.0861	NA	mg/L	1	0.1	86	0	48.4 - 119
4-Bromofluorobenzene (4-BFB)	[6]	0.0895	NA	mg/L	1	0.1	90	0	17.1 - 138

Standard (ICV-1) QC Batch: 21158

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0911	91	85 - 115	2005-09-09
Toluene		mg/L	0.100	0.0932	93	85 - 115	2005-09-09
Ethylbenzene		mg/L	0.100	0.0929	93	85 - 115	2005-09-09
Xylene		mg/L	0.300	0.283	94	85 - 115	2005-09-09

Standard (CCV-1) QC Batch: 21158

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0884	88	85 - 115	2005-09-09
Toluene		mg/L	0.100	0.0899	90	85 - 115	2005-09-09
Ethylbenzene		mg/L	0.100	0.0890	89	85 - 115	2005-09-09
Xylene		mg/L	0.300	0.271	90	85 - 115	2005-09-09

[1]RPD is out of range because a matrix spike duplicate was not prepared.
[2]RPD is out of range because a matrix spike duplicate was not prepared.
[3]RPD is out of range because a matrix spike duplicate was not prepared.
[4]RPD is out of range because a matrix spike duplicate was not prepared.
[5]RPD is out of range because a matrix spike duplicate was not prepared.
[6]RPD is out of range because a matrix spike duplicate was not prepared.

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Analytical and Quality Control Report

Jennifer Lange
Nova Safety & Environmental
2057 Commerce St.
Midland, TX 79703

Report Date: December 8, 2005

Work Order: 5120532

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
79381	MW-1	water	2005-12-01	15:55	2005-12-05
79382	MW-2	water	2005-12-01	16:00	2005-12-05
79383	MW-3	water	2005-12-01	16:24	2005-12-05
79384	MW-4	water	2005-12-01	15:26	2005-12-05
79385	MW-5	water	2005-12-01	16:36	2005-12-05
79386	MW-7	water	2005-12-01	16:40	2005-12-05
79387	MW-8	water	2005-12-01	16:12	2005-12-05
79388	MW-9	water	2005-12-01	15:41	2005-12-05

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

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 79381 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	23203	Date Analyzed:	2005-12-05	Analyzed By:	MT
Prep Batch:	20354	Sample Preparation:	2005-12-05	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0848	mg/L	1	0.100	85	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0855	mg/L	1	0.100	86	70.6 - 129.2

Sample: 79382 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	23203	Date Analyzed:	2005-12-05	Analyzed By:	MT
Prep Batch:	20354	Sample Preparation:	2005-12-05	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0867	mg/L	1	0.100	87	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0821	mg/L	1	0.100	82	70.6 - 129.2

Sample: 79383 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	23203	Date Analyzed:	2005-12-05	Analyzed By:	MT
Prep Batch:	20354	Sample Preparation:	2005-12-05	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0275**		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	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.126	mg/L	1	0.100	126	70.6 - 129.2

Sample: 79384 - MW-4

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	23203	Date Analyzed:	2005-12-05	Analyzed By:	MT
Prep Batch:	20354	Sample Preparation:	2005-12-05	Prepared By:	MT

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)		0.0845	mg/L	1	0.100	84	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0832	mg/L	1	0.100	83	70.6 - 129.2

Sample: 79385 - MW-5

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	23203	Date Analyzed:	2005-12-05	Analyzed By:	MT
Prep Batch:	20354	Sample Preparation:	2005-12-05	Prepared By:	MT

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)		0.0855	mg/L	1	0.100	86	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0859	mg/L	1	0.100	86	70.6 - 129.2

Sample: 79386 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	23230	Date Analyzed:	2005-12-06	Analyzed By:	MT
Prep Batch:	20381	Sample Preparation:	2005-12-06	Prepared By:	MT

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

continued . . .

sample 79386 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
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)		0.482	mg/L	5	0.100	96	81.9 - 108
4-Bromofluorobenzene (4-BFB)		0.424	mg/L	5	0.100	85	80.2 - 104

Sample: 79387 - MW-8

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	23203	Date Analyzed:	2005-12-05	Analyzed By:	MT
Prep Batch:	20354	Sample Preparation:	2005-12-05	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0852	mg/L	1	0.100	85	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0809	mg/L	1	0.100	81	70.6 - 129.2

Sample: 79388 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	23203	Date Analyzed:	2005-12-05	Analyzed By:	MT
Prep Batch:	20354	Sample Preparation:	2005-12-05	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0848	mg/L	1	0.100	85	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0802	mg/L	1	0.100	80	70.6 - 129.2

Method Blank (1) QC Batch: 23203

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000650	mg/L	0.001
Toluene		<0.00101	mg/L	0.001
Ethylbenzene		<0.000840	mg/L	0.001
Xylene		<0.000737	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0866	mg/L	1	0.100	87	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0845	mg/L	1	0.100	84	17.1 - 138

Method Blank (1) QC Batch: 23230

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000153	mg/L	0.001
Ethylbenzene		<0.000226	mg/L	0.001
Xylene		<0.00531	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0971	mg/L	1	0.100	97	75.1 - 112
4-Bromofluorobenzene (4-BFB)		0.0783	mg/L	1	0.100	78	49.1 - 106

Laboratory Control Spike (LCS-1) QC Batch: 23203

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0898	0.0894	mg/L	1	0.100	<0.000650	90	0	80.8 - 120.7	20
Toluene	0.0903	0.0892	mg/L	1	0.100	<0.00101	90	1	81 - 120.8	20
Ethylbenzene	0.0933	0.0920	mg/L	1	0.100	<0.000840	93	1	82.1 - 121	20
Xylene	0.287	0.283	mg/L	1	0.300	<0.000737	96	1	82.4 - 123.3	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)	0.0932	0.0918	mg/L	1	0.100	93	92	48.4 - 119
4-Bromofluorobenzene (4-BFB)	0.101	0.0989	mg/L	1	0.100	101	99	17.1 - 138

Laboratory Control Spike (LCS-1) QC Batch: 23230

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.103	0.101	mg/L	1	0.100	<0.000255	103	2	87.4 - 103.7	8.5
Toluene	0.105	0.103	mg/L	1	0.100	<0.000153	105	2	86 - 107.4	6
Ethylbenzene	0.102	0.0996	mg/L	1	0.100	<0.000226	102	2	86.2 - 108.3	6

continued . . .

control spikes continued . . .

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Xylene	0.306	0.299	mg/L	1	0.300	<0.000531	102	2	84.5 - 107.9	6.4

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)	0.0979	0.103	mg/L	1	0.100	98	103	74.7 - 112
4-Bromofluorobenzene (4-BFB)	0.107	0.106	mg/L	1	0.100	107	106	69.4 - 111

Matrix Spike (MS-1) QC Batch: 23203 Spiked Sample: 79370

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	[1]	0.0961	NA	mg/L	1	0.100	<0.000650	96	200	72.6 - 135.5	20
Toluene	[2]	0.0962	NA	mg/L	1	0.100	<0.00101	96	200	71.4 - 134.5	20
Ethylbenzene	[3]	0.0997	NA	mg/L	1	0.100	<0.000840	100	200	76.2 - 126.1	20
Xylene	[4]	0.305	NA	mg/L	1	0.300	<0.000737	102	200	67.4 - 112	140.4

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]	0.0927	NA	mg/L	1	0.1	93	0	48.4 - 119
4-Bromofluorobenzene (4-BFB)	[6]	0.100	NA	mg/L	1	0.1	100	0	17.1 - 138

Matrix Spike (MS-1) QC Batch: 23230 Spiked Sample: 79427

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	[7]	0.110	NA	mg/L	1	0.100	<0.000255	110	200	86.8 - 130	20
Toluene	[8]	0.103	NA	mg/L	1	0.100	<0.000153	103	200	88.2 - 130	20
Ethylbenzene	[9]	0.118	NA	mg/L	1	0.100	<0.000226	118	200	83 - 130	20
Xylene	[10]	0.301	NA	mg/L	1	0.300	<0.000531	100	200	81 - 130	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)	[11]	0.0943	NA	mg/L	1	0.1	94	0	70 - 130

continued . . .

[1]RPD is out of range because a matrix spike duplicate was not prepared.
[2]RPD is out of range because a matrix spike duplicate was not prepared.
[3]RPD is out of range because a matrix spike duplicate was not prepared.
[4]RPD is out of range because a matrix spike duplicate was not prepared.
[5]RPD is out of range because a matrix spike duplicate was not prepared.
[6]RPD is out of range because a matrix spike duplicate was not prepared.
[7]RPD is out of range because a matrix spike duplicate was not prepared.
[8]RPD is out of range because a matrix spike duplicate was not prepared.
[9]RPD is out of range because a matrix spike duplicate was not prepared.
[10]RPD is out of range because a matrix spike duplicate was not prepared.
[11]RPD is out of range because a matrix spike duplicate was not prepared.

matrix spikes continued . . .

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	[12]	0.106	NA	mg/L	1	0.1	106	0	70 - 130

Standard (ICV-1) QC Batch: 23203

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0923	92	85 - 115	2005-12-05
Toluene		mg/L	0.100	0.0929	93	85 - 115	2005-12-05
Ethylbenzene		mg/L	0.100	0.0973	97	85 - 115	2005-12-05
Xylene		mg/L	0.300	0.299	100	85 - 115	2005-12-05

Standard (CCV-1) QC Batch: 23203

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0902	90	85 - 115	2005-12-05
Toluene		mg/L	0.100	0.0897	90	85 - 115	2005-12-05
Ethylbenzene		mg/L	0.100	0.0922	92	85 - 115	2005-12-05
Xylene		mg/L	0.300	0.282	94	85 - 115	2005-12-05

Standard (ICV-1) QC Batch: 23230

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	2005-12-06
Toluene		mg/L	0.100	0.105	105	85 - 115	2005-12-06
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2005-12-06
Xylene		mg/L	0.300	0.307	102	85 - 115	2005-12-06

Standard (CCV-1) QC Batch: 23230

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2005-12-06
Toluene		mg/L	0.100	0.0995	100	85 - 115	2005-12-06
Ethylbenzene		mg/L	0.100	0.0959	96	85 - 115	2005-12-06
Xylene		mg/L	0.300	0.287	96	85 - 115	2005-12-06

[12]RPD is out of range because a matrix spike duplicate was not prepared.

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
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Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 5120532

Company Name: NOVA
Phone #:
Address: (Street, City, Zip)
Fax #:
e-mail:
Contact Person: Curt Stanley
Invoice to: (If different from above) Plains
Project #: TNM - Monument # 17
Project Name: Monument # 17
Project Location: New Mexico
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2005)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	TX 1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content			Turn Around Time if different from standard	Hold
79381	mw-1	2	40ml	X				X				X		12/1	15:55		X																		
82	mw-2	2	40ml	X				X				X			16:00																				
83	mw-3	2	40ml	X				X				X			16:24																				
84	mw-4	2	40ml	X				X				X			15:26																				
85	MW-5	2	40ml	X				X				X			16:36																				
86	MW-7	2	40ml	X				X				X			16:40																				
87	MW-8	2	40ml	X				X				X			16:12																				
88	MW-9	2	40ml	X				X				X		X	15:41		X																		
	[illegible]																																		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	12/2/05	8:35	Helen Shelton	12/02/05	8:35
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Helen Shelton	12/2/05	1230			
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Megan McCord	12-5-05	1020

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 16-175

ORIGINAL COPY

LAB USE ONLY

Intact Y / N
Headspace Y / N
Temp 3° °
Log-in Review

REMARKS:

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

Carrier # Greyhound GL 168319779

Report Date: December 8, 2005
TNM Monument #17

Work Order: 5120532
Monument #17

Page Number: 8 of 8
New Mexico

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

Todd Choban
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: March 13, 2006

Work Order: 6030910

Project Location: Monument Lea Co.,NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
85586	MW-1	water	2006-03-07	14:01	2006-03-09
85587	MW-2	water	2006-03-07	14:17	2006-03-09
85588	MW-3	water	2006-03-07	15:39	2006-03-09
85589	MW-7	water	2006-03-07	14:38	2006-03-09
85590	MW-9	water	2006-03-07	15:03	2006-03-09

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

Dr. Blair Leftwich, Director

Analytical Report

Sample: 85586 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	25134	Date Analyzed:	2006-03-09	Analyzed By:	MT
Prep Batch:	22081	Sample Preparation:	2006-03-09	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0279**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.0106**		mg/L	1	0.00100
Xylene		**0.00660**		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	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		0.0980	mg/L	1	0.100	98	46.4 - 136.5

Sample: 85587 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	25134	Date Analyzed:	2006-03-09	Analyzed By:	MT
Prep Batch:	22081	Sample Preparation:	2006-03-09	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00520**		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)		0.0995	mg/L	1	0.100	100	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		0.0991	mg/L	1	0.100	99	46.4 - 136.5

Sample: 85588 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	25134	Date Analyzed:	2006-03-09	Analyzed By:	MT
Prep Batch:	22081	Sample Preparation:	2006-03-09	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0681**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00260**		mg/L	1	0.00100
Xylene		**0.00180**		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	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	46.4 - 136.5

Sample: 85589 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	25157	Date Analyzed:	2006-03-10	Analyzed By:	MT
Prep Batch:	22103	Sample Preparation:	2006-03-10	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.00120**	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)		0.0933	mg/L	1	0.100	93	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	70.6 - 129.2

Sample: 85590 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	25134	Date Analyzed:	2006-03-09	Analyzed By:	MT
Prep Batch:	22081	Sample Preparation:	2006-03-09	Prepared By:	MT

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)		0.0951	mg/L	1	0.100	95	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		0.0981	mg/L	1	0.100	98	46.4 - 136.5

Method Blank (1) QC Batch: 25134

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000153	mg/L	0.001
Toluene		<0.000283	mg/L	0.001
Ethylbenzene		<0.000621	mg/L	0.001
Xylene		<0.00137	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0971	mg/L	1	0.100	97	85.1 - 106
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	64.7 - 117

Method Blank (1) QC Batch: 25157

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000210	mg/L	0.001
Ethylbenzene		<0.000317	mg/L	0.001
Xylene		<0.00181	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0924	mg/L	1	0.100	92	76.1 - 117
4-Bromofluorobenzene (4-BFB)		0.0692	mg/L	1	0.100	69	58.5 - 118

Laboratory Control Spike (LCS-1) QC Batch: 25134

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.107	0.109	mg/L	1	0.100	<0.000153	107	2	80 - 120	20
Toluene	0.109	0.110	mg/L	1	0.100	<0.000283	109	1	80 - 120	20
Ethylbenzene	0.112	0.114	mg/L	1	0.100	<0.000621	112	2	80 - 120	20
Xylene	0.330	0.335	mg/L	1	0.300	<0.00137	110	2	80 - 120	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)	0.103	0.103	mg/L	1	0.100	103	103	80 - 120
4-Bromofluorobenzene (4-BFB)	0.104	0.106	mg/L	1	0.100	104	106	80 - 120

Laboratory Control Spike (LCS-1) QC Batch: 25157

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0894	0.0897	mg/L	1	0.100	<0.000255	89	0	80.8 - 112	20
Toluene	0.0888	0.0896	mg/L	1	0.100	<0.000210	89	1	78 - 114	20
Ethylbenzene	0.0879	0.0881	mg/L	1	0.100	<0.000317	88	0	78.6 - 116	20
Xylene	0.267	0.268	mg/L	1	0.300	<0.00181	89	0	83.2 - 112	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)	0.0935	0.0912	mg/L	1	0.100	94	91	79.9 - 117

continued . . .

control spikes continued . . .

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.0830	0.0809	mg/L	1	0.100	83	81	79 - 123

Matrix Spike (MS-1) QC Batch: 25134 Spiked Sample: 85606

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	[1,2]	0.122	NA	mg/L	1	0.100	<0.000153	122	200	88.4 - 114	20
Toluene	[3,4]	0.124	NA	mg/L	1	0.100	<0.000283	124	200	81.4 - 116	20
Ethylbenzene	[5,6]	0.126	NA	mg/L	1	0.100	<0.000621	126	200	82.5 - 118	20
Xylene	[7,8]	0.372	NA	mg/L	1	0.300	0.0014	124	200	77.9 - 117	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]	0.102	NA	mg/L	1	0.1	102	0	84 - 109
4-Bromofluorobenzene (4-BFB)	[10]	0.104	NA	mg/L	1	0.1	104	0	74 - 120

Standard (ICV-1) QC Batch: 25134

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.109	109	85 - 115	2006-03-09
Toluene		mg/L	0.100	0.111	111	85 - 115	2006-03-09
Ethylbenzene		mg/L	0.100	0.115	115	85 - 115	2006-03-09
Xylene		mg/L	0.300	0.339	113	85 - 115	2006-03-09

Standard (CCV-1) QC Batch: 25134

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	85 - 115	2006-03-09
Toluene		mg/L	0.100	0.108	108	85 - 115	2006-03-09
Ethylbenzene		mg/L	0.100	0.112	112	85 - 115	2006-03-09
Xylene		mg/L	0.300	0.335	112	85 - 115	2006-03-09

Standard (ICV-1) QC Batch: 25157

[1]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[2]RPD is out of range because a matrix spike duplicate was not prepared.
[3]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[4]RPD is out of range because a matrix spike duplicate was not prepared.
[5]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[6]RPD is out of range because a matrix spike duplicate was not prepared.
[7]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[8]RPD is out of range because a matrix spike duplicate was not prepared.
[9]RPD is out of range because a matrix spike duplicate was not prepared.
[10]RPD is out of range because a matrix spike duplicate was not prepared.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0899	90	85 - 115	2006-03-10
Toluene		mg/L	0.100	0.0904	90	85 - 115	2006-03-10
Ethylbenzene		mg/L	0.100	0.0897	90	85 - 115	2006-03-10
Xylene		mg/L	0.300	0.274	91	85 - 115	2006-03-10

Standard (CCV-1) QC Batch: 25157

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0906	91	85 - 115	2006-03-10
Toluene		mg/L	0.100	0.0905	90	85 - 115	2006-03-10
Ethylbenzene		mg/L	0.100	0.0895	90	85 - 115	2006-03-10
Xylene		mg/L	0.300	0.273	91	85 - 115	2006-03-10

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1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 6030910

Company Name: NOVA SAFETY & ENVIRONMENTAL
Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 COMMERCE
Fax #:
e-mail: 432 520 7701
Contact Person: Todd Choban
Invoice to: (If different from above) PLAINS
Project #: TNM - Monument #17
Project Name: Monument #17
Project Location: NM
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	TX 1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content				Turn Around Time if different from standard	Hold
85586	MW1	2	40mL	X				X				X		3/7/06	1401		X																			
87	MW2	↓	↓	↓				↓				↓		↓	1417		↓																			
88	MW3														1539																					
89	MW7														1438																					
90	MW9	↓	↓	↓				↓				↓		↓	1503		↓																			

Relinquished by: Date: 3/8/06 Time: 1810
Received by: Helen Shelton Date: 3/8/06 Time: 1810
Relinquished by: Helen Shelton Date: 3/8/06 Time: 1930
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Megan McCord Date: 3-9-06 Time: 0925

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

10-HS

ORIGINAL COPY

LAB USE ONLY

Intact (Y) / N
Headspace Y (N)
Temp 4 °
Log-in Review

REMARKS:

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

Carrier # Lone Star P1827763

Report Date: March 13, 2006
Monument #17

Work Order: 6030910
TNM Monument #17

Page Number: 7 of 7
Monument Lea Co.,NM

TRACEANALYSIS, INC.

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155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 14, 2006

Work Order: 6060814

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
92383	MW 4	water	2006-06-06	13:00	2006-06-08
92384	MW 9	water	2006-06-06	13:30	2006-06-08
92385	MW 7	water	2006-06-06	13:45	2006-06-08
92386	MW 2	water	2006-06-06	14:00	2006-06-08
92387	MW 1	water	2006-06-06	14:15	2006-06-08
92388	MW 3	water	2006-06-06	14:30	2006-06-08

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

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 92383 - MW 4

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27258	Date Analyzed:	2006-06-11	Analyzed By:	MT
Prep Batch:	23906	Sample Preparation:	2006-06-11	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0968	mg/L	1	0.100	97	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0889	mg/L	1	0.100	89	70.6 - 129.2

Sample: 92384 - MW 9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27258	Date Analyzed:	2006-06-11	Analyzed By:	MT
Prep Batch:	23906	Sample Preparation:	2006-06-11	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		**0.00360**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0948	mg/L	1	0.100	95	70.6 - 129.2

Sample: 92385 - MW 7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27308	Date Analyzed:	2006-06-13	Analyzed By:	KB
Prep Batch:	23948	Sample Preparation:	2006-06-13	Prepared By:	KB

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0937	mg/L	1	0.100	94	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	46.4 - 136.5

Sample: 92386 - MW 2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27258	Date Analyzed:	2006-06-11	Analyzed By:	MT
Prep Batch:	23906	Sample Preparation:	2006-06-11	Prepared By:	MT

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)		0.0995	mg/L	1	0.100	100	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0907	mg/L	1	0.100	91	70.6 - 129.2

Sample: 92387 - MW 1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27258	Date Analyzed:	2006-06-11	Analyzed By:	MT
Prep Batch:	23906	Sample Preparation:	2006-06-11	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0626**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.0283**	mg/L	1	0.00100
Xylene		**0.0157**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0972	mg/L	1	0.100	97	70.6 - 129.2

Sample: 92388 - MW 3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27258	Date Analyzed:	2006-06-11	Analyzed By:	MT
Prep Batch:	23906	Sample Preparation:	2006-06-11	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0212**	mg/L	1	0.00100

continued . . .

sample 92388 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
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	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0993	mg/L	1	0.100	99	70.6 - 129.2

Method Blank (1) QC Batch: 27258

QC Batch: 27258 | Date Analyzed: 2006-06-11 | Analyzed By: MT
Prep Batch: 23906 | QC Preparation: 2006-06-11 | Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000210	mg/L	0.001
Ethylbenzene		<0.000317	mg/L	0.001
Xylene		<0.000603	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0974	mg/L	1	0.100	97	76.1 - 117
4-Bromofluorobenzene (4-BFB)		0.0896	mg/L	1	0.100	90	58.5 - 118

Method Blank (1) QC Batch: 27308

QC Batch: 27308 | Date Analyzed: 2006-06-13 | Analyzed By: KB
Prep Batch: 23948 | QC Preparation: 2006-06-13 | Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000153	mg/L	0.001
Toluene		<0.000283	mg/L	0.001
Ethylbenzene		<0.000621	mg/L	0.001
Xylene		<0.000456	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0890	mg/L	1	0.100	89	77.4 - 109
4-Bromofluorobenzene (4-BFB)		0.0936	mg/L	1	0.100	94	63.8 - 118

Laboratory Control Spike (LCS-1)

QC Batch: 27258 | Date Analyzed: 2006-06-11 | Analyzed By: MT
Prep Batch: 23906 | QC Preparation: 2006-06-11 | Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.109	0.105	mg/L	1	0.100	<0.000255	109	4	80.8 - 112	20
Toluene	0.108	0.105	mg/L	1	0.100	<0.000210	108	3	78 - 114	20
Ethylbenzene	0.109	0.105	mg/L	1	0.100	<0.000317	109	4	78.6 - 116	20
Xylene	0.327	0.318	mg/L	1	0.300	<0.000603	109	3	83.2 - 112	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0991	0.0976	mg/L	1	0.100	99	98	79.9 - 117
4-Bromofluorobenzene (4-BFB)	0.0978	0.0969	mg/L	1	0.100	98	97	79 - 123

Laboratory Control Spike (LCS-1)

QC Batch: 27308 | Date Analyzed: 2006-06-13 | Analyzed By: KB
Prep Batch: 23948 | QC Preparation: 2006-06-13 | Prepared By: KB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0972	0.0977	mg/L	1	0.100	<0.000153	97	0	80 - 120	20
Toluene	0.0979	0.0983	mg/L	1	0.100	<0.000283	98	0	80 - 120	20
Ethylbenzene	0.0983	0.0989	mg/L	1	0.100	<0.000621	98	1	80 - 120	20
Xylene	0.293	0.294	mg/L	1	0.300	<0.000456	98	0	80 - 120	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	0.0946	mg/L	1	0.100	95	95	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0985	0.0981	mg/L	1	0.100	98	98	80 - 120

Matrix Spike (MS-1) Spiked Sample: 92535

QC Batch: 27258 | Date Analyzed: 2006-06-11 | Analyzed By: MT
Prep Batch: 23906 | QC Preparation: 2006-06-11 | Prepared By: MT

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	[1]	0.106	NA	mg/L	1	0.100	<0.000255	106	200	70.9 - 126	20
Toluene	[2]	0.105	NA	mg/L	1	0.100	<0.000210	105	200	70.8 - 125	20
Ethylbenzene	[3]	0.105	NA	mg/L	1	0.100	<0.000317	105	200	74.8 - 125	20

continued . . .

[1]RPD is out of range because a matrix spike duplicate was not prepared.
[2]RPD is out of range because a matrix spike duplicate was not prepared.
[3]RPD is out of range because a matrix spike duplicate was not prepared.

matrix spikes continued . . .

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Xylene	[4]	0.316	NA	mg/L	1	0.300	<0.000603	105	200	75.7 - 126	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]	0.0989	NA	mg/L	1	0.1	99	0	73.6 - 121
4-Bromofluorobenzene (4-BFB)	[6]	0.0972	NA	mg/L	1	0.1	97	0	81.8 - 114

Matrix Spike (MS-1) Spiked Sample: 92808

QC Batch: 27308 Date Analyzed: 2006-06-13 Analyzed By: KB
Prep Batch: 23948 QC Preparation: 2006-06-13 Prepared By: KB

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0936	0.0948	mg/L	1	0.100	<0.000153	94	1	88.4 - 114	20
Toluene	0.0948	0.0954	mg/L	1	0.100	<0.000283	95	1	81.4 - 116	20
Ethylbenzene	0.0957	0.0955	mg/L	1	0.100	<0.000621	96	0	82.5 - 118	20
Xylene	0.286	0.282	mg/L	1	0.300	<0.000456	95	1	77.9 - 117	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)	0.0958	0.0962	mg/L	1	0.1	96	96	84 - 109
4-Bromofluorobenzene (4-BFB)	0.103	0.0997	mg/L	1	0.1	103	100	74 - 120

Standard (ICV-1)

QC Batch: 27258 Date Analyzed: 2006-06-11 Analyzed By: MT

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	2006-06-11
Toluene		mg/L	0.100	0.106	106	85 - 115	2006-06-11
Ethylbenzene		mg/L	0.100	0.108	108	85 - 115	2006-06-11
Xylene		mg/L	0.300	0.324	108	85 - 115	2006-06-11

Standard (CCV-1)

QC Batch: 27258 Date Analyzed: 2006-06-11 Analyzed By: MT

[4]RPD is out of range because a matrix spike duplicate was not prepared.
[5]RPD is out of range because a matrix spike duplicate was not prepared.
[6]RPD is out of range because a matrix spike duplicate was not prepared.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	85 - 115	2006-06-11
Toluene		mg/L	0.100	0.102	102	85 - 115	2006-06-11
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2006-06-11
Xylene		mg/L	0.300	0.309	103	85 - 115	2006-06-11

Standard (ICV-1)

QC Batch: 27308 Date Analyzed: 2006-06-13 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0975	98	85 - 115	2006-06-13
Toluene		mg/L	0.100	0.0980	98	85 - 115	2006-06-13
Ethylbenzene		mg/L	0.100	0.0988	99	85 - 115	2006-06-13
Xylene		mg/L	0.300	0.294	98	85 - 115	2006-06-13

Standard (CCV-1)

QC Batch: 27308 Date Analyzed: 2006-06-13 Analyzed By: KB

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	2006-06-13
Toluene		mg/L	0.100	0.0975	98	85 - 115	2006-06-13
Ethylbenzene		mg/L	0.100	0.0981	98	85 - 115	2006-06-13
Xylene		mg/L	0.300	0.296	99	85 - 115	2006-06-13

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El Paso, Texas 79932
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 9060814

Company Name: Nova
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce
Fax #: 432-520-7701
Contact Person: Curt Stanley
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM - Monument #17
Project Name: Mon #17
Project Location (including state): Mon #17
Sampler Signature: Jane Cuthy

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
92383	MW 4	2	Vom	X				X				X		6/6/06	1300
84	MW 9														1330
85	MW 7														1345
86	MW 2														1400
87	MW 1														1415
88	MW 3														1430

ANALYSIS REQUEST (Circle or Specify Method No.)

MT3E 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content					Turn Around Time if different from standard	Hold
	X																					

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1		6-7-06	800	Allen Skelton	6/07/06	0800
2	Allen Skelton	6/07/06	1930			
3				Received at Laboratory by: Megan McCad	6-8-06	1010

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4.0 °
Log-in-Review

REMARKS:

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

Carrier # Jane Dan 37147682

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

12-HS

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Report Date: June 14, 2006
TNM Monument #17
Work Order: 6060814
Monument #17
New Mexico
Page Number: 8 of 8

TRACEANALYSIS, INC.

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155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Todd Choban
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: September 21, 2006

Work Order: 6091910

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
103774	MW-9	water	2006-09-12	14:45	2006-09-18
103775	MW-7	water	2006-09-12	15:00	2006-09-18
103776	MW-2	water	2006-09-12	15:15	2006-09-18
103777	MW-3	water	2006-09-12	15:30	2006-09-18
103778	MW-1	water	2006-09-12	15:45	2006-09-18

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

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 103774 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	30246	Date Analyzed:	2006-09-20	Analyzed By:	KB
Prep Batch:	26340	Sample Preparation:	2006-09-20	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.130**		mg/L	1	0.00100
Toluene		**0.0353**		mg/L	1	0.00100
Ethylbenzene		**0.0203**		mg/L	1	0.00100
Xylene		**0.0293**		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	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		0.126	mg/L	1	0.100	126	46.4 - 136.5

Sample: 103775 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	30246	Date Analyzed:	2006-09-20	Analyzed By:	KB
Prep Batch:	26340	Sample Preparation:	2006-09-20	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	46.4 - 136.5

Sample: 103776 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	30192	Date Analyzed:	2006-09-19	Analyzed By:	KB
Prep Batch:	26302	Sample Preparation:	2006-09-19	Prepared By:	KB

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0132**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00130**		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)		0.0852	mg/L	1	0.100	85	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		0.0556	mg/L	1	0.100	56	46.4 - 136.5

Sample: 103777 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	30192	Date Analyzed:	2006-09-19	Analyzed By:	KB
Prep Batch:	26302	Sample Preparation:	2006-09-19	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.168**	mg/L	20	0.00100
Toluene		<0.0200	mg/L	20	0.00100
Ethylbenzene		<0.0200	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)		1.63	mg/L	20	2.00	82	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		1.10	mg/L	20	2.00	55	46.4 - 136.5

Sample: 103778 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	30192	Date Analyzed:	2006-09-19	Analyzed By:	KB
Prep Batch:	26302	Sample Preparation:	2006-09-19	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0370**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.0281**	mg/L	1	0.00100
Xylene		**0.0126**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0882	mg/L	1	0.100	88	78.1 - 125.4
4-Bromofluorobenzene (4-BFB)		0.0648	mg/L	1	0.100	65	46.4 - 136.5

Method Blank (1) QC Batch: 30192

QC Batch:	30192	Date Analyzed:	2006-09-19	Analyzed By:	KB
Prep Batch:	26302	QC Preparation:	2006-09-19	Prepared By:	KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000153	mg/L	0.001
Toluene		<0.000283	mg/L	0.001

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
Ethylbenzene		<0.000621	mg/L	0.001
Xylene		<0.000456	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0857	mg/L	1	0.100	86	72.5 - 101
4-Bromofluorobenzene (4-BFB)		0.0585	mg/L	1	0.100	58	52.9 - 106

Method Blank (1) QC Batch: 30246

QC Batch: 30246 Date Analyzed: 2006-09-20 Analyzed By: KB
Prep Batch: 26340 QC Preparation: 2006-09-20 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000153	mg/L	0.001
Toluene		<0.000283	mg/L	0.001
Ethylbenzene		<0.000621	mg/L	0.001
Xylene		<0.000456	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0841	mg/L	1	0.100	84	72.5 - 101
4-Bromofluorobenzene (4-BFB)		0.0701	mg/L	1	0.100	70	52.9 - 106

Laboratory Control Spike (LCS-1)

QC Batch: 30192 Date Analyzed: 2006-09-19 Analyzed By: KB
Prep Batch: 26302 QC Preparation: 2006-09-19 Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0929	mg/L	1	0.100	<0.000153	93	77.5 - 112
Toluene	0.0927	mg/L	1	0.100	<0.000283	93	75.6 - 115
Ethylbenzene	0.0958	mg/L	1	0.100	<0.000621	96	72.5 - 121
Xylene	0.304	mg/L	1	0.300	<0.000456	101	69.4 - 127

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0933	mg/L	1	0.100	<0.000153	93	77.5 - 112	0	20
Toluene	0.0935	mg/L	1	0.100	<0.000283	93	75.6 - 115	1	20
Ethylbenzene	0.0964	mg/L	1	0.100	<0.000621	96	72.5 - 121	1	20
Xylene	0.305	mg/L	1	0.300	<0.000456	101	69.4 - 127	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)	0.0928	0.0935	mg/L	1	0.100	93	94	78.8 - 111
4-Bromofluorobenzene (4-BFB)	0.0928	0.0915	mg/L	1	0.100	93	92	71.7 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 30246 | Date Analyzed: 2006-09-20 | Analyzed By: KB
Prep Batch: 26340 | QC Preparation: 2006-09-20 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0907	mg/L	1	0.100	<0.000153	91	77.5 - 112
Toluene	0.0893	mg/L	1	0.100	<0.000283	89	75.6 - 115
Ethylbenzene	0.0916	mg/L	1	0.100	<0.000621	92	72.5 - 121
Xylene	0.288	mg/L	1	0.300	<0.000456	96	69.4 - 127

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	0.0878	mg/L	1	0.100	<0.000153	91	77.5 - 112	3	20
Toluene	0.0869	mg/L	1	0.100	<0.000283	89	75.6 - 115	3	20
Ethylbenzene	0.0894	mg/L	1	0.100	<0.000621	92	72.5 - 121	2	20
Xylene	0.281	mg/L	1	0.300	<0.000456	96	69.4 - 127	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.103	mg/L	1	0.100	102	103	78.8 - 111
4-Bromofluorobenzene (4-BFB)	0.107	0.107	mg/L	1	0.100	107	107	71.7 - 121

Matrix Spike (MS-1) Spiked Sample: 103795

QC Batch: 30192 | Date Analyzed: 2006-09-19 | Analyzed By: KB
Prep Batch: 26302 | QC Preparation: 2006-09-19 | Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0927	mg/L	1	0.100	<0.000153	93	88.4 - 114
Toluene	0.0912	mg/L	1	0.100	<0.000283	91	81.4 - 116
Ethylbenzene	0.0930	mg/L	1	0.100	<0.000621	93	82.5 - 118
Xylene	0.294	mg/L	1	0.300	<0.000456	98	77.9 - 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
Benzene	[1]	NA	mg/L	1	0.100	<0.000153	0	88.4 - 114	200	20
Toluene	[2]	NA	mg/L	1	0.100	<0.000283	0	81.4 - 116	200	20

continued . . .

[1]RPD is out of range because a matrix spike duplicate was not prepared.
[2]RPD is out of range because a matrix spike duplicate was not prepared.

matrix spikes continued . . .

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	[3]	NA	mg/L	1	0.100	<0.000621	0	82.5 - 118	200	20
Xylene	[4]	NA	mg/L	1	0.300	<0.000456	0	77.9 - 117	200	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]	0.101	NA	mg/L	1	0.1	101	0	84 - 109
4-Bromofluorobenzene (4-BFB)	[6]	0.0994	NA	mg/L	1	0.1	99	0	74 - 120

Standard (ICV-1)

QC Batch: 30192 Date Analyzed: 2006-09-19 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0927	93	85 - 115	2006-09-19
Toluene		mg/L	0.100	0.0929	93	85 - 115	2006-09-19
Ethylbenzene		mg/L	0.100	0.0955	96	85 - 115	2006-09-19
Xylene		mg/L	0.300	0.302	101	85 - 115	2006-09-19

Standard (CCV-1)

QC Batch: 30192 Date Analyzed: 2006-09-19 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0915	92	85 - 115	2006-09-19
Toluene		mg/L	0.100	0.0915	92	85 - 115	2006-09-19
Ethylbenzene		mg/L	0.100	0.0935	94	85 - 115	2006-09-19
Xylene		mg/L	0.300	0.295	98	85 - 115	2006-09-19

Standard (ICV-1)

QC Batch: 30246 Date Analyzed: 2006-09-20 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0887	89	85 - 115	2006-09-20
Toluene		mg/L	0.100	0.0886	89	85 - 115	2006-09-20
Ethylbenzene		mg/L	0.100	0.0919	92	85 - 115	2006-09-20
Xylene		mg/L	0.300	0.290	97	85 - 115	2006-09-20

[3]RPD is out of range because a matrix spike duplicate was not prepared.
[4]RPD is out of range because a matrix spike duplicate was not prepared.
[5]RPD is out of range because a matrix spike duplicate was not prepared.
[6]RPD is out of range because a matrix spike duplicate was not prepared.

Standard (CCV-1)

QC Batch: 30246 | Date Analyzed: 2006-09-20 | Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0889	89	85 - 115	2006-09-20
Toluene		mg/L	0.100	0.0871	87	85 - 115	2006-09-20
Ethylbenzene		mg/L	0.100	0.0896	90	85 - 115	2006-09-20
Xylene		mg/L	0.300	0.282	94	85 - 115	2006-09-20

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1 of 1

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Lubbock, Texas 79424
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TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 609190 609191 0

Company Name: Nova Safety & Environmental
Phone #: 432-520-7720
Address: (Street, City, Zip)
Fax #: 432-520-7701
Contact Person: Todd Choban
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM Monument #17
Project Name: Monument #17
Project Location (including state): NM
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
103774	mw 9	2	VOA	X				X				X		9-12-06	14:45		X																
75	mw 7	↓	↓	↓				↓				↓		↓	1500		↓																
76	mw 2														1515																		
77	mw 3														1530																		
78	mw 1	↓	↓	↓				↓				↓		↓	1545		↓																

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	9-13-06	14:30		9-13-06	14:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	9/18/06	10:40		9.18.06	10:40
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
	9/18/06	1700		9-19-06	9:00

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

10-HS

LAB USE ONLY

Intact (Y) N
Headspace Y / N
Temp 4 °
Log-in-Review
Carrier # Fine Star

REMARKS:
all tests Lubbock

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

Report Date: September 21, 2006
TNM Monument #17

Work Order: 6091910
Monument #17

Page Number: 8 of 8
New Mexico

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jennifer Lange
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: December 18, 2006

Work Order: 6121340

Project Location: Monument Lea Co.,NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
111677	MW-4	water	2006-12-13	11:15	2006-12-13
111678	MW-5	water	2006-12-13	11:35	2006-12-13
111679	MW-8	water	2006-12-13	11:55	2006-12-13
111680	MW-7	water	2006-12-13	12:15	2006-12-13
111681	MW-2	water	2006-12-13	12:35	2006-12-13
111682	MW-1	water	2006-12-13	12:55	2006-12-13
111683	MW-3	water	2006-12-13	13:15	2006-12-13
111684	MW-9	water	2006-12-13	13:35	2006-12-13

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

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 111677 - MW-4

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	32885	Date Analyzed:	2006-12-16	Analyzed By:	AG
Prep Batch:	28599	Sample Preparation:	2006-12-16	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0609	mg/L	1	0.100	61	53.5 - 114.8
4-Bromofluorobenzene (4-BFB)		0.0549	mg/L	1	0.100	55	43.7 - 118

Sample: 111678 - MW-5

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	32885	Date Analyzed:	2006-12-16	Analyzed By:	AG
Prep Batch:	28599	Sample Preparation:	2006-12-16	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0612	mg/L	1	0.100	61	53.5 - 114.8
4-Bromofluorobenzene (4-BFB)		0.0554	mg/L	1	0.100	55	43.7 - 118

Sample: 111679 - MW-8

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	32885	Date Analyzed:	2006-12-16	Analyzed By:	AG
Prep Batch:	28599	Sample Preparation:	2006-12-16	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0608	mg/L	1	0.100	61	53.5 - 114.8
4-Bromofluorobenzene (4-BFB)		0.0585	mg/L	1	0.100	58	43.7 - 118

Sample: 111680 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	32889	Date Analyzed:	2006-12-17	Analyzed By:	AG
Prep Batch:	28602	Sample Preparation:	2006-12-17	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)		0.0583	mg/L	1	0.100	58	53.5 - 114.8
4-Bromofluorobenzene (4-BFB)		0.0623	mg/L	1	0.100	62	43.7 - 118

Sample: 111681 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	32886	Date Analyzed:	2006-12-17	Analyzed By:	AG
Prep Batch:	28599	Sample Preparation:	2006-12-16	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00220**	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)		0.0603	mg/L	1	0.100	60	53.5 - 114.8
4-Bromofluorobenzene (4-BFB)		0.0565	mg/L	1	0.100	56	43.7 - 118

Sample: 111682 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	32886	Date Analyzed:	2006-12-17	Analyzed By:	AG
Prep Batch:	28599	Sample Preparation:	2006-12-16	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00580**	mg/L	1	0.00100

continued . . .

sample 111682 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
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)		0.0594	mg/L	1	0.100	59	53.5 - 114.8
4-Bromofluorobenzene (4-BFB)		0.0569	mg/L	1	0.100	57	43.7 - 118

Sample: 111683 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	32886	Date Analyzed:	2006-12-17	Analyzed By:	AG
Prep Batch:	28599	Sample Preparation:	2006-12-16	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00850**		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)		0.306	mg/L	5	0.500	61	53.5 - 114.8
4-Bromofluorobenzene (4-BFB)		0.314	mg/L	5	0.500	63	43.7 - 118

Sample: 111684 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	32886	Date Analyzed:	2006-12-17	Analyzed By:	AG
Prep Batch:	28599	Sample Preparation:	2006-12-16	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0121**		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)		0.0643	mg/L	1	0.100	64	53.5 - 114.8
4-Bromofluorobenzene (4-BFB)		0.0554	mg/L	1	0.100	55	43.7 - 118

Method Blank (1) QC Batch: 32885

QC Batch: 32885 | Date Analyzed: 2006-12-16 | Analyzed By: AG
Prep Batch: 28599 | QC Preparation: 2006-12-16 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000100	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0740	mg/L	1	0.100	74	69 - 113.5
4-Bromofluorobenzene (4-BFB)		0.0732	mg/L	1	0.100	73	61.3 - 110.7

Method Blank (1) QC Batch: 32886

QC Batch: 32886 | Date Analyzed: 2006-12-17 | Analyzed By: AG
Prep Batch: 28599 | QC Preparation: 2006-12-16 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000100	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0708	mg/L	1	0.100	71	69 - 113.5
4-Bromofluorobenzene (4-BFB)		0.0677	mg/L	1	0.100	68	61.3 - 110.7

Method Blank (1) QC Batch: 32889

QC Batch: 32889 | Date Analyzed: 2006-12-17 | Analyzed By: AG
Prep Batch: 28602 | QC Preparation: 2006-12-17 | Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000100	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0769	mg/L	1	0.100	77	69 - 113.5
4-Bromofluorobenzene (4-BFB)		0.0770	mg/L	1	0.100	77	61.3 - 110.7

Laboratory Control Spike (LCS-1)

QC Batch: 32885 | Date Analyzed: 2006-12-16 | Analyzed By: AG
Prep Batch: 28599 | QC Preparation: 2006-12-16 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0949	mg/L	1	0.100	<0.000200	95	70 - 130
Toluene	0.0983	mg/L	1	0.100	<0.000100	98	70 - 130
Ethylbenzene	0.100	mg/L	1	0.100	<0.000200	100	70 - 130
Xylene	0.308	mg/L	1	0.300	<0.000400	103	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
Benzene	0.0956	mg/L	1	0.100	<0.000200	96	70 - 130	1	20
Toluene	0.0991	mg/L	1	0.100	<0.000100	99	70 - 130	1	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.000200	100	70 - 130	0	20
Xylene	0.307	mg/L	1	0.300	<0.000400	102	70 - 130	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0736	0.0723	mg/L	1	0.100	74	72	69 - 113.5
4-Bromofluorobenzene (4-BFB)	0.0848	0.0823	mg/L	1	0.100	85	82	61.3 - 110.7

Laboratory Control Spike (LCS-1)

QC Batch: 32886 | Date Analyzed: 2006-12-17 | Analyzed By: AG
Prep Batch: 28599 | QC Preparation: 2006-12-16 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0938	mg/L	1	0.100	<0.000200	94	70 - 130
Toluene	0.0975	mg/L	1	0.100	<0.000100	98	70 - 130
Ethylbenzene	0.0980	mg/L	1	0.100	<0.000200	98	70 - 130
Xylene	0.300	mg/L	1	0.300	<0.000400	100	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
Benzene	0.0909	mg/L	1	0.100	<0.000200	91	70 - 130	3	20
Toluene	0.0948	mg/L	1	0.100	<0.000100	95	70 - 130	3	20
Ethylbenzene	0.0964	mg/L	1	0.100	<0.000200	96	70 - 130	2	20
Xylene	0.297	mg/L	1	0.300	<0.000400	99	70 - 130	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0686	0.0697	mg/L	1	0.100	69	70	69 - 113.5
4-Bromofluorobenzene (4-BFB)	0.0789	0.0783	mg/L	1	0.100	79	78	61.3 - 110.7

Laboratory Control Spike (LCS-1)

QC Batch: 32889 | Date Analyzed: 2006-12-17 | Analyzed By: AG
Prep Batch: 28602 | QC Preparation: 2006-12-17 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0911	mg/L	1	0.100	<0.000200	91	70 - 130
Toluene	0.0946	mg/L	1	0.100	<0.000100	95	70 - 130
Ethylbenzene	0.0960	mg/L	1	0.100	<0.000200	96	70 - 130
Xylene	0.294	mg/L	1	0.300	<0.000400	98	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
Benzene	0.0930	mg/L	1	0.100	<0.000200	93	70 - 130	2	20
Toluene	0.0969	mg/L	1	0.100	<0.000100	97	70 - 130	2	20
Ethylbenzene	0.0983	mg/L	1	0.100	<0.000200	98	70 - 130	2	20
Xylene	0.301	mg/L	1	0.300	<0.000400	100	70 - 130	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0744	0.0752	mg/L	1	0.100	74	75	69 - 113.5
4-Bromofluorobenzene (4-BFB)	0.0862	0.0868	mg/L	1	0.100	86	87	61.3 - 110.7

Standard (ICV-1)

QC Batch: 32885 | Date Analyzed: 2006-12-16 | 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	0.0912	91	85 - 115	2006-12-16
Toluene		mg/L	0.100	0.0953	95	85 - 115	2006-12-16
Ethylbenzene		mg/L	0.100	0.0971	97	85 - 115	2006-12-16
Xylene		mg/L	0.300	0.298	99	85 - 115	2006-12-16

Standard (CCV-1)

QC Batch: 32885 | Date Analyzed: 2006-12-16 | 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	0.0940	94	85 - 115	2006-12-16
Toluene		mg/L	0.100	0.0969	97	85 - 115	2006-12-16
Ethylbenzene		mg/L	0.100	0.0979	98	85 - 115	2006-12-16
Xylene		mg/L	0.300	0.301	100	85 - 115	2006-12-16

Standard (ICV-1)

QC Batch: 32886 Date Analyzed: 2006-12-17 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	0.0935	94	85 - 115	2006-12-17
Toluene		mg/L	0.100	0.0973	97	85 - 115	2006-12-17
Ethylbenzene		mg/L	0.100	0.0980	98	85 - 115	2006-12-17
Xylene		mg/L	0.300	0.300	100	85 - 115	2006-12-17

Standard (CCV-1)

QC Batch: 32886 Date Analyzed: 2006-12-17 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	0.0979	98	85 - 115	2006-12-17
Toluene		mg/L	0.100	0.101	101	85 - 115	2006-12-17
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2006-12-17
Xylene		mg/L	0.300	0.311	104	85 - 115	2006-12-17

Standard (ICV-1)

QC Batch: 32889 Date Analyzed: 2006-12-17 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	0.0905	90	85 - 115	2006-12-17
Toluene		mg/L	0.100	0.0945	94	85 - 115	2006-12-17
Ethylbenzene		mg/L	0.100	0.0964	96	85 - 115	2006-12-17
Xylene		mg/L	0.300	0.296	99	85 - 115	2006-12-17

Standard (CCV-1)

QC Batch: 32889 Date Analyzed: 2006-12-17 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	0.0935	94	85 - 115	2006-12-17
Toluene		mg/L	0.100	0.0970	97	85 - 115	2006-12-17
Ethylbenzene		mg/L	0.100	0.0980	98	85 - 115	2006-12-17
Xylene		mg/L	0.300	0.300	100	85 - 115	2006-12-17

1 of 1

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 6121340

Company Name: Nova Safety & Environmental
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Midland, TX,
Fax #: 432-520-7701
Contact Person: Curt Stanley
E-mail:
Invoice to: (If different from above) Plains
Project #: Tnm Monument #17
Project Name: Monument #17
Project Location (including state): North of Monument, NM.
Sampler Signature: Curt Stanley

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content						Turn Around Time if different from standard	Hold
111677	MW 4	2	VOA	X				X				X		12/13/06	1115		X																					
111678	MW 5														1135																								
111679	MW 8														1155																								
111680	MW 7														1215																								
111681	MW 2														1235																								
111682	MW 1														1255																								
111683	MW 3														1315																								
111684	MW 9														1335																								

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Curt Stanley	12-13-06	1635	[signature]	12-13-06	16:35
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 4 °
Log-In-Review

REMARKS:
all tests - Midland

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

Carrier # carry-in

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

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TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Jennifer Lange
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: March 21, 2007

Work Order: 7031621

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
119001	MW-7	water	2007-03-16	10:00	2007-03-16
119002	MW-2	water	2007-03-16	10:30	2007-03-16
119003	MW-1	water	2007-03-16	11:00	2007-03-16
119004	MW-3	water	2007-03-16	11:30	2007-03-16
119005	MW-9	water	2007-03-16	12:00	2007-03-16

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

This report consists of a total of 6 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: 119001 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35702	Date Analyzed:	2007-03-20	Analyzed By:	ss
Prep Batch:	30969	Sample Preparation:	2007-03-20	Prepared By:	ss

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00160**		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	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0987	mg/L	1	0.100	99	22.2 - 104.5

Sample: 119002 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35671	Date Analyzed:	2007-03-19	Analyzed By:	ss
Prep Batch:	30941	Sample Preparation:	2007-03-19	Prepared By:	ss

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0901	mg/L	1	0.100	90	22.2 - 104.5

Sample: 119003 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35671	Date Analyzed:	2007-03-19	Analyzed By:	ss
Prep Batch:	30941	Sample Preparation:	2007-03-19	Prepared By:	ss

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0294**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00790**		mg/L	1	0.00100
Xylene		**0.00340**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0979	mg/L	1	0.100	98	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0778	mg/L	1	0.100	78	22.2 - 104.5

Sample: 119004 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35671	Date Analyzed:	2007-03-19	Analyzed By:	ss
Prep Batch:	30941	Sample Preparation:	2007-03-19	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00780**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0943	mg/L	1	0.100	94	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0997	mg/L	1	0.100	100	22.2 - 104.5

Sample: 119005 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35671	Date Analyzed:	2007-03-19	Analyzed By:	ss
Prep Batch:	30941	Sample Preparation:	2007-03-19	Prepared By:	ss

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0751	mg/L	1	0.100	75	22.2 - 104.5

Method Blank (1) QC Batch: 35671

QC Batch:	35671	Date Analyzed:	2007-03-19	Analyzed By:	ss
Prep Batch:	30941	QC Preparation:	2007-03-19	Prepared By:	ss

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001

continued ...

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
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)		0.103	mg/L	1	0.100	103	60.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	54.4 - 112.5

Method Blank (1) QC Batch: 35702

QC Batch: 35702 Date Analyzed: 2007-03-20 Analyzed By: ss
Prep Batch: 30969 QC Preparation: 2007-03-20 Prepared By: ss

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)		0.103	mg/L	1	0.100	103	60.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0867	mg/L	1	0.100	87	54.4 - 112.5

Laboratory Control Spike (LCS-1)

QC Batch: 35671 Date Analyzed: 2007-03-19 Analyzed By: ss
Prep Batch: 30941 QC Preparation: 2007-03-19 Prepared By: ss

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0969	mg/L	1	0.100	<0.000200	97	76.4 - 120.5
Toluene	0.0986	mg/L	1	0.100	<0.000200	99	79.2 - 117.8
Ethylbenzene	0.0991	mg/L	1	0.100	<0.000200	99	78.8 - 117.9
Xylene	0.300	mg/L	1	0.300	<0.000300	100	80 - 120.1

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	0.0987	mg/L	1	0.100	<0.000200	99	76.4 - 120.5	2	20
Toluene	0.0998	mg/L	1	0.100	<0.000200	100	79.2 - 117.8	1	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.000200	101	78.8 - 117.9	2	20
Xylene	0.306	mg/L	1	0.300	<0.000300	102	80 - 120.1	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)	0.0965	0.0972	mg/L	1	0.100	96	97	59.5 - 117.8
4-Bromofluorobenzene (4-BFB)	0.110	0.108	mg/L	1	0.100	110	108	63.2 - 122.4

Laboratory Control Spike (LCS-1)

QC Batch: 35702 Date Analyzed: 2007-03-20 Analyzed By: ss
Prep Batch: 30969 QC Preparation: 2007-03-20 Prepared By: ss

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0933	mg/L	1	0.100	<0.000200	93	76.4 - 120.5
Toluene	0.0944	mg/L	1	0.100	<0.000200	94	79.2 - 117.8
Ethylbenzene	0.0950	mg/L	1	0.100	<0.000200	95	78.8 - 117.9
Xylene	0.285	mg/L	1	0.300	<0.000300	95	80 - 120.1

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	0.0938	mg/L	1	0.100	<0.000200	94	76.4 - 120.5	0	20
Toluene	0.0963	mg/L	1	0.100	<0.000200	96	79.2 - 117.8	2	20
Ethylbenzene	0.0973	mg/L	1	0.100	<0.000200	97	78.8 - 117.9	2	20
Xylene	0.294	mg/L	1	0.300	<0.000300	98	80 - 120.1	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)	0.0989	0.0934	mg/L	1	0.100	99	93	59.5 - 117.8
4-Bromofluorobenzene (4-BFB)	0.0989	0.0967	mg/L	1	0.100	99	97	63.2 - 122.4

Standard (ICV-1)

QC Batch: 35671 Date Analyzed: 2007-03-19 Analyzed By: ss

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0947	95	85 - 115	2007-03-19
Toluene		mg/L	0.100	0.0953	95	85 - 115	2007-03-19
Ethylbenzene		mg/L	0.100	0.0955	96	85 - 115	2007-03-19
Xylene		mg/L	0.300	0.290	97	85 - 115	2007-03-19

Standard (CCV-1)

QC Batch: 35671 Date Analyzed: 2007-03-19 Analyzed By: ss

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0973	97	85 - 115	2007-03-19

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.0983	98	85 - 115	2007-03-19
Ethylbenzene		mg/L	0.100	0.0977	98	85 - 115	2007-03-19
Xylene		mg/L	0.300	0.291	97	85 - 115	2007-03-19

Standard (ICV-1)

QC Batch: 35702 Date Analyzed: 2007-03-20 Analyzed By: ss

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0964	96	85 - 115	2007-03-20
Toluene		mg/L	0.100	0.0964	96	85 - 115	2007-03-20
Ethylbenzene		mg/L	0.100	0.0969	97	85 - 115	2007-03-20
Xylene		mg/L	0.300	0.290	97	85 - 115	2007-03-20

Standard (CCV-1)

QC Batch: 35702 Date Analyzed: 2007-03-20 Analyzed By: ss

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	2007-03-20
Toluene		mg/L	0.100	0.104	104	85 - 115	2007-03-20
Ethylbenzene		mg/L	0.100	0.101	101	85 - 115	2007-03-20
Xylene		mg/L	0.300	0.306	102	85 - 115	2007-03-20

LAB C ID # 70316 21 Page 1 of 1

TraceAnalysis, Inc.

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6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: Nova
Address: (Street, City, Zip) 2057 Commerce
Contact Person: Curt Stanley
Invoice to: (If different from above) Plains
Project #: TNM- Monument 17
Project Location (including state): New Mexico

Phone #: 432-520-7720
Fax #: 432-520-7701
E-mail:
Project Name: Monument 17
Sampler Signature: Justin Rivera

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
001	MW-7	3	VOA	X				X				X		3/16/07	1000		X																	
002	MW-2	↓	↓	↓				↓				↓		↓	1030																			
003	MW-1														1100																			
004	MW-3														1130																			
005	MW-9	↓	↓	↓				↓				↓		↓	1200		↓																	

Relinquished by: Justin Rivera Date: 3/16/07 Time: 4:16
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: Time:
3-16-07 16:16

LAB USE ONLY
Intact: Y / N
Headspace: Y / N
Temp: 3 °C
Log-in-Review:

REMARKS: BTEX - Midland

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

Carrier # Comm - UPS

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

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TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Jennifer Lange
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 22, 2007

Work Order: 7051724

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
124387	MW-4	water	2007-05-16	10:30	2007-05-17
124388	MW-2	water	2007-05-16	11:00	2007-05-17
124389	MW-9	water	2007-05-16	11:30	2007-05-17
124390	MW-7	water	2007-05-16	12:00	2007-05-17
124391	MW-3	water	2007-05-16	12:30	2007-05-17
124392	MW-1	water	2007-05-16	13:00	2007-05-17

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 6 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 Monument #17 were received by TraceAnalysis, Inc. on 2007-05-17 and assigned to work order 7051724. Samples for work order 7051724 were received intact without headspace and at a temperature of 3 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 7051724 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: 124387 - MW-4

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	37365	Date Analyzed:	2007-05-21	Analyzed By:	AG
Prep Batch:	32394	Sample Preparation:	2007-05-18	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0780	mg/L	1	0.100	78	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0706	mg/L	1	0.100	71	22.2 - 104.5

Sample: 124388 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	37365	Date Analyzed:	2007-05-21	Analyzed By:	AG
Prep Batch:	32394	Sample Preparation:	2007-05-18	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0772	mg/L	1	0.100	77	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0706	mg/L	1	0.100	71	22.2 - 104.5

Sample: 124389 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	37365	Date Analyzed:	2007-05-21	Analyzed By:	AG
Prep Batch:	32394	Sample Preparation:	2007-05-18	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0769	mg/L	1	0.100	77	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0696	mg/L	1	0.100	70	22.2 - 104.5

Sample: 124390 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	37365	Date Analyzed:	2007-05-21	Analyzed By:	AG
Prep Batch:	32394	Sample Preparation:	2007-05-18	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)		0.0767	mg/L	1	0.100	77	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0805	mg/L	1	0.100	80	22.2 - 104.5

Sample: 124391 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	37365	Date Analyzed:	2007-05-21	Analyzed By:	AG
Prep Batch:	32394	Sample Preparation:	2007-05-18	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)		0.0705	mg/L	1	0.100	70	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0896	mg/L	1	0.100	90	22.2 - 104.5

Sample: 124392 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	37365	Date Analyzed:	2007-05-21	Analyzed By:	AG
Prep Batch:	32394	Sample Preparation:	2007-05-18	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0243**	mg/L	1	0.00100

continued . . .

sample 124392 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.00340**	mg/L	1	0.00100
Xylene		**0.00270**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0740	mg/L	1	0.100	74	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0716	mg/L	1	0.100	72	22.2 - 104.5

Method Blank (1) QC Batch: 37365

QC Batch: 37365 Date Analyzed: 2007-05-21 Analyzed By: AG
Prep Batch: 32394 QC Preparation: 2007-05-18 Prepared By: AG

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)		0.0762	mg/L	1	0.100	76	60.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0711	mg/L	1	0.100	71	54.4 - 112.5

Laboratory Control Spike (LCS-1)

QC Batch: 37365 Date Analyzed: 2007-05-21 Analyzed By: AG
Prep Batch: 32394 QC Preparation: 2007-05-18 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0884	mg/L	1	0.100	<0.000200	88	76.4 - 120.5
Toluene	0.0896	mg/L	1	0.100	<0.000200	90	79.2 - 117.8
Ethylbenzene	0.0862	mg/L	1	0.100	<0.000200	86	78.8 - 117.9
Xylene	0.261	mg/L	1	0.300	<0.000300	87	80 - 120.1

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	0.0896	mg/L	1	0.100	<0.000200	90	76.4 - 120.5	1	20
Toluene	0.0896	mg/L	1	0.100	<0.000200	90	79.2 - 117.8	0	20
Ethylbenzene	0.0871	mg/L	1	0.100	<0.000200	87	78.8 - 117.9	1	20
Xylene	0.264	mg/L	1	0.300	<0.000300	88	80 - 120.1	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)	0.0695	0.0694	mg/L	1	0.100	70	69	59.5 - 117.8
4-Bromofluorobenzene (4-BFB)	0.0735	0.0728	mg/L	1	0.100	74	73	63.2 - 122.4

Standard (ICV-1)

QC Batch: 37365 Date Analyzed: 2007-05-21 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	0.0859	86	85 - 115	2007-05-21
Toluene		mg/L	0.100	0.0878	88	85 - 115	2007-05-21
Ethylbenzene		mg/L	0.100	0.0851	85	85 - 115	2007-05-21
Xylene		mg/L	0.300	0.258	86	85 - 115	2007-05-21

Standard (CCV-1)

QC Batch: 37365 Date Analyzed: 2007-05-21 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	0.0896	90	85 - 115	2007-05-21
Toluene		mg/L	0.100	0.0915	92	85 - 115	2007-05-21
Ethylbenzene		mg/L	0.100	0.0892	89	85 - 115	2007-05-21
Xylene		mg/L	0.300	0.271	90	85 - 115	2007-05-21

LAB Order ID # 7051724 Page 1 of 1

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Ft. Worth, Texas 76132
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Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Midland TX
Fax #: 432-520-7701
Contact Person: Curt Stanley
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM-Monument-#17
Project Name: Monument #17
Project Location (including state): New Mexico
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2007)	TIME
124387	MW-4	2	VOA	X				X				X		5/16	1030
388	MW-2														1100
389	MW-9														1130
390	MW-7														1200
391	MW-3														1230
392	MW-1														1300

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

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5/17/07	8:17			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date: 3.12.07	Time: 8:17

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 3 °C
Log-in-Review

REMARKS: all tests - midland

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

Carrier # Courier

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

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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

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 27, 2007

Work Order: 7082127

Project Location: Monument Lea Co.,NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
133824	SB-1 @ 15'	soil	2007-08-17	09:50	2007-08-21
133825	SB-2 @ 10'	soil	2007-08-17	10:20	2007-08-21
133826	SB-2 @ 15'	soil	2007-08-17	10:30	2007-08-21
133827	SB-3 @ 10'	soil	2007-08-17	10:40	2007-08-21
133828	SB-4 @ 10'	soil	2007-08-17	11:10	2007-08-21
133829	SB-4 @ 15'	soil	2007-08-17	11:15	2007-08-21
133830	SB-5 @ 15'	soil	2007-08-17	11:50	2007-08-21
133831	SB-5 @ 10'	soil	2007-08-17	11:40	2007-08-21

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

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 133824 - SB-1 @ 15'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40308	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34874	Sample Preparation:	2007-08-22	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		206	mg/Kg	1	150	137	17.3 - 169.6

Sample: 133824 - SB-1 @ 15'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40372	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34919	Sample Preparation:	2007-08-22	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[1]	1.00	mg/Kg	1	1.00	100	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	50.8 - 131.6

Sample: 133825 - SB-2 @ 10'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40358	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34919	Sample Preparation:	2007-08-22	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene			**0.436**	mg/Kg	1	0.0100
Toluene			**2.83**	mg/Kg	1	0.0100
Ethylbenzene			**10.2**	mg/Kg	1	0.0100
Xylene			**11.7**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.882	mg/Kg	1	1.00	88	39.6 - 116
4-Bromofluorobenzene (4-BFB)	[2]	3.83	mg/Kg	1	1.00	383	47.3 - 144.2

[1] High surrogate recovery due to peak interference.
[2] High surrogate recovery due to peak interference.

Sample: 133825 - SB-2 @ 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40308	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34874	Sample Preparation:	2007-08-22	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**223**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		200	mg/Kg	1	150	133	17.3 - 169.6

Sample: 133825 - SB-2 @ 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40372	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34919	Sample Preparation:	2007-08-22	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**216**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.641	mg/Kg	1	1.00	64	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	[3]	8.22	mg/Kg	1	1.00	822	50.8 - 131.6

Sample: 133826 - SB-2 @ 15'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40308	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34874	Sample Preparation:	2007-08-22	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		231	mg/Kg	1	150	154	17.3 - 169.6

Sample: 133826 - SB-2 @ 15'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40372	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34919	Sample Preparation:	2007-08-22	Prepared By:	

[3] High surrogate recovery due to peak interference.

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**16.4**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[4]	0.952	mg/Kg	1	1.00	95	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	50.8 - 131.6

Sample: 133827 - SB-3 @ 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40320	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34874	Sample Preparation:	2007-08-22	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		208	mg/Kg	1	150	139	17.3 - 169.6

Sample: 133827 - SB-3 @ 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40470	Date Analyzed:	2007-08-23	Analyzed By:	
Prep Batch:	34958	Sample Preparation:	2007-08-23	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[5]	0.975	mg/Kg	1	1.00	98	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	50.8 - 131.6

Sample: 133828 - SB-4 @ 10'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40404	Date Analyzed:	2007-08-23	Analyzed By:	
Prep Batch:	34958	Sample Preparation:	2007-08-23	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0500		mg/Kg	5	0.0100
Toluene		<0.0500		mg/Kg	5	0.0100
Ethylbenzene		**12.6**		mg/Kg	5	0.0100
Xylene		**11.1**		mg/Kg	5	0.0100

[4] High surrogate recovery due to peak interference.
[5] High surrogate recovery. Sample non-detect, result bias high.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		3.89	mg/Kg	5	5.00	78	39.6 - 116
4-Bromofluorobenzene (4-BFB)	[6]	9.15	mg/Kg	5	5.00	183	47.3 - 144.2

Sample: 133828 - SB-4 @ 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40320	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34874	Sample Preparation:	2007-08-22	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1990**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[7]	314	mg/Kg	1	150	209	17.3 - 169.6

Sample: 133828 - SB-4 @ 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40470	Date Analyzed:	2007-08-23	Analyzed By:	
Prep Batch:	34958	Sample Preparation:	2007-08-23	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**525**	mg/Kg	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[8]	4.51	mg/Kg	5	5.00	90	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		4.89	mg/Kg	5	5.00	98	50.8 - 131.6

Sample: 133829 - SB-4 @ 15'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40320	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34874	Sample Preparation:	2007-08-22	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**575**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		253	mg/Kg	1	150	169	17.3 - 169.6

[6] High surrogate recovery due to peak interference.
[7] High surrogate recovery due to peak interference.
[8] High surrogate recovery due to peak interference.

Sample: 133829 - SB-4 @ 15'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40470	Date Analyzed:	2007-08-23	Analyzed By:	
Prep Batch:	34958	Sample Preparation:	2007-08-23	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**205**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.669	mg/Kg	1	1.00	67	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	[9]	3.66	mg/Kg	1	1.00	366	50.8 - 131.6

Sample: 133830 - SB-5 @ 15'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40320	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34874	Sample Preparation:	2007-08-22	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**2650**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[10]	637	mg/Kg	1	150	425	17.3 - 169.6

Sample: 133830 - SB-5 @ 15'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40470	Date Analyzed:	2007-08-23	Analyzed By:	
Prep Batch:	34958	Sample Preparation:	2007-08-23	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**350**		mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.46	mg/Kg	2	2.00	73	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	[11]	4.68	mg/Kg	2	2.00	234	50.8 - 131.6

Sample: 133831 - SB-5 @ 10'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40404	Date Analyzed:	2007-08-23	Analyzed By:	
Prep Batch:	34958	Sample Preparation:	2007-08-23	Prepared By:	

[9] High surrogate recovery due to peak interference.
[10] High surrogate recovery due to peak interference.
[11] High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		**2.27**	mg/Kg	1	0.0100
Xylene		**2.53**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.792	mg/Kg	1	1.00	79	39.6 - 116
4-Bromofluorobenzene (4-BFB)	[12]	1.96	mg/Kg	1	1.00	196	47.3 - 144.2

Sample: 133831 - SB-5 @ 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40320	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34874	Sample Preparation:	2007-08-22	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**476**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		212	mg/Kg	1	150	141	17.3 - 169.6

Sample: 133831 - SB-5 @ 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40470	Date Analyzed:	2007-08-23	Analyzed By:	
Prep Batch:	34958	Sample Preparation:	2007-08-23	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**110**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.562	mg/Kg	1	1.00	56	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.23	mg/Kg	1	1.00	123	50.8 - 131.6

Method Blank (1) QC Batch: 40308

QC Batch:	40308	Date Analyzed:	2007-08-22	Analyzed By:	
Prep Batch:	34874	QC Preparation:	2007-08-22	Prepared By:	

[12] High surrogate recovery due to peak interference.

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		94.2	mg/Kg	1	150	63	32.9 - 156.1

Method Blank (1) QC Batch: 40320

QC Batch: 40320 Date Analyzed: 2007-08-22 Analyzed By:
Prep Batch: 34874 QC Preparation: 2007-08-22 Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		191	mg/Kg	1	150	127	32.9 - 156.1

Method Blank (1) QC Batch: 40358

QC Batch: 40358 Date Analyzed: 2007-08-22 Analyzed By:
Prep Batch: 34919 QC Preparation: 2007-08-22 Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.991	mg/Kg	1	1.00	99	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.996	mg/Kg	1	1.00	100	53.1 - 111.6

Method Blank (1) QC Batch: 40372

QC Batch: 40372 Date Analyzed: 2007-08-22 Analyzed By:
Prep Batch: 34919 QC Preparation: 2007-08-22 Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.953	mg/Kg	1	1.00	95	55.4 - 111.8

Method Blank (1) QC Batch: 40404

QC Batch: 40404 Date Analyzed: 2007-08-23 Analyzed By:
Prep Batch: 34958 QC Preparation: 2007-08-23 Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.995	mg/Kg	1	1.00	100	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.995	mg/Kg	1	1.00	100	53.1 - 111.6

Method Blank (1) QC Batch: 40470

QC Batch: 40470 Date Analyzed: 2007-08-23 Analyzed By:
Prep Batch: 34958 QC Preparation: 2007-08-23 Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.968	mg/Kg	1	1.00	97	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.949	mg/Kg	1	1.00	95	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 40308 Date Analyzed: 2007-08-22 Analyzed By:
Prep Batch: 34874 QC Preparation: 2007-08-22 Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	188	mg/Kg	1	250	<13.4	75	49.1 - 142.3

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

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	184	mg/Kg	1	250	<13.4	74	49.1 - 142.3	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	191	195	mg/Kg	1	150	127	130	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40320 | Date Analyzed: 2007-08-22 | Analyzed By:
Prep Batch: 34874 | QC Preparation: 2007-08-22 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	180	mg/Kg	1	250	<13.4	72	49.1 - 142.3

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
DRO	188	mg/Kg	1	250	<13.4	75	49.1 - 142.3	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	176	178	mg/Kg	1	150	117	119	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40358 | Date Analyzed: 2007-08-22 | Analyzed By:
Prep Batch: 34919 | QC Preparation: 2007-08-22 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.994	mg/Kg	1	1.00	<0.00110	99	71.2 - 119
Toluene	1.08	mg/Kg	1	1.00	<0.00150	108	76.3 - 116.5
Ethylbenzene	1.07	mg/Kg	1	1.00	<0.00160	107	77.6 - 114
Xylene	3.18	mg/Kg	1	3.00	<0.00410	106	78.8 - 113.9

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	0.952	mg/Kg	1	1.00	<0.00110	95	71.2 - 119	4	20
Toluene	1.02	mg/Kg	1	1.00	<0.00150	102	76.3 - 116.5	6	20
Ethylbenzene	1.02	mg/Kg	1	1.00	<0.00160	102	77.6 - 114	5	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Xylene	3.07	mg/Kg	1	3.00	<0.00410	102	78.8 - 113.9	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)	0.930	0.967	mg/Kg	1	1.00	93	97	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.969	0.963	mg/Kg	1	1.00	97	96	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 40372 | Date Analyzed: 2007-08-22 | Analyzed By:
Prep Batch: 34919 | QC Preparation: 2007-08-22 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.58	mg/Kg	1	10.0	<0.739	86	56 - 105.2

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
GRO	8.28	mg/Kg	1	10.0	<0.739	83	56 - 105.2	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)	0.948	0.967	mg/Kg	1	1.00	95	97	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.958	0.964	mg/Kg	1	1.00	96	96	67.2 - 119.2

Laboratory Control Spike (LCS-1)

QC Batch: 40404 | Date Analyzed: 2007-08-23 | Analyzed By:
Prep Batch: 34958 | QC Preparation: 2007-08-23 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.01	mg/Kg	1	1.00	<0.00110	101	71.2 - 119
Toluene	1.05	mg/Kg	1	1.00	<0.00150	105	76.3 - 116.5
Ethylbenzene	1.04	mg/Kg	1	1.00	<0.00160	104	77.6 - 114
Xylene	3.10	mg/Kg	1	3.00	<0.00410	103	78.8 - 113.9

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	1.01	mg/Kg	1	1.00	<0.00110	101	71.2 - 119	0	20
Toluene	1.04	mg/Kg	1	1.00	<0.00150	104	76.3 - 116.5	1	20
Ethylbenzene	1.05	mg/Kg	1	1.00	<0.00160	105	77.6 - 114	1	20
Xylene	3.11	mg/Kg	1	3.00	<0.00410	104	78.8 - 113.9	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)	0.957	0.926	mg/Kg	1	1.00	96	93	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.959	0.960	mg/Kg	1	1.00	96	96	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 40470 | Date Analyzed: 2007-08-23 | Analyzed By:
Prep Batch: 34958 | QC Preparation: 2007-08-23 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.77	mg/Kg	1	10.0	<0.739	88	56 - 105.2

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
GRO	7.37	mg/Kg	1	10.0	<0.739	74	56 - 105.2	17	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)	0.968	0.981	mg/Kg	1	1.00	97	98	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.986	0.979	mg/Kg	1	1.00	99	98	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 133811

QC Batch: 40308 | Date Analyzed: 2007-08-22 | Analyzed By:
Prep Batch: 34874 | QC Preparation: 2007-08-22 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	207	mg/Kg	1	250	<13.4	83	30.2 - 201.4

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
DRO	205	mg/Kg	1	250	<13.4	82	30.2 - 201.4	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
n-Triacontane	194	178	mg/Kg	1	150	129	119	10 - 194

Matrix Spike (MS-1) Spiked Sample: 133827

QC Batch: 40320 | Date Analyzed: 2007-08-22 | Analyzed By:
Prep Batch: 34874 | QC Preparation: 2007-08-22 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	200	mg/Kg	1	250	<13.4	80	30.2 - 201.4

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
DRO	194	mg/Kg	1	250	<13.4	78	30.2 - 201.4	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
n-Triacontane	200	191	mg/Kg	1	150	133	127	10 - 194

Matrix Spike (MS-1) Spiked Sample: 133820

QC Batch: 40358 | Date Analyzed: 2007-08-22 | Analyzed By:
Prep Batch: 34919 | QC Preparation: 2007-08-22 | Prepared By:

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	[13]	1.96	mg/Kg	1	1.00	<0.00110	196	65.7 - 119.1
Toluene	[14]	2.00	mg/Kg	1	1.00	<0.00150	200	47.7 - 153.8
Ethylbenzene	[15]	2.07	mg/Kg	1	1.00	<0.00160	207	73.5 - 126.3
Xylene	[16]	6.21	mg/Kg	1	3.00	<0.00410	207	73.6 - 125.9

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	[17]	1.01	mg/Kg	1	1.00	<0.00110	101	65.7 - 119.1	64	20
Toluene	[18]	1.06	mg/Kg	1	1.00	<0.00150	106	47.7 - 153.8	61	20
Ethylbenzene	[19]	1.10	mg/Kg	1	1.00	<0.00160	110	73.5 - 126.3	61	20
Xylene	[20]	3.25	mg/Kg	1	3.00	<0.00410	108	73.6 - 125.9	63	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)	0.941	0.927	mg/Kg	1	1	94	93	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.02	1.03	mg/Kg	1	1	102	103	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 133820

QC Batch: 40372 | Date Analyzed: 2007-08-22 | Analyzed By:
Prep Batch: 34919 | QC Preparation: 2007-08-22 | Prepared By:

[13] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[14] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[15] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[16] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[17] RPD is out of control limits due to extraction process. Use LCS/LCSD to demonstrate method is under control. •
[18] RPD is out of control limits due to extraction process. Use LCS/LCSD to demonstrate method is under control. •
[19] RPD is out of control limits due to extraction process. Use LCS/LCSD to demonstrate method is under control. •
[20] RPD is out of control limits due to extraction process. Use LCS/LCSD to demonstrate method is under control. •

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.67	mg/Kg	1	10.0	<0.739	92	10 - 102.2

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	7.92	mg/Kg	1	10.0	<0.739	75	10 - 102.2	20	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)	0.765	0.800	mg/Kg	1	1	76	80	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.04	1.04	mg/Kg	1	1	104	104	58 - 162.6

Matrix Spike (MS-1) Spiked Sample: 133852

QC Batch: 40404 | Date Analyzed: 2007-08-23 | Analyzed By:
Prep Batch: 34958 | QC Preparation: 2007-08-23 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.08	mg/Kg	1	1.00	<0.00110	108	65.7 - 119.1
Toluene	1.17	mg/Kg	1	1.00	<0.00150	117	47.7 - 153.8
Ethylbenzene	1.16	mg/Kg	1	1.00	<0.00160	116	73.5 - 126.3
Xylene	3.45	mg/Kg	1	3.00	<0.00410	115	73.6 - 125.9

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	[21]	0.876	mg/Kg	1	1.00	<0.00110	88	65.7 - 119.1	21	20
Toluene	[22]	0.952	mg/Kg	1	1.00	<0.00150	95	47.7 - 153.8	20	20
Ethylbenzene		0.956	mg/Kg	1	1.00	<0.00160	96	73.5 - 126.3	19	20
Xylene		2.86	mg/Kg	1	3.00	<0.00410	95	73.6 - 125.9	19	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)	0.931	0.930	mg/Kg	1	1	93	93	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.02	0.914	mg/Kg	1	1	102	91	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 133852

QC Batch: 40470 | Date Analyzed: 2007-08-23 | Analyzed By:
Prep Batch: 34958 | QC Preparation: 2007-08-23 | Prepared By:

continued ...

[21] RPD is out of control limits due to extractio process. Use LCS/LCSD to demonstrate method is under control. •
[22] RPD is out of control limits due to extractio process. Use LCS/LCSD to demonstrate method 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
GRO [23]	10.6	mg/Kg	1	10.0	<0.739	106	10 - 102.2

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	9.11	mg/Kg	1	10.0	<0.739	91	10 - 102.2	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
Trifluorotoluene (TFT)	0.774	0.746	mg/Kg	1	1	77	75	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	0.740	1.08	mg/Kg	1	1	74	108	58 - 162.6

Standard (CCV-2)

QC Batch: 40308 Date Analyzed: 2007-08-22 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	85 - 115	2007-08-22

Standard (CCV-3)

QC Batch: 40308 Date Analyzed: 2007-08-22 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	238	95	85 - 115	2007-08-22

Standard (ICV-1)

QC Batch: 40320 Date Analyzed: 2007-08-22 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	260	104	85 - 115	2007-08-22

Standard (CCV-1)

QC Batch: 40320 Date Analyzed: 2007-08-22 Analyzed By:

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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	233	93	85 - 115	2007-08-22

Standard (ICV-1)

QC Batch: 40358 Date Analyzed: 2007-08-22 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0944	94	85 - 115	2007-08-22
Toluene		mg/Kg	0.100	0.104	104	85 - 115	2007-08-22
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2007-08-22
Xylene		mg/Kg	0.300	0.302	101	85 - 115	2007-08-22

Standard (CCV-1)

QC Batch: 40358 Date Analyzed: 2007-08-22 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0954	95	85 - 115	2007-08-22
Toluene		mg/Kg	0.100	0.103	103	85 - 115	2007-08-22
Ethylbenzene		mg/Kg	0.100	0.100	100	85 - 115	2007-08-22
Xylene		mg/Kg	0.300	0.300	100	85 - 115	2007-08-22

Standard (ICV-1)

QC Batch: 40372 Date Analyzed: 2007-08-22 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.12	112	85 - 115	2007-08-22

Standard (CCV-1)

QC Batch: 40372 Date Analyzed: 2007-08-22 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2007-08-22

Standard (ICV-1)

QC Batch: 40404 Date Analyzed: 2007-08-23 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0987	99	85 - 115	2007-08-23
Toluene		mg/Kg	0.100	0.101	101	85 - 115	2007-08-23
Ethylbenzene		mg/Kg	0.100	0.0994	99	85 - 115	2007-08-23
Xylene		mg/Kg	0.300	0.294	98	85 - 115	2007-08-23

Standard (CCV-1)

QC Batch: 40404 Date Analyzed: 2007-08-23 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.102	102	85 - 115	2007-08-23
Toluene		mg/Kg	0.100	0.111	111	85 - 115	2007-08-23
Ethylbenzene		mg/Kg	0.100	0.106	106	85 - 115	2007-08-23
Xylene		mg/Kg	0.300	0.312	104	85 - 115	2007-08-23

Standard (ICV-1)

QC Batch: 40470 Date Analyzed: 2007-08-23 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.948	95	85 - 115	2007-08-23

Standard (CCV-1)

QC Batch: 40470 Date Analyzed: 2007-08-23 Analyzed By:

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	2007-08-23

LAB Order ID # 7082127 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: NOVA SAFETY & ENVIRONMENTAL Phone #: 432-520-7720

Address: (Street, City, Zip) 2057 COMMERCE MIDLAND, 79703 Fax #: 432-520-7701

Contact Person: CURT STANLEY E-mail: JKOONCE@NOVATRAINING.COM

Invoice to: (If different from above) RAINS

Project #: TNM-MONUMENT #17 Project Name: MONUMENT #17

Project Location (including state): NORTH OF MONUMENT, NM Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
133824	SB-1 @ 15'	1	4oz		X							X		8/17/2007	9:50				X														
825	SB-2 @ 10'														10:20		X		X														
826	SB-2 @ 15'														10:30				X														
827	SB-3 @ 10'														10:40				X														
828	SB-4 @ 10'														11:10		X		X														
829	SB-4 @ 15'														11:15				X														
830	SB-5 @ 15'														11:50				X														
831	SB-5 @ 10'														11:40		X		X														

ANALYSIS REQUEST (Circle or Specify Method No.)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	8/21/07	16:04			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	8/21/07	16:04

LAB USE ONLY

Intact (Y) N

Headspace ___ Y / N

Temp 3.4 °

Log-in-Review ___

REMARKS:

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

Carrier # comp in

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

ORIGINAL COPY

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 22, 2007

Work Order: 7082018

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
133712	MW-2	water	2007-08-20	11:00	2007-08-20
133713	MW-9	water	2007-08-20	11:30	2007-08-20
133714	MW-7	water	2007-08-20	12:00	2007-08-20
133715	MW-3	water	2007-08-20	12:30	2007-08-20
133716	MW-1	water	2007-08-20	13:00	2007-08-20

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 5 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: 133712 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	40304	Date Analyzed:	2007-08-21	Analyzed By:	
Prep Batch:	34876	Sample Preparation:	2007-08-21	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.143**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		**0.0104**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0877	mg/L	1	0.100	88	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	47.6 - 121.4

Sample: 133713 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	40304	Date Analyzed:	2007-08-21	Analyzed By:	
Prep Batch:	34876	Sample Preparation:	2007-08-21	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	47.6 - 121.4

Sample: 133714 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	40304	Date Analyzed:	2007-08-21	Analyzed By:	
Prep Batch:	34876	Sample Preparation:	2007-08-21	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0980	mg/L	1	0.100	98	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	47.6 - 121.4

Sample: 133715 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	40304	Date Analyzed:	2007-08-21	Analyzed By:	
Prep Batch:	34876	Sample Preparation:	2007-08-21	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0377**	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)		0.0921	mg/L	1	0.100	92	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.112	mg/L	1	0.100	112	47.6 - 121.4

Sample: 133716 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	40304	Date Analyzed:	2007-08-21	Analyzed By:	
Prep Batch:	34876	Sample Preparation:	2007-08-21	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0349**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.0251**	mg/L	1	0.00100
Xylene		**0.0105**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0936	mg/L	1	0.100	94	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	47.6 - 121.4

Method Blank (1) QC Batch: 40304

QC Batch:	40304	Date Analyzed:	2007-08-21	Analyzed By:	
Prep Batch:	34876	QC Preparation:	2007-08-21	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001

continued ...

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
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)		0.101	mg/L	1	0.100	101	54.8 - 117.8
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	46.7 - 110.4

Laboratory Control Spike (LCS-1)

QC Batch: 40304 | Date Analyzed: 2007-08-21 | Analyzed By:
Prep Batch: 34876 | QC Preparation: 2007-08-21 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.105	mg/L	1	0.100	<0.000200	105	66.7 - 120.6
Toluene	0.109	mg/L	1	0.100	<0.000200	109	73.1 - 118.2
Ethylbenzene	0.110	mg/L	1	0.100	<0.000200	110	73.7 - 116.2
Xylene	0.326	mg/L	1	0.300	<0.000300	109	75.2 - 116.3

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
Benzene	0.0947	mg/L	1	0.100	<0.000200	95	66.7 - 120.6	10	20
Toluene	0.102	mg/L	1	0.100	<0.000200	102	73.1 - 118.2	7	20
Ethylbenzene	0.104	mg/L	1	0.100	<0.000200	104	73.7 - 116.2	6	20
Xylene	0.307	mg/L	1	0.300	<0.000300	102	75.2 - 116.3	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)	0.0952	0.0951	mg/L	1	0.100	95	95	51.7 - 106.3
4-Bromofluorobenzene (4-BFB)	0.0959	0.0968	mg/L	1	0.100	96	97	51.4 - 117.9

Standard (ICV-1)

QC Batch: 40304 | Date Analyzed: 2007-08-21 | Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0942	94	85 - 115	2007-08-21
Toluene		mg/L	0.100	0.102	102	85 - 115	2007-08-21
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2007-08-21
Xylene		mg/L	0.300	0.305	102	85 - 115	2007-08-21

Standard (CCV-1)

QC Batch: 40304 | Date Analyzed: 2007-08-21 | Analyzed By:

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	2007-08-21
Toluene		mg/L	0.100	0.109	109	85 - 115	2007-08-21
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2007-08-21
Xylene		mg/L	0.300	0.324	108	85 - 115	2007-08-21

LAB Order ID # 7082018 Page 1 of 1

TraceAnalysis, Inc.

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Tel (817) 201-5260

Company Name: Nova
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce
Fax #: 432-520-7701
Contact Person: Curt Stanley
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM-Monument #17
Project Name: Monument #17
Project Location (including state): New Mexico
Sampler Signature: Dustin Low

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2007)	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content					Turn Around Time if different from standard	Hold
133712	MW-2	2	Voa	X				X				X		8/20	1100		X																				
133713	MW-9														1130																						
133714	MW-7														1200																						
133715	MW-3														1230																						
133716	MW-1														1300																						

ANALYSIS REQUEST (Circle or Specify Method No.)

Relinquished by: Date: 8/20/07 Time: 4:33
Received by: Date: Time:

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

Relinquished by: Date: Time:
Received at Laboratory by: Date: 8/20/07 Time: 16:35

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

ORIGINAL COPY

LAB USE ONLY

Intact (Y) / N
Headspace Y / (N)
Temp 3.9 °
Log-in-Review

REMARKS:
all tests - Midland

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

Carrier # courier

TRACEANALYSIS, INC.

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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
8808 Camp Bowie Blvd. West, Suite 180 Ft. Worth, Texas 76116 817•201•5260 FAX 817•560•4336
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: December 4, 2007

Work Order: 7112722

Project Location: Monument Lea Co.,NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
143688	MW-5	water	2007-11-27	10:05	2007-11-27
143689	MW-4	water	2007-11-27	10:25	2007-11-27
143690	MW-8	water	2007-11-27	10:55	2007-11-27
143691	MW-9	water	2007-11-27	11:15	2007-11-27
143692	MW-7	water	2007-11-27	11:40	2007-11-27
143693	MW-3	water	2007-11-27	12:00	2007-11-27
143694	MW-1	water	2007-11-27	12:20	2007-11-27
143695	MW-2	water	2007-11-27	12:40	2007-11-27

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 7 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 TNM Monument #17 were received by TraceAnalysis, Inc. on 2007-11-27 and assigned to work order 7112722. Samples for work order 7112722 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 7112722 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: 143688 - MW-5

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	43533	Date Analyzed:	2007-12-02	Analyzed By:	DC
Prep Batch:	37542	Sample Preparation:	2007-12-02	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)		0.110	mg/L	1	0.100	110	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0750	mg/L	1	0.100	75	70 - 130

Sample: 143689 - MW-4

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	43533	Date Analyzed:	2007-12-02	Analyzed By:	DC
Prep Batch:	37542	Sample Preparation:	2007-12-02	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)		0.113	mg/L	1	0.100	113	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0725	mg/L	1	0.100	72	70 - 130

Sample: 143690 - MW-8

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	43533	Date Analyzed:	2007-12-02	Analyzed By:	DC
Prep Batch:	37542	Sample Preparation:	2007-12-02	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)		0.110	mg/L	1	0.100	110	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0743	mg/L	1	0.100	74	70 - 130

Sample: 143691 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	43533	Date Analyzed:	2007-12-02	Analyzed By:	DC
Prep Batch:	37542	Sample Preparation:	2007-12-02	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)		0.110	mg/L	1	0.100	110	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0717	mg/L	1	0.100	72	70 - 130

Sample: 143692 - MW-7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	43533	Date Analyzed:	2007-12-02	Analyzed By:	DC
Prep Batch:	37542	Sample Preparation:	2007-12-02	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	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0763	mg/L	1	0.100	76	70 - 130

Sample: 143693 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	43533	Date Analyzed:	2007-12-02	Analyzed By:	DC
Prep Batch:	37542	Sample Preparation:	2007-12-02	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00890	mg/L	1	0.00100

continued ...

sample 143693 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
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)		0.113	mg/L	1	0.100	113	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0771	mg/L	1	0.100	77	70 - 130

Sample: 143694 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	43533	Date Analyzed:	2007-12-02	Analyzed By:	DC
Prep Batch:	37542	Sample Preparation:	2007-12-02	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00280**	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)		0.106	mg/L	1	0.100	106	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0721	mg/L	1	0.100	72	70 - 130

Sample: 143695 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	43533	Date Analyzed:	2007-12-02	Analyzed By:	DC
Prep Batch:	37542	Sample Preparation:	2007-12-02	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00410**	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)		0.113	mg/L	1	0.100	113	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0739	mg/L	1	0.100	74	70 - 130

Method Blank (1) QC Batch: 43533

QC Batch: 43533 | Date Analyzed: 2007-12-02 | Analyzed By: DC
Prep Batch: 37542 | QC Preparation: 2007-12-02 | 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)		0.119	mg/L	1	0.100	119	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0778	mg/L	1	0.100	78	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 43533 | Date Analyzed: 2007-12-02 | Analyzed By: DC
Prep Batch: 37542 | QC Preparation: 2007-12-02 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.100	mg/L	1	0.100	<0.000300	100	70 - 130
Toluene	0.100	mg/L	1	0.100	<0.000200	100	70 - 130
Ethylbenzene	0.0997	mg/L	1	0.100	<0.000500	100	70 - 130
Xylene	0.300	mg/L	1	0.300	<0.000400	100	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
Benzene	0.0975	mg/L	1	0.100	<0.000300	98	70 - 130	2	
Toluene	0.0965	mg/L	1	0.100	<0.000200	96	70 - 130	4	
Ethylbenzene	0.0954	mg/L	1	0.100	<0.000500	95	70 - 130	4	
Xylene	0.286	mg/L	1	0.300	<0.000400	95	70 - 130	5	

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)	0.116	0.113	mg/L	1	0.100	116	113	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0785	0.0745	mg/L	1	0.100	78	74	70 - 130

Matrix Spike (MS-1) Spiked Sample: 143871

QC Batch: 43533 | Date Analyzed: 2007-12-02 | Analyzed By: DC
Prep Batch: 37542 | QC Preparation: 2007-12-02 | Prepared By: DC

continued ...

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
Benzene	0.479	mg/L	5	0.500	<0.00150	96	70 - 130
Toluene	0.479	mg/L	5	0.500	<0.00100	96	70 - 130
Ethylbenzene	0.474	mg/L	5	0.500	<0.00250	95	70 - 130
Xylene	1.42	mg/L	5	1.50	<0.00200	95	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
Benzene	0.466	mg/L	5	0.500	<0.00150	93	70 - 130	3	
Toluene	0.472	mg/L	5	0.500	<0.00100	94	70 - 130	2	
Ethylbenzene	0.464	mg/L	5	0.500	<0.00250	93	70 - 130	2	
Xylene	1.38	mg/L	5	1.50	<0.00200	92	70 - 130	3	

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.537	0.541	mg/L	5	0.5	107	108	70 - 130
4-Bromofluorobenzene (4-BFB)	0.369	0.364	mg/L	5	0.5	74	73	70 - 130

Standard (ICV-1)

QC Batch: 43533 Date Analyzed: 2007-12-02 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.105	105	85 - 115	2007-12-02
Toluene		mg/L	0.100	0.107	107	85 - 115	2007-12-02
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2007-12-02
Xylene		mg/L	0.300	0.320	107	85 - 115	2007-12-02

Standard (CCV-1)

QC Batch: 43533 Date Analyzed: 2007-12-02 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0934	93	85 - 115	2007-12-02
Toluene		mg/L	0.100	0.0936	94	85 - 115	2007-12-02
Ethylbenzene		mg/L	0.100	0.0927	93	85 - 115	2007-12-02
Xylene		mg/L	0.300	0.278	93	85 - 115	2007-12-02

LAB Order ID # 711722 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Company Name: Nova
Address: (Street, City, Zip) 2057 Commerce
Phone #: 432-520-7720
Fax #: 432-520-7701
Contact Person: Curt Stanley
E-mail:
Invoice to: (If different from above) Plateau
Project #: Train - Monument #17
Project Name: Monument #17
Project Location (including state): New Mexico
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
42688	MW-5	2	Vol	X				X				X		11/27	1005
689	MW-4														1035
690	MW-8														1055
691	MW-9														1115
692	MW-7														1140
693	MW-3														1200
694	MW-1														1220
695	MW-2														1240

ANALYSIS REQUEST (Circle or Specify Method No.)

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

Relinquished by	Company	Date	Time	Received by	Company	Date	Time	Temp°c
	Nova	11/27	1072:32		TRACE	11/27/07	14:32	3.5°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Headspace (Y/N/NA)
Log-In Review

REMARKS:
All tests - Midland

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

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

Carrier # carry in

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LAB Order ID # 711722 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
8808 Camp Bowie Blvd. West, Suite 180, Ft. Worth, Texas 76116, Tel (817) 201-5260, Fax (817) 560-4336

Company Name: Nova Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Fax #: 432-520-7701
Contact Person: Curt Stanley E-mail:
Invoice to: (If different from above) Plateau
Project #: Trans-Monument #17 Project Name: Monument #17
Project Location (including state): New Mexico Sampler Signature: Curt Stanley

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
143688	MW-5	2	Vol	X				X				X		11/27/07	1005																			
689	MW-4														1025																			
690	MW-8														1055																			
691	MW-9														1115																			
692	MW-7														1140																			
693	MW-3														1200																			
694	MW-1														1220																			
695	MW-2														1240																			

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Curt Stanley	Nova	11/27	1072:32		TRACE	11/27/07	14:32	3.5°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact (Y) N
Headspace Y (N) NA
3.5°
Log-in-Review: AY

REMARKS: All tests - Midland 12/4 EP

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

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

Carrier # carry in

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TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 26, 2008

Work Order: 8022520

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
151570	MW-9	water	2008-02-22	12:30	2008-02-25
151571	MW-1	water	2008-02-22	13:30	2008-02-25
151572	MW-2	water	2008-02-22	14:00	2008-02-25
151573	MW-3	water	2008-02-22	14:30	2008-02-25

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 6 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 Monument #17 were received by TraceAnalysis, Inc. on 2008-02-25 and assigned to work order 8022520. Samples for work order 8022520 were received intact without headspace and at a temperature of 3.0 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 8022520 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: 151570 - MW-9

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45941	Date Analyzed:	2008-02-25	Analyzed By:	DC
Prep Batch:	39552	Sample Preparation:	2008-02-25	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	70 - 130
4-Bromofluorobenzene (4-BFB)		0.112	mg/L	1	0.100	112	70 - 130

Sample: 151571 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45941	Date Analyzed:	2008-02-25	Analyzed By:	DC
Prep Batch:	39552	Sample Preparation:	2008-02-25	Prepared By:	DC

Parameter	Flag	Result	RL	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)		0.552	mg/L	5	0.500	110	70 - 130
4-Bromofluorobenzene (4-BFB)		0.557	mg/L	5	0.500	111	70 - 130

Sample: 151572 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45941	Date Analyzed:	2008-02-25	Analyzed By:	DC
Prep Batch:	39552	Sample Preparation:	2008-02-25	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00350**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		**0.00110**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.113	mg/L	1	0.100	113	70 - 130
4-Bromofluorobenzene (4-BFB)		0.112	mg/L	1	0.100	112	70 - 130

Sample: 151573 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45941	Date Analyzed:	2008-02-25	Analyzed By:	DC
Prep Batch:	39552	Sample Preparation:	2008-02-25	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0182**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		**0.00150**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.111	mg/L	1	0.100	111	70 - 130
4-Bromofluorobenzene (4-BFB)		0.115	mg/L	1	0.100	115	70 - 130

Method Blank (1) QC Batch: 45941

QC Batch:	45941	Date Analyzed:	2008-02-25	Analyzed By:	DC
Prep Batch:	39552	QC Preparation:	2008-02-25	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)		0.0997	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch:	45941	Date Analyzed:	2008-02-25	Analyzed By:	DC
Prep Batch:	39552	QC Preparation:	2008-02-25	Prepared By:	DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.110	mg/L	1	0.100	<0.000300	110	70 - 130
Toluene	0.111	mg/L	1	0.100	<0.000200	111	70 - 130

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Ethylbenzene	0.112	mg/L	1	0.100	<0.000500	112	70 - 130
Xylene	0.334	mg/L	1	0.300	<0.000400	111	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
Benzene	0.109	mg/L	1	0.100	<0.000300	109	70 - 130	1	20
Toluene	0.110	mg/L	1	0.100	<0.000200	110	70 - 130	1	20
Ethylbenzene	0.112	mg/L	1	0.100	<0.000500	112	70 - 130	0	20
Xylene	0.333	mg/L	1	0.300	<0.000400	111	70 - 130	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.100	mg/L	1	0.100	101	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.115	0.116	mg/L	1	0.100	115	116	70 - 130

Matrix Spike (MS-1) Spiked Sample: 151571

QC Batch: 45941 | Date Analyzed: 2008-02-25 | Analyzed By: DC
Prep Batch: 39552 | QC Preparation: 2008-02-25 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.490	mg/L	5	0.500	<0.00150	98	70 - 130
Toluene	0.494	mg/L	5	0.500	<0.00100	99	70 - 130
Ethylbenzene	0.501	mg/L	5	0.500	<0.00250	100	70 - 130
Xylene	1.49	mg/L	5	1.50	<0.00200	99	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
Benzene	0.505	mg/L	5	0.500	<0.00150	101	70 - 130	3	20
Toluene	0.510	mg/L	5	0.500	<0.00100	102	70 - 130	3	20
Ethylbenzene	0.518	mg/L	5	0.500	<0.00250	104	70 - 130	3	20
Xylene	1.55	mg/L	5	1.50	<0.00200	103	70 - 130	4	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.556	0.553	mg/L	5	0.5	111	111	70 - 130
4-Bromofluorobenzene (4-BFB)	0.564	0.564	mg/L	5	0.5	113	113	70 - 130

Standard (ICV-1)

QC Batch: 45941 | Date Analyzed: 2008-02-25 | 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	2008-02-25
Toluene		mg/L	0.100	0.111	111	85 - 115	2008-02-25
Ethylbenzene		mg/L	0.100	0.114	114	85 - 115	2008-02-25
Xylene		mg/L	0.300	0.342	114	85 - 115	2008-02-25

Standard (CCV-1)

QC Batch: 45941 Date Analyzed: 2008-02-25 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	0.110	110	85 - 115	2008-02-25
Toluene		mg/L	0.100	0.112	112	85 - 115	2008-02-25
Ethylbenzene	[1]	mg/L	0.100	0.116	116	85 - 115	2008-02-25
Xylene	[2]	mg/L	0.300	0.348	116	85 - 115	2008-02-25

[1] Ethylbenzene outside of control limits on CCV. CCV component average is .1129 which is within acceptable range. This is acceptable by Method 8000.

[2] Xylene outside of control limits on CCV. CCV component average is .1129 which is within acceptable range. This is acceptable by Method 8000.

LAB Order ID # 60022520 Page 1 of 1

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Tel (817) 201-5260
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Company Name: Nova Phone #: 432-520-7720

Address: (Street, City, Zip) 2057 Commerce Fax #:

Contact Person: Curt Stanley E-mail:

Invoice to: (If different from above) Plains

Project #: TNM-Monument-17 Project Name: Monument #17

Project Location (including state): NM Sampler Signature: JI

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content						Turn Around Time if different from standard	Hold
151570	mw 9	3	VOA	X				X				X		2-28-8	1230		X																					
571	mw 1	↓	↓	↓				↓				↓		↓	1330		↓																					
572	mw 2														1400																							
573	mw 3														1430																							

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
	Nova	2-25-8	1105		TRACE	2/25/08	11:05	3.0°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY

Intact (Y) N

Headspace Y (N) NA

3.0 °

Log-in-Review

REMARKS:

2/27 EP

All tests - Midland

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

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

Carrier #

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: March 3, 2008

Work Order: 8022732

Project Location: Monument Lea Co., NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
151882	MW 7	water	2008-02-26	15:00	2008-02-27

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 4 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: 151882 - MW 7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46083	Date Analyzed:	2008-02-28	Analyzed By:	DC
Prep Batch:	39652	Sample Preparation:	2008-02-28	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)		0.0975	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.127	mg/L	1	0.100	127	71.5 - 132.3

Method Blank (1) QC Batch: 46083

QC Batch:	46083	Date Analyzed:	2008-02-28	Analyzed By:	DC
Prep Batch:	39652	QC Preparation:	2008-02-28	Prepared By:	DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene		<0.00290	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0971	mg/L	1	0.100	97	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.122	mg/L	1	0.100	122	69.1 - 122.3

Laboratory Control Spike (LCS-1)

QC Batch:	46083	Date Analyzed:	2008-02-28	Analyzed By:	DC
Prep Batch:	39652	QC Preparation:	2008-02-28	Prepared By:	DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.115	mg/L	1	0.100	<0.00110	115	84 - 119.7
Toluene	0.116	mg/L	1	0.100	<0.00100	116	84.9 - 118.2
Ethylbenzene	0.117	mg/L	1	0.100	<0.00100	117	84.4 - 118.6
Xylene	0.349	mg/L	1	0.300	<0.00290	116	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	0.114	mg/L	1	0.100	<0.00110	114	84 - 119.7	1	20
Toluene	0.114	mg/L	1	0.100	<0.00100	114	84.9 - 118.2	2	20
Ethylbenzene	0.113	mg/L	1	0.100	<0.00100	113	84.4 - 118.6	4	20
Xylene	0.340	mg/L	1	0.300	<0.00290	113	84.8 - 117.8	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0979	0.117	mg/L	1	0.100	98	117	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.124	0.112	mg/L	1	0.100	124	112	67.7 - 126.3

Matrix Spike (MS-1) Spiked Sample: 151878

QC Batch: 46083 | Date Analyzed: 2008-02-28 | Analyzed By: DC
Prep Batch: 39652 | QC Preparation: 2008-02-28 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.44	mg/L	10	1.00	0.4075	103	77.5 - 121.1
Toluene	1.03	mg/L	10	1.00	<0.0100	103	78.8 - 119.6
Ethylbenzene	1.21	mg/L	10	1.00	0.1826	103	77.9 - 120.5
Xylene	3.24	mg/L	10	3.00	0.1502	103	78.3 - 119.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.41	mg/L	10	1.00	0.4075	100	77.5 - 121.1	2	20
Toluene	1.01	mg/L	10	1.00	<0.0100	101	78.8 - 119.6	2	20
Ethylbenzene	1.20	mg/L	10	1.00	0.1826	102	77.9 - 120.5	1	20
Xylene	3.21	mg/L	10	3.00	0.1502	102	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)	0.972	0.977	mg/L	10	1	97	98	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	1.26	1.27	mg/L	10	1	126	127	59.4 - 127.3

Standard (ICV-1)

QC Batch: 46083 | Date Analyzed: 2008-02-28 | 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	0.110	110	85 - 115	2008-02-28
Toluene		mg/L	0.100	0.112	112	85 - 115	2008-02-28
Ethylbenzene		mg/L	0.100	0.113	113	85 - 115	2008-02-28
Xylene		mg/L	0.300	0.337	112	85 - 115	2008-02-28

Standard (CCV-1)

QC Batch: 46083 | Date Analyzed: 2008-02-28 | 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	0.108	108	85 - 115	2008-02-28
Toluene		mg/L	0.100	0.109	109	85 - 115	2008-02-28
Ethylbenzene		mg/L	0.100	0.111	111	85 - 115	2008-02-28
Xylene		mg/L	0.300	0.330	110	85 - 115	2008-02-28

LAB Order ID # 8022732 Page 1 of 1

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

Company Name:	Nova	**Phone #:**	432-520-7720
Address: (Street, City, Zip)	2057 Commerce	**Fax #:**	
Contact Person:	Curt Stanley	**E-mail:**	
Invoice to: (If different from above)	Plains		
Project #:	TNM-Monument #17	**Project Name:**	Monument #17
Project Location (including state):	NM	**Sampler Signature:**	JJ

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content					Turn Around Time if different from standard	Hold
51882	MW 7	3	VOA	X				X				X		2-26-8	1500		X																					

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
	NOVA	2-27-08	8:20		TRACO	2/27/08	8:20	3.1°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact Y / N
Headspace Y / N NA
3.1 °
Log-in-Review

REMARKS: all tests - midland

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

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

Carrier # Courier

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TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: June 5, 2008

Work Order: 8053037

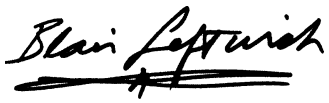
Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
161658	MW-4	water	2008-05-30	10:30	2008-05-30
161659	MW-9	water	2008-05-30	11:00	2008-05-30
161660	MW-7	water	2008-05-30	11:30	2008-05-30
161661	MW-1	water	2008-05-30	12:00	2008-05-30
161662	MW-2	water	2008-05-30	12:30	2008-05-30
161663	MW-3	water	2008-05-30	13:00	2008-05-30

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

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Certifications
Lubbock - NELAP T104704219-08-TX
El Paso - NELAP T104704221-08-TX

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

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2008-05-30 and assigned to work order 8053037. Samples for work order 8053037 were received intact without headspace and at a temperature of 2.5 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 8053037 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: 161658 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49003	Date Analyzed:	2008-06-03	Analyzed By:	DC
Prep Batch:	42097	Sample Preparation:	2008-06-03	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)		0.0716	mg/L	1	0.100	72	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0711	mg/L	1	0.100	71	52 - 124.1

Sample: 161659 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49003	Date Analyzed:	2008-06-03	Analyzed By:	DC
Prep Batch:	42097	Sample Preparation:	2008-06-03	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)		0.0714	mg/L	1	0.100	71	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0704	mg/L	1	0.100	70	52 - 124.1

Sample: 161660 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49045	Date Analyzed:	2008-06-04	Analyzed By:	DC
Prep Batch:	42121	Sample Preparation:	2008-06-04	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0675	mg/L	1	0.100	68	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0692	mg/L	1	0.100	69	52 - 124.1

Sample: 161661 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49003	Date Analyzed:	2008-06-03	Analyzed By:	DC
Prep Batch:	42097	Sample Preparation:	2008-06-03	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0301**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.0380**		mg/L	1	0.00100
Xylene		**0.0160**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0697	mg/L	1	0.100	70	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0716	mg/L	1	0.100	72	52 - 124.1

Sample: 161662 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49003	Date Analyzed:	2008-06-03	Analyzed By:	DC
Prep Batch:	42097	Sample Preparation:	2008-06-03	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0122**		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)		0.0689	mg/L	1	0.100	69	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0683	mg/L	1	0.100	68	52 - 124.1

Sample: 161663 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49003	Date Analyzed:	2008-06-03	Analyzed By:	DC
Prep Batch:	42097	Sample Preparation:	2008-06-03	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0329**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.00200**	mg/L	1	0.00100
Xylene		**0.00170**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0709	mg/L	1	0.100	71	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0714	mg/L	1	0.100	71	52 - 124.1

Method Blank (1) QC Batch: 49003

QC Batch:	49003	Date Analyzed:	2008-06-03	Analyzed By:	DC
Prep Batch:	42097	QC Preparation:	2008-06-03	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)		0.0764	mg/L	1	0.100	76	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0748	mg/L	1	0.100	75	37.1 - 130.9

Method Blank (1) QC Batch: 49045

QC Batch: 49045 | Date Analyzed: 2008-06-04 | Analyzed By: DC
Prep Batch: 42121 | QC Preparation: 2008-06-04 | 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)		0.0691	mg/L	1	0.100	69	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0683	mg/L	1	0.100	68	37.1 - 130.9

Laboratory Control Spike (LCS-1)

QC Batch: 49003 | Date Analyzed: 2008-06-03 | Analyzed By: DC
Prep Batch: 42097 | QC Preparation: 2008-06-03 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0934	mg/L	1	0.100	<0.000200	93	71.7 - 120.5
Toluene	0.0943	mg/L	1	0.100	<0.000200	94	75.4 - 118.8
Ethylbenzene	0.0945	mg/L	1	0.100	<0.000200	94	73.5 - 118
Xylene	0.283	mg/L	1	0.300	<0.000300	94	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	0.0925	mg/L	1	0.100	<0.000200	92	71.7 - 120.5	1	20
Toluene	0.0935	mg/L	1	0.100	<0.000200	94	75.4 - 118.8	1	20
Ethylbenzene	0.0941	mg/L	1	0.100	<0.000200	94	73.5 - 118	0	20
Xylene	0.281	mg/L	1	0.300	<0.000300	94	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)	0.0749	0.0750	mg/L	1	0.100	75	75	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0751	0.0746	mg/L	1	0.100	75	75	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 49045 | Date Analyzed: 2008-06-04 | Analyzed By: DC
Prep Batch: 42121 | QC Preparation: 2008-06-04 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0886	mg/L	1	0.100	<0.000200	89	71.7 - 120.5
Toluene	0.0896	mg/L	1	0.100	<0.000200	90	75.4 - 118.8
Ethylbenzene	0.0902	mg/L	1	0.100	<0.000200	90	73.5 - 118
Xylene	0.269	mg/L	1	0.300	<0.000300	90	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	0.0822	mg/L	1	0.100	<0.000200	82	71.7 - 120.5	8	20
Toluene	0.0835	mg/L	1	0.100	<0.000200	84	75.4 - 118.8	7	20
Ethylbenzene	0.0840	mg/L	1	0.100	<0.000200	84	73.5 - 118	7	20
Xylene	0.251	mg/L	1	0.300	<0.000300	84	72.9 - 118.2	7	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)	0.0725	0.0683	mg/L	1	0.100	72	68	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0724	0.0687	mg/L	1	0.100	72	69	43.9 - 132.4

Matrix Spike (MS-1) Spiked Sample: 161788

QC Batch: 49003 | Date Analyzed: 2008-06-03 | Analyzed By: DC
Prep Batch: 42097 | QC Preparation: 2008-06-03 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.75	mg/L	10	1.00	1.8774	87	10 - 160.8
Toluene	0.844	mg/L	10	1.00	0.0059	84	10 - 160.7
Ethylbenzene	1.02	mg/L	10	1.00	0.1638	86	10 - 158.3
Xylene	2.74	mg/L	10	3.00	0.2095	84	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	2.62	mg/L	10	1.00	1.8774	74	10 - 160.8	5	20
Toluene	0.789	mg/L	10	1.00	0.0059	78	10 - 160.7	7	20
Ethylbenzene	0.955	mg/L	10	1.00	0.1638	79	10 - 158.3	7	20
Xylene	2.56	mg/L	10	3.00	0.2095	78	10 - 158	7	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)	0.662	0.656	mg/L	10	1	66	66	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.682	0.672	mg/L	10	1	68	67	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 161786

QC Batch: 49045 | Date Analyzed: 2008-06-04 | Analyzed By: DC
Prep Batch: 42121 | QC Preparation: 2008-06-04 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.27	mg/L	10	1.00	0.6619	61	10 - 160.8
Toluene	0.619	mg/L	10	1.00	<0.00200	62	10 - 160.7
Ethylbenzene	0.645	mg/L	10	1.00	0.0173	63	10 - 158.3
Xylene	1.87	mg/L	10	3.00	<0.00300	62	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	1.30	mg/L	10	1.00	0.6619	64	10 - 160.8	2	20
Toluene	0.643	mg/L	10	1.00	<0.00200	64	10 - 160.7	4	20
Ethylbenzene	0.670	mg/L	10	1.00	0.0173	65	10 - 158.3	4	20
Xylene	1.95	mg/L	10	3.00	<0.00300	65	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)	0.610	0.611	mg/L	10	1	61	61	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.622	0.620	mg/L	10	1	62	62	37.5 - 136

Standard (ICV-1)

QC Batch: 49003 | Date Analyzed: 2008-06-03 | Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2008-06-03
Toluene		mg/L	0.100	0.104	104	85 - 115	2008-06-03
Ethylbenzene		mg/L	0.100	0.104	104	85 - 115	2008-06-03
Xylene		mg/L	0.300	0.311	104	85 - 115	2008-06-03

Standard (CCV-1)

QC Batch: 49003 | Date Analyzed: 2008-06-03 | Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0935	94	85 - 115	2008-06-03
Toluene		mg/L	0.100	0.0858	86	85 - 115	2008-06-03
Ethylbenzene		mg/L	0.100	0.0860	86	85 - 115	2008-06-03
Xylene		mg/L	0.300	0.258	86	85 - 115	2008-06-03

Standard (ICV-1)

QC Batch: 49045 | Date Analyzed: 2008-06-04 | 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	0.0893	89	85 - 115	2008-06-04
Toluene		mg/L	0.100	0.0903	90	85 - 115	2008-06-04
Ethylbenzene		mg/L	0.100	0.0906	91	85 - 115	2008-06-04
Xylene		mg/L	0.300	0.270	90	85 - 115	2008-06-04

Standard (CCV-1)

QC Batch: 49045 | Date Analyzed: 2008-06-04 | 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	0.0927	93	85 - 115	2008-06-04
Toluene		mg/L	0.100	0.0942	94	85 - 115	2008-06-04
Ethylbenzene		mg/L	0.100	0.0956	96	85 - 115	2008-06-04
Xylene		mg/L	0.300	0.286	95	85 - 115	2008-06-04

LAB Order ID # 8053037 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

Company Name: NOVA
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Dr.
Fax #:
Contact Person: Ron R.
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM - Monument #17
Project Name: Mon 17
Project Location (including state): NM
Sampler Signature: JM

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content					Turn Around Time if different from standard	Hold
1601658	MW 4	3	VOA	X				X				X		5.30.8	1030		X																				
659	MW 9	3	VOA	X				X				X		5.30.8	1100		X																				
660	MW 7	3	VOA	X				X				X		5.30.8	1130		X																				
661	MW 1	3	VOA	X				X				X		5.30.8	1200		X																				
662	MW 2	3	VOA	X				X				X		5.30.8	1230		X																				
663	MW 3	3	VOA	X				X				X		5.308	1300		X																				

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Jack Ma	Nova	5/30/08	1530	Allen Hilton	TRACE	5/30/08	1530	2.5°
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact (Y) N
Headspace Y (N) NA
2.5 °
Log-In-Review

REMARKS: all tests - Midland

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

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

Carrier # Carrington

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TRACEANALYSIS, INC.

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

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

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: September 2, 2008

Work Order: 8082505

Project Location: Monument Lea Co., NM
Project Name: TNM Monument #17
Project Number: Monument #17

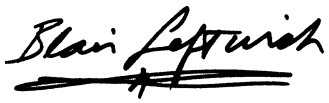
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171625	MW-1	water	2008-08-22	11:50	2008-08-25
171626	MW-2	water	2008-08-22	11:20	2008-08-25
171627	MW-3	water	2008-08-22	12:30	2008-08-25
171628	MW-7	water	2008-08-22	10:55	2008-08-25
171629	MW-9	water	2008-08-22	10:30	2008-08-25

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 8 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 TNM Monument #17 were received by TraceAnalysis, Inc. on 2008-08-25 and assigned to work order 8082505. Samples for work order 8082505 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 8082505 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: 171625 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	51940	Date Analyzed:	2008-08-29	Analyzed By:	DC
Prep Batch:	44537	Sample Preparation:	2008-08-29	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0431**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.0110**	mg/L	1	0.00100
Xylene		**0.0106**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0931	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0826	mg/L	1	0.100	83	40.1 - 136

Sample: 171626 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	51940	Date Analyzed:	2008-08-29	Analyzed By:	DC
Prep Batch:	44537	Sample Preparation:	2008-08-29	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0467**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		**0.00220**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0926	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0805	mg/L	1	0.100	80	40.1 - 136

Sample: 171627 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	51940	Date Analyzed:	2008-08-29	Analyzed By:	DC
Prep Batch:	44537	Sample Preparation:	2008-08-29	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00840**	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)		0.0933	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0799	mg/L	1	0.100	80	40.1 - 136

Sample: 171628 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	51940	Date Analyzed:	2008-08-29	Analyzed By:	DC
Prep Batch:	44537	Sample Preparation:	2008-08-29	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)		0.0955	mg/L	1	0.100	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0833	mg/L	1	0.100	83	40.1 - 136

Sample: 171629 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	51940	Date Analyzed:	2008-08-29	Analyzed By:	DC
Prep Batch:	44537	Sample Preparation:	2008-08-29	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)		0.0935	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0826	mg/L	1	0.100	83	40.1 - 136

Method Blank (1) QC Batch: 51940

QC Batch: 51940 Date Analyzed: 2008-08-29 Analyzed By: DC
Prep Batch: 44537 QC Preparation: 2008-08-29 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)		0.0950	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

Laboratory Control Spike (LCS-1)

QC Batch: 51940 Date Analyzed: 2008-08-29 Analyzed By: DC
Prep Batch: 44537 QC Preparation: 2008-08-29 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

Matrix Spike (MS-1) Spiked Sample: 172364

QC Batch: 51940 | Date Analyzed: 2008-08-29 | Analyzed By: DC
Prep Batch: 44537 | QC Preparation: 2008-08-29 | Prepared By: DC

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	[1]	0.0661	mg/L	1	0.100	<0.00110	66	77.5 - 121.1
Toluene	[2]	0.0658	mg/L	1	0.100	<0.00100	66	78.8 - 119.6
Ethylbenzene	[3]	0.0677	mg/L	1	0.100	<0.00100	68	77.9 - 120.5
Xylene	[4]	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	[5]	0.0984	mg/L	1	0.100	<0.00110	98	77.5 - 121.1	39	20
Toluene	[6]	0.0976	mg/L	1	0.100	<0.00100	98	78.8 - 119.6	39	20
Ethylbenzene	[7]	0.0992	mg/L	1	0.100	<0.00100	99	77.9 - 120.5	38	20
Xylene	[8]	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

Standard (ICV-1)

QC Batch: 51940 | Date Analyzed: 2008-08-29 | Analyzed By: DC

[1] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[2] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[3] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[4] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[5] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[6] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[7] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[8] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

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
Xylene		mg/L	0.300	0.277	92	85 - 115	2008-08-29

LAB Order ID # 8082505 Page 1 of 1

TraceAnalysis, Inc.

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1 (888) 588-3443

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

Company Name: Plains
Phone #: 520-7720
Address: (Street, City, Zip)
Fax #: 520-7701
Contact Person: Ron Rounsaville
E-mail:
Invoice to: (If different from above)
Project #: TNM- Monument + 17
Project Name: Monument 17
Project Location (including state): New Mexico
Sampler Signature: Daniel Carr

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
171625	MW-1	3	VOA	X				X				X		8-22-08	1150
626	MW-2	↓	↓	↓				↓				↓		↓	1120
627	MW-3														1230
628	MW-7														1055
629	MW-9	↓	↓	↓				↓				↓		↓	1030

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

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Daniel Carr	NOVA	8-25-08	8:50	Kelly Shelton	TRACE	8/25/08	8:50	3.5°
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact (Y) N
Headspace Y (N) NA
3.5 °
Log-in-Review

REMARKS: all tests Midland

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

Carrier #

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

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TRACEANALYSIS, INC.

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

Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: December 9, 2008

Work Order: 8111409

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
179306	MW-5	water	2008-11-13	10:00	2008-11-14
179307	MW-4	water	2008-11-13	10:30	2008-11-14
179308	MW-8	water	2008-11-13	11:00	2008-11-14
179309	MW-9	water	2008-11-13	11:30	2008-11-14
179310	MW-7	water	2008-11-13	12:00	2008-11-14
179311	MW-2	water	2008-11-13	12:30	2008-11-14
179312	MW-1	water	2008-11-13	13:00	2008-11-14
179313	MW-3	water	2008-11-13	13:30	2008-11-14

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

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

This report consists of a total of 20 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 Monument #17 were received by TraceAnalysis, Inc. on 2008-11-14 and assigned to work order 8111409. Samples for work order 8111409 were received intact without headspace and at a temperature of 3.4 deg. C.

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

Test	Method
BTEX	S 8021B
PAH	S 8270C

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 8111409 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: 179306 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	54356	Date Analyzed:	2008-11-17	Analyzed By:	AG
Prep Batch:	46495	Sample Preparation:	2008-11-17	Prepared By:	AG

Parameter	Flag	Result	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	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0960	mg/L	1	0.100	96	52 - 124.1

Sample: 179306 - MW-5

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	54498	Date Analyzed:	2008-11-20	Analyzed By:	DS
Prep Batch:	46610	Sample Preparation:	2008-11-14	Prepared By:	DS

Parameter	Flag	Result	RL Result	Units	Dilution	RL
Naphthalene			<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene			<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene			<0.000184	mg/L	0.922	0.000200
Acenaphthylene			<0.000184	mg/L	0.922	0.000200
Acenaphthene			<0.000184	mg/L	0.922	0.000200
Dibenzofuran			**0.00117**	mg/L	0.922	0.000200
Fluorene			**0.000408**	mg/L	0.922	0.000200
Anthracene			<0.000184	mg/L	0.922	0.000200
Phenanthrene			<0.000184	mg/L	0.922	0.000200
Fluoranthene			<0.000184	mg/L	0.922	0.000200
Pyrene			<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene			<0.000184	mg/L	0.922	0.000200
Chrysene			<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene			<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene			<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene			<0.000184	mg/L	0.922	0.000200

continued . . .

sample 179306 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
Indeno(1,2,3-cd)pyrene		<0.000184		mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184		mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184		mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0672	mg/L	0.922	0.0800	84	15.8 - 97.2
2-Fluorobiphenyl		0.0566	mg/L	0.922	0.0800	71	16 - 91.6
Terphenyl-d14		0.0802	mg/L	0.922	0.0800	100	55 - 117

Sample: 179307 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	54356	Date Analyzed:	2008-11-17	Analyzed By:	AG
Prep Batch:	46495	Sample Preparation:	2008-11-17	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0957	mg/L	1	0.100	96	52 - 124.1

Sample: 179307 - MW-4

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	54498	Date Analyzed:	2008-11-20	Analyzed By:	DS
Prep Batch:	46610	Sample Preparation:	2008-11-14	Prepared By:	DS

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		<0.000185		mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185		mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185		mg/L	0.926	0.000200

continued . . .

sample 179307 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0673	mg/L	0.926	0.0800	84	15.8 - 97.2
2-Fluorobiphenyl		0.0539	mg/L	0.926	0.0800	67	16 - 91.6
Terphenyl-d14		0.0817	mg/L	0.926	0.0800	102	55 - 117

Sample: 179308 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	54356	Date Analyzed:	2008-11-17	Analyzed By:	AG
Prep Batch:	46495	Sample Preparation:	2008-11-17	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0980	mg/L	1	0.100	98	52 - 124.1

Sample: 179308 - MW-8

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	54498	Date Analyzed:	2008-11-20	Analyzed By:	DS
Prep Batch:	46610	Sample Preparation:	2008-11-14	Prepared By:	DS

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0400	mg/L	0.922	0.0800	50	15.8 - 97.2
2-Fluorobiphenyl		0.0317	mg/L	0.922	0.0800	40	16 - 91.6
Terphenyl-d14		0.0469	mg/L	0.922	0.0800	59	55 - 117

Sample: 179309 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	54356	Date Analyzed:	2008-11-17	Analyzed By:	AG
Prep Batch:	46495	Sample Preparation:	2008-11-17	Prepared By:	AG

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

continued . . .

sample 179309 continued ...

Parameter	Flag	Result	RL	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)		0.102	mg/L	1	0.100	102	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0951	mg/L	1	0.100	95	52 - 124.1

Sample: 179309 - MW-9

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	54498	Date Analyzed:	2008-11-20	Analyzed By:	DS
Prep Batch:	46610	Sample Preparation:	2008-11-14	Prepared By:	DS

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		<0.000184		mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200
Acenaphthylene		<0.000184		mg/L	0.922	0.000200
Acenaphthene		<0.000184		mg/L	0.922	0.000200
Dibenzofuran		**0.000223**		mg/L	0.922	0.000200
Fluorene		<0.000184		mg/L	0.922	0.000200
Anthracene		<0.000184		mg/L	0.922	0.000200
Phenanthrene		<0.000184		mg/L	0.922	0.000200
Fluoranthene		<0.000184		mg/L	0.922	0.000200
Pyrene		<0.000184		mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184		mg/L	0.922	0.000200
Chrysene		<0.000184		mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184		mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184		mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184		mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184		mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184		mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184		mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0737	mg/L	0.922	0.0800	92	15.8 - 97.2
2-Fluorobiphenyl		0.0569	mg/L	0.922	0.0800	71	16 - 91.6
Terphenyl-d14		0.0819	mg/L	0.922	0.0800	102	55 - 117

Sample: 179310 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	54356	Date Analyzed:	2008-11-17	Analyzed By:	AG
Prep Batch:	46495	Sample Preparation:	2008-11-17	Prepared By:	AG

Parameter	Flag	Result	RL Result	Units	Dilution	RL
Benzene			**0.00130**	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)		0.105	mg/L	1	0.100	105	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	52 - 124.1

Sample: 179310 - MW-7

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	54498	Date Analyzed:	2008-11-20	Analyzed By:	DS
Prep Batch:	46610	Sample Preparation:	2008-11-14	Prepared By:	DS

Parameter	Flag	Result	RL Result	Units	Dilution	RL
Naphthalene			<0.000926	mg/L	4.63	0.000200
2-Methylnaphthalene			<0.000926	mg/L	4.63	0.000200
1-Methylnaphthalene			<0.000926	mg/L	4.63	0.000200
Acenaphthylene			<0.000926	mg/L	4.63	0.000200
Acenaphthene			<0.000926	mg/L	4.63	0.000200
Dibenzofuran			**0.00650**	mg/L	4.63	0.000200
Fluorene			**0.00262**	mg/L	4.63	0.000200
Anthracene			<0.000926	mg/L	4.63	0.000200
Phenanthrene			**0.00123**	mg/L	4.63	0.000200
Fluoranthene			<0.000926	mg/L	4.63	0.000200
Pyrene			<0.000926	mg/L	4.63	0.000200
Benzo(a)anthracene			<0.000926	mg/L	4.63	0.000200
Chrysene			<0.000926	mg/L	4.63	0.000200
Benzo(b)fluoranthene			<0.000926	mg/L	4.63	0.000200
Benzo(k)fluoranthene			<0.000926	mg/L	4.63	0.000200
Benzo(a)pyrene			<0.000926	mg/L	4.63	0.000200
Indeno(1,2,3-cd)pyrene			<0.000926	mg/L	4.63	0.000200
Dibenzo(a,h)anthracene			<0.000926	mg/L	4.63	0.000200

continued . . .

sample 179310 continued . . .

Parameter	Flag	Result	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene			<0.000926	mg/L	4.63	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0651	mg/L	4.63	0.0800	81	15.8 - 97.2
2-Fluorobiphenyl		0.0629	mg/L	4.63	0.0800	79	16 - 91.6
Terphenyl-d14		0.0784	mg/L	4.63	0.0800	98	55 - 117

Sample: 179311 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	54356	Date Analyzed:	2008-11-17	Analyzed By:	AG
Prep Batch:	46495	Sample Preparation:	2008-11-17	Prepared By:	AG

Parameter	Flag	Result	RL Result	Units	Dilution	RL
Benzene			**0.0128**	mg/L	1	0.00100
Toluene			<0.00100	mg/L	1	0.00100
Ethylbenzene			<0.00100	mg/L	1	0.00100
Xylene			**0.00120**	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

Sample: 179311 - MW-2

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	54498	Date Analyzed:	2008-11-20	Analyzed By:	DS
Prep Batch:	46610	Sample Preparation:	2008-11-14	Prepared By:	DS

Parameter	Flag	Result	RL Result	Units	Dilution	RL
Naphthalene			<0.000185	mg/L	0.926	0.000200
2-Methylnaphthalene			<0.000185	mg/L	0.926	0.000200
1-Methylnaphthalene			<0.000185	mg/L	0.926	0.000200
Acenaphthylene			<0.000185	mg/L	0.926	0.000200
Acenaphthene			<0.000185	mg/L	0.926	0.000200

continued . . .

sample 179311 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0775	mg/L	0.926	0.0800	97	15.8 - 97.2
2-Fluorobiphenyl		0.0633	mg/L	0.926	0.0800	79	16 - 91.6
Terphenyl-d14		0.0826	mg/L	0.926	0.0800	103	55 - 117

Sample: 179312 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	54356	Date Analyzed:	2008-11-17	Analyzed By:	AG
Prep Batch:	46495	Sample Preparation:	2008-11-17	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00340**		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)		0.0971	mg/L	1	0.100	97	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0941	mg/L	1	0.100	94	52 - 124.1

Sample: 179312 - MW-1

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	54498	Date Analyzed:	2008-11-20	Analyzed By:	DS
Prep Batch:	46610	Sample Preparation:	2008-11-14	Prepared By:	DS

Parameter	Flag	Result	RL Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		**0.000861**	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0596	mg/L	0.922	0.0800	74	15.8 - 97.2
2-Fluorobiphenyl		0.0424	mg/L	0.922	0.0800	53	16 - 91.6
Terphenyl-d14		0.0826	mg/L	0.922	0.0800	103	55 - 117

Sample: 179313 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	54356	Date Analyzed:	2008-11-17	Analyzed By:	AG
Prep Batch:	46495	Sample Preparation:	2008-11-17	Prepared By:	AG

Parameter	Flag	Result	RL Units	Dilution	RL
Benzene		**0.00310**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

continued . . .

sample 179313 continued ...

Parameter	Flag	Result	RL	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)		0.0996	mg/L	1	0.100	100	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0970	mg/L	1	0.100	97	52 - 124.1

Sample: 179313 - MW-3

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	54498	Date Analyzed:	2008-11-20	Analyzed By:	DS
Prep Batch:	46610	Sample Preparation:	2008-11-14	Prepared By:	DS

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		<0.000184		mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200
Acenaphthylene		<0.000184		mg/L	0.922	0.000200
Acenaphthene		<0.000184		mg/L	0.922	0.000200
Dibenzofuran		**0.00159**		mg/L	0.922	0.000200
Fluorene		**0.000252**		mg/L	0.922	0.000200
Anthracene		<0.000184		mg/L	0.922	0.000200
Phenanthrene		<0.000184		mg/L	0.922	0.000200
Fluoranthene		<0.000184		mg/L	0.922	0.000200
Pyrene		<0.000184		mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184		mg/L	0.922	0.000200
Chrysene		<0.000184		mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184		mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184		mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184		mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184		mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184		mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184		mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0474	mg/L	0.922	0.0800	59	15.8 - 97.2
2-Fluorobiphenyl		0.0422	mg/L	0.922	0.0800	53	16 - 91.6
Terphenyl-d14		0.0728	mg/L	0.922	0.0800	91	55 - 117

Method Blank (1) QC Batch: 54356

QC Batch:	54356	Date Analyzed:	2008-11-17	Analyzed By:	AG
Prep Batch:	46495	QC Preparation:	2008-11-17	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)		0.0971	mg/L	1	0.100	97	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0962	mg/L	1	0.100	96	37.1 - 130.9

Method Blank (1) QC Batch: 54498

QC Batch:	54498	Date Analyzed:	2008-11-20	Analyzed By:	DS
Prep Batch:	46610	QC Preparation:	2008-11-14	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
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		0.0522	mg/L	1	0.0800	65	15.8 - 97.2
2-Fluorobiphenyl		0.0433	mg/L	1	0.0800	54	16 - 91.6
Terphenyl-d14		0.0831	mg/L	1	0.0800	104	55 - 117

Laboratory Control Spike (LCS-1)

QC Batch: 54356 | Date Analyzed: 2008-11-17 | Analyzed By: AG
Prep Batch: 46495 | QC Preparation: 2008-11-17 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.107	mg/L	1	0.100	<0.000800	107	71.7 - 120.5
Toluene	0.106	mg/L	1	0.100	<0.000800	106	75.4 - 118.8
Ethylbenzene	0.104	mg/L	1	0.100	<0.000500	104	73.5 - 118
Xylene	0.313	mg/L	1	0.300	<0.000900	104	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	0.0966	mg/L	1	0.100	<0.000800	97	71.7 - 120.5	10	20
Toluene	0.0961	mg/L	1	0.100	<0.000800	96	75.4 - 118.8	10	20
Ethylbenzene	0.0964	mg/L	1	0.100	<0.000500	96	73.5 - 118	8	20
Xylene	0.291	mg/L	1	0.300	<0.000900	97	72.9 - 118.2	7	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.104	0.0992	mg/L	1	0.100	104	99	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.101	0.0969	mg/L	1	0.100	101	97	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 54498 | Date Analyzed: 2008-11-20 | Analyzed By: DS
Prep Batch: 46610 | QC Preparation: 2008-11-14 | Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0500	mg/L	1	0.0800	<0.0000730	62	20.4 - 86.5
2-Methylnaphthalene	0.0573	mg/L	1	0.0800	<0.0000509	72	18.2 - 94.2
1-Methylnaphthalene	0.0579	mg/L	1	0.0800	<0.0000748	72	25.4 - 91.1
Acenaphthylene	0.0608	mg/L	1	0.0800	<0.0000767	76	32.4 - 109

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Acenaphthene	0.0597	mg/L	1	0.0800	<0.000142	75	30.4 - 104
Dibenzofuran	0.0649	mg/L	1	0.0800	<0.0000470	81	14.8 - 119
Fluorene	0.0753	mg/L	1	0.0800	<0.0000569	94	26.5 - 124
Anthracene	0.0678	mg/L	1	0.0800	<0.0000876	85	44.2 - 113
Phenanthrene	0.0670	mg/L	1	0.0800	<0.0000552	84	44.7 - 109
Fluoranthene	0.0718	mg/L	1	0.0800	<0.0000954	90	48.2 - 125
Pyrene	0.0730	mg/L	1	0.0800	<0.0000497	91	40.5 - 128
Benzo(a)anthracene	0.0732	mg/L	1	0.0800	<0.0000328	92	45 - 115
Chrysene	0.0772	mg/L	1	0.0800	<0.0000990	96	46.8 - 119
Benzo(b)fluoranthene	0.0728	mg/L	1	0.0800	<0.0000684	91	39.9 - 129
Benzo(k)fluoranthene	0.0771	mg/L	1	0.0800	<0.0000830	96	42.6 - 136
Benzo(a)pyrene	0.0841	mg/L	1	0.0800	<0.0000549	105	45 - 143
Indeno(1,2,3-cd)pyrene	0.100	mg/L	1	0.0800	<0.0000869	125	51.1 - 156
Dibenzo(a,h)anthracene	0.0996	mg/L	1	0.0800	<0.0000605	124	48.2 - 151
Benzo(g,h,i)perylene	0.0982	mg/L	1	0.0800	<0.0000681	123	48.3 - 152

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	0.0512	mg/L	1	0.0800	<0.0000730	64	20.4 - 86.5	2	20
2-Methylnaphthalene	0.0575	mg/L	1	0.0800	<0.0000509	72	18.2 - 94.2	0	20
1-Methylnaphthalene	0.0570	mg/L	1	0.0800	<0.0000748	71	25.4 - 91.1	2	20
Acenaphthylene	0.0636	mg/L	1	0.0800	<0.0000767	80	32.4 - 109	4	20
Acenaphthene	0.0621	mg/L	1	0.0800	<0.000142	78	30.4 - 104	4	20
Dibenzofuran	0.0675	mg/L	1	0.0800	<0.0000470	84	14.8 - 119	4	20
Fluorene	0.0791	mg/L	1	0.0800	<0.0000569	99	26.5 - 124	5	20
Anthracene	0.0692	mg/L	1	0.0800	<0.0000876	86	44.2 - 113	2	20
Phenanthrene	0.0683	mg/L	1	0.0800	<0.0000552	85	44.7 - 109	2	20
Fluoranthene	0.0746	mg/L	1	0.0800	<0.0000954	93	48.2 - 125	4	20
Pyrene	0.0758	mg/L	1	0.0800	<0.0000497	95	40.5 - 128	4	20
Benzo(a)anthracene	0.0760	mg/L	1	0.0800	<0.0000328	95	45 - 115	4	20
Chrysene	0.0799	mg/L	1	0.0800	<0.0000990	100	46.8 - 119	3	20
Benzo(b)fluoranthene	0.0755	mg/L	1	0.0800	<0.0000684	94	39.9 - 129	4	20
Benzo(k)fluoranthene	0.0799	mg/L	1	0.0800	<0.0000830	100	42.6 - 136	4	20
Benzo(a)pyrene	0.0868	mg/L	1	0.0800	<0.0000549	108	45 - 143	3	20
Indeno(1,2,3-cd)pyrene	0.103	mg/L	1	0.0800	<0.0000869	129	51.1 - 156	3	20
Dibenzo(a,h)anthracene	0.103	mg/L	1	0.0800	<0.0000605	129	48.2 - 151	3	20
Benzo(g,h,i)perylene	0.101	mg/L	1	0.0800	<0.0000681	126	48.3 - 152	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
Nitrobenzene-d5	0.0654	0.0670	mg/L	1	0.0800	82	84	15.8 - 97.2
2-Fluorobiphenyl	0.0515	0.0539	mg/L	1	0.0800	64	67	16 - 91.6

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Terphenyl-d14	0.0819	0.0846	mg/L	1	0.0800	102	106	55 - 117

Matrix Spike (MS-1) Spiked Sample: 179409

QC Batch: 54356 | Date Analyzed: 2008-11-17 | Analyzed By: AG
Prep Batch: 46495 | QC Preparation: 2008-11-17 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000800	102	10 - 160.8
Toluene	0.0993	mg/L	1	0.100	<0.000800	99	10 - 160.7
Ethylbenzene	0.0971	mg/L	1	0.100	<0.000500	97	10 - 158.3
Xylene	0.291	mg/L	1	0.300	<0.000900	97	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	0.102	mg/L	1	0.100	<0.000800	102	10 - 160.8	0	20
Toluene	0.100	mg/L	1	0.100	<0.000800	100	10 - 160.7	1	20
Ethylbenzene	0.0989	mg/L	1	0.100	<0.000500	99	10 - 158.3	2	20
Xylene	0.298	mg/L	1	0.300	<0.000900	99	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)	0.102	0.101	mg/L	1	0.1	102	101	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.0985	0.0970	mg/L	1	0.1	98	97	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 179000

QC Batch: 54498 | Date Analyzed: 2008-11-20 | Analyzed By: DS
Prep Batch: 46610 | QC Preparation: 2008-11-14 | Prepared By: DS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0424	mg/L	1	0.0800	<0.0000730	53	17.2 - 92.9
2-Methylnaphthalene	0.0431	mg/L	1	0.0800	<0.0000509	54	50 - 150
1-Methylnaphthalene	0.0424	mg/L	1	0.0800	<0.0000748	53	50 - 150
Acenaphthylene	0.0441	mg/L	1	0.0800	<0.0000767	55	21.7 - 109
Acenaphthene	0.0439	mg/L	1	0.0800	<0.000142	55	20.5 - 106
Dibenzofuran	0.0621	mg/L	1	0.0800	<0.0000470	78	20.4 - 114

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluorene	0.0548	mg/L	1	0.0800	<0.0000569	68	18.9 - 118
Anthracene	0.0415	mg/L	1	0.0800	<0.0000876	52	31.9 - 120
Phenanthrene	0.0427	mg/L	1	0.0800	<0.0000552	53	32.9 - 121
Fluoranthene	0.0432	mg/L	1	0.0800	<0.0000954	54	32.8 - 136
Pyrene	0.0443	mg/L	1	0.0800	<0.0000497	55	10 - 170
Benzo(a)anthracene	0.0420	mg/L	1	0.0800	<0.0000328	52	18.5 - 136
Chrysene	0.0440	mg/L	1	0.0800	<0.0000990	55	18.6 - 145
Benzo(b)fluoranthene	0.0425	mg/L	1	0.0800	<0.0000684	53	18 - 135
Benzo(k)fluoranthene	0.0465	mg/L	1	0.0800	<0.0000830	58	20.2 - 150
Benzo(a)pyrene	0.0492	mg/L	1	0.0800	<0.0000549	62	21.8 - 146
Indeno(1,2,3-cd)pyrene	0.0587	mg/L	1	0.0800	<0.0000869	73	25.2 - 150
Dibenzo(a,h)anthracene	0.0583	mg/L	1	0.0800	<0.0000605	73	15 - 156
Benzo(g,h,i)perylene	0.0577	mg/L	1	0.0800	<0.0000681	72	31 - 136

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
Naphthalene [1]	<0.0000730	mg/L	1	0.0800	<0.0000730	0	17.2 - 92.9	200	20
2-Methylnaphthalene	<0.0000509	mg/L	1	0.0800	<0.0000509	0	50 - 150	200	20
1-Methylnaphthalene	<0.0000748	mg/L	1	0.0800	<0.0000748	0	50 - 150	200	20
Acenaphthylene	<0.0000767	mg/L	1	0.0800	<0.0000767	0	21.7 - 109	200	20
Acenaphthene	<0.000142	mg/L	1	0.0800	<0.000142	0	20.5 - 106	200	20
Dibenzofuran	<0.0000470	mg/L	1	0.0800	<0.0000470	0	20.4 - 114	200	20
Fluorene	<0.0000569	mg/L	1	0.0800	<0.0000569	0	18.9 - 118	200	20
Anthracene	<0.0000876	mg/L	1	0.0800	<0.0000876	0	31.9 - 120	200	20
Phenanthrene	<0.0000552	mg/L	1	0.0800	<0.0000552	0	32.9 - 121	200	20
Fluoranthene	<0.0000954	mg/L	1	0.0800	<0.0000954	0	32.8 - 136	200	20
Pyrene	<0.0000497	mg/L	1	0.0800	<0.0000497	0	10 - 170	200	20
Benzo(a)anthracene	<0.0000328	mg/L	1	0.0800	<0.0000328	0	18.5 - 136	200	20
Chrysene	<0.0000990	mg/L	1	0.0800	<0.0000990	0	18.6 - 145	200	20
Benzo(b)fluoranthene	<0.0000684	mg/L	1	0.0800	<0.0000684	0	18 - 135	200	20
Benzo(k)fluoranthene	<0.0000830	mg/L	1	0.0800	<0.0000830	0	20.2 - 150	200	20
Benzo(a)pyrene	<0.0000549	mg/L	1	0.0800	<0.0000549	0	21.8 - 146	200	20
Indeno(1,2,3-cd)pyrene	<0.0000869	mg/L	1	0.0800	<0.0000869	0	25.2 - 150	200	20
Dibenzo(a,h)anthracene	<0.0000605	mg/L	1	0.0800	<0.0000605	0	15 - 156	200	20
Benzo(g,h,i)perylene	<0.0000681	mg/L	1	0.0800	<0.0000681	0	31 - 136	200	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
Nitrobenzene-d5	0.0528	0.00	mg/L	1	0.08	66	0	15.8 - 97.2
2-Fluorobiphenyl	0.0390	0.00	mg/L	1	0.08	49	0	16 - 91.6

continued ...

[1] RPD is out of range because a matrix spike duplicate was not prepared.

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Terphenyl-d14	0.0705	0.00	mg/L	1	0.08	88	0	55 - 117

Standard (ICV-1)

QC Batch: 54356 Date Analyzed: 2008-11-17 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	0.114	114	85 - 115	2008-11-17
Toluene		mg/L	0.100	0.111	111	85 - 115	2008-11-17
Ethylbenzene		mg/L	0.100	0.112	112	85 - 115	2008-11-17
Xylene		mg/L	0.300	0.329	110	85 - 115	2008-11-17

Standard (CCV-1)

QC Batch: 54356 Date Analyzed: 2008-11-17 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	0.0982	98	85 - 115	2008-11-17
Toluene		mg/L	0.100	0.0977	98	85 - 115	2008-11-17
Ethylbenzene		mg/L	0.100	0.0970	97	85 - 115	2008-11-17
Xylene		mg/L	0.300	0.292	97	85 - 115	2008-11-17

Standard (CCV-1)

QC Batch: 54498 Date Analyzed: 2008-11-20 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	55.0	92	80 - 120	2008-11-20
2-Methylnaphthalene		mg/L	60.0	56.1	94	80 - 120	2008-11-20
1-Methylnaphthalene		mg/L	60.0	57.9	96	80 - 120	2008-11-20
Acenaphthylene		mg/L	60.0	55.6	93	80 - 120	2008-11-20
Acenaphthene		mg/L	60.0	56.1	94	80 - 120	2008-11-20
Dibenzofuran		mg/L	60.0	61.7	103	80 - 120	2008-11-20
Fluorene		mg/L	60.0	68.5	114	80 - 120	2008-11-20
Anthracene		mg/L	60.0	57.5	96	80 - 120	2008-11-20
Phenanthrene		mg/L	60.0	56.0	93	80 - 120	2008-11-20

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoranthene		mg/L	60.0	56.2	94	80 - 120	2008-11-20
Pyrene		mg/L	60.0	56.5	94	80 - 120	2008-11-20
Benzo(a)anthracene		mg/L	60.0	56.5	94	80 - 120	2008-11-20
Chrysene		mg/L	60.0	58.5	98	80 - 120	2008-11-20
Benzo(b)fluoranthene		mg/L	60.0	61.2	102	80 - 120	2008-11-20
Benzo(k)fluoranthene		mg/L	60.0	58.1	97	80 - 120	2008-11-20
Benzo(a)pyrene		mg/L	60.0	62.5	104	80 - 120	2008-11-20
Indeno(1,2,3-cd)pyrene	[2]	mg/L	60.0	76.5	128	80 - 120	2008-11-20
Dibenzo(a,h)anthracene	[3]	mg/L	60.0	77.3	129	80 - 120	2008-11-20
Benzo(g,h,i)perylene	[4]	mg/L	60.0	74.2	124	80 - 120	2008-11-20

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		68.0	mg/L	1	60.0	113	80 - 120
2-Fluorobiphenyl		51.0	mg/L	1	60.0	85	80 - 120
Terphenyl-d14		62.9	mg/L	1	60.0	105	80 - 120

[2] Indeno(1,2,3-cd)pyrene out of range for CV. Sample values above reporting limits will be flagged as estimated concentration. •
[3] Dibenzo(a,h)anthracene out of range for CV. Sample values above reporting limits will be flagged as estimated concentration. •
[4] Benzo(g,h,i)perylene out of range for CV. Sample values above reporting limits will be flagged as estimated concentration. •

LAB Order ID # 8111409

Page 1 of 1

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Invoice to: (If different from above) Plateau
Project #: TNM - Monument #17
Project Name: Monument #17
Project Location (including state): NM
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
179306	MW-5	4		X				X				X		11/13 2008	1000		X			X													
307	MW-4	↓		↓				↓				↓		↓	1030		↓			↓													
308	MW-8														1100																	
309	MW-9														1130																	
310	MW-7														1200																	
311	MW-2														1230																	
312	MW-1														1300																	
313	MW-3	↓		↓				↓				↓		↓	1330		↓			↓													

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:
	Nova	11/14/08	9:55		Trace	11-14-08	09:58	3.4°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:

LAB USE ONLY
Intact (Y) N
Headspace Y (N) NA
3 4 5
Log-In-Review

REMARKS: BTEX Midland
PAH Lubbock

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

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

Carrier # Carry-in

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TRACEANALYSIS, INC.

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
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E-Mail: lab@traceanalysis.com

Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 16, 2009

Work Order: 9021227

Project Location: Monument Lea Co., NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
187352	MW 9	water	2009-02-12	09:00	2009-02-12
187353	MW 7	water	2009-02-12	10:00	2009-02-12
187354	MW 3	water	2009-02-12	11:00	2009-02-12
187355	MW 1	water	2009-02-12	12:00	2009-02-12
187356	MW 2	water	2009-02-12	13:00	2009-02-12

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 8 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 TNM Monument #17 were received by TraceAnalysis, Inc. on 2009-02-12 and assigned to work order 9021227. Samples for work order 9021227 were received intact without headspace and at a temperature of 2.3 deg. C (straight from field).

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	48544	2009-02-12 at 16:00	56838	2009-02-12 at 16:05

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 9021227 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: 187352 - MW 9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56838	Date Analyzed:	2009-02-12	Analyzed By:	AG
Prep Batch:	48544	Sample Preparation:	2009-02-12	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0912	mg/L	1	0.100	91	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0977	mg/L	1	0.100	98	40.1 - 136

Sample: 187353 - MW 7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56838	Date Analyzed:	2009-02-12	Analyzed By:	AG
Prep Batch:	48544	Sample Preparation:	2009-02-12	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0937	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0872	mg/L	1	0.100	87	40.1 - 136

Sample: 187354 - MW 3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56838	Date Analyzed:	2009-02-12	Analyzed By:	AG
Prep Batch:	48544	Sample Preparation:	2009-02-12	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0121**	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)		0.0925	mg/L	1	0.100	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0830	mg/L	1	0.100	83	40.1 - 136

Sample: 187355 - MW 1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56838	Date Analyzed:	2009-02-12	Analyzed By:	AG
Prep Batch:	48544	Sample Preparation:	2009-02-12	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)		0.0916	mg/L	1	0.100	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0827	mg/L	1	0.100	83	40.1 - 136

Sample: 187356 - MW 2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	56838	Date Analyzed:	2009-02-12	Analyzed By:	AG
Prep Batch:	48544	Sample Preparation:	2009-02-12	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00370**	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)		0.0919	mg/L	1	0.100	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0830	mg/L	1	0.100	83	40.1 - 136

Method Blank (1) QC Batch: 56838

QC Batch: 56838 Date Analyzed: 2009-02-12 Analyzed By: AG
Prep Batch: 48544 QC Preparation: 2009-02-12 Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0927	mg/L	1	0.100	93	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0895	mg/L	1	0.100	90	69.1 - 132.3

Laboratory Control Spike (LCS-1)

QC Batch: 56838 Date Analyzed: 2009-02-12 Analyzed By: AG
Prep Batch: 48544 QC Preparation: 2009-02-12 Prepared By: AG

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	0.106	mg/L	1	0.100	<0.00100	106	84.9 - 118.2
Ethylbenzene	0.0994	mg/L	1	0.100	<0.00100	99	84.4 - 118.6
Xylene	0.302	mg/L	1	0.300	<0.00290	101	84.8 - 117.8

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

Param	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	1	20
Toluene	0.101	mg/L	1	0.100	<0.00100	101	84.9 - 118.2	5	20
Ethylbenzene	0.104	mg/L	1	0.100	<0.00100	104	84.4 - 118.6	4	20
Xylene	0.312	mg/L	1	0.300	<0.00290	104	84.8 - 117.8	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0977	0.0983	mg/L	1	0.100	98	98	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.104	0.104	mg/L	1	0.100	104	104	59.7 - 136.3

Matrix Spike (MS-1) Spiked Sample: 187227

QC Batch: 56838 | Date Analyzed: 2009-02-12 | Analyzed By: AG
Prep Batch: 48544 | QC Preparation: 2009-02-12 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	3.97	mg/L	20	2.00	2.388	79	77.5 - 121.1
Toluene	1.81	mg/L	20	2.00	<0.0200	90	78.8 - 119.6
Ethylbenzene	3.64	mg/L	20	2.00	1.8383	90	77.9 - 120.5
Xylene	5.80	mg/L	20	6.00	0.2792	92	78 - 119.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	4.32	mg/L	20	2.00	2.388	97	77.5 - 121.1	8	20
Toluene	1.94	mg/L	20	2.00	<0.0200	97	78.8 - 119.6	7	20
Ethylbenzene	4.03	mg/L	20	2.00	1.8383	110	77.9 - 120.5	10	20
Xylene	6.36	mg/L	20	6.00	0.2792	101	78 - 119.4	9	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.92	1.94	mg/L	20	2	96	97	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	1.79	1.81	mg/L	20	2	90	90	59.4 - 127.3

Standard (ICV-1)

QC Batch: 56838 | Date Analyzed: 2009-02-12 | 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	0.111	111	85 - 115	2009-02-12
Toluene		mg/L	0.100	0.105	105	85 - 115	2009-02-12
Ethylbenzene		mg/L	0.100	0.101	101	85 - 115	2009-02-12
Xylene		mg/L	0.300	0.300	100	85 - 115	2009-02-12

Standard (CCV-1)

QC Batch: 56838 | Date Analyzed: 2009-02-12 | 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	0.0931	93	85 - 115	2009-02-12
Toluene		mg/L	0.100	0.0963	96	85 - 115	2009-02-12
Ethylbenzene		mg/L	0.100	0.0948	95	85 - 115	2009-02-12
Xylene		mg/L	0.300	0.278	93	85 - 115	2009-02-12

LAB Order ID # 9021227 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
8808 Camp Bowie Blvd. West, Suite 180, Ft. Worth, Texas 76116, Tel (817) 201-5260, Fax (817) 560-4336

Company Name: NOVA
Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 Commerce
Fax #:
Contact Person: Ron Romsaville
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM-Monument #17
Project Name: Monument #17
Project Location (including state): NM
Sampler Signature: JD

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2009)	TIME
187352	mw 9	3	voa	X				X				X		2-12	900
353	mw 7	↓	↓	↓				↓				↓		↓	1000
354	mw 3														1100
355	mw 1														1200
356	mw 2	↓	↓	↓				↓				↓		↓	1300

ANALYSIS REQUEST (Circle or Specify Method No.)

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

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:
[signature]	NOVA	2-12-9	1520	Lindsey [signature]	Trace	2-12-09	15:20	2.3
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:

LAB USE ONLY
Intact (Y) N
Headspace Y / N / NA
2.3 °C
Log-in-Review

REMARKS: Straight from field
All tests Midland

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

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

Carrier # Carry-in

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TRACEANALYSIS, INC.

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200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 20, 2009

Work Order: 9051512

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
196035	MW-4	water	2009-05-14	09:00	2009-05-15
196036	MW-9	water	2009-05-14	09:45	2009-05-15
196037	MW-7	water	2009-05-14	10:30	2009-05-15
196038	MW-2	water	2009-05-14	11:15	2009-05-15
196039	MW-1	water	2009-05-14	12:00	2009-05-15
196040	MW-3	water	2009-05-14	12:45	2009-05-15

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

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

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2009-05-15 and assigned to work order 9051512. Samples for work order 9051512 were received intact without headspace and at a temperature of 1.0 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	50859	2009-05-18 at 09:57	59581	2009-05-18 at 09:57

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 9051512 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: 196035 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59581	Date Analyzed:	2009-05-18	Analyzed By:	ME
Prep Batch:	50859	Sample Preparation:	2009-05-18	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00660**		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0780	mg/L	1	0.100	78	40.1 - 136

Sample: 196036 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59581	Date Analyzed:	2009-05-18	Analyzed By:	ME
Prep Batch:	50859	Sample Preparation:	2009-05-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0939	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0767	mg/L	1	0.100	77	40.1 - 136

Sample: 196037 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59581	Date Analyzed:	2009-05-18	Analyzed By:	ME
Prep Batch:	50859	Sample Preparation:	2009-05-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0975	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0797	mg/L	1	0.100	80	40.1 - 136

Sample: 196038 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59581	Date Analyzed:	2009-05-18	Analyzed By:	ME
Prep Batch:	50859	Sample Preparation:	2009-05-18	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00900**		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	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0780	mg/L	1	0.100	78	40.1 - 136

Sample: 196039 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59581	Date Analyzed:	2009-05-18	Analyzed By:	ME
Prep Batch:	50859	Sample Preparation:	2009-05-18	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0105**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00680**		mg/L	1	0.00100
Xylene		**0.0126**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0974	mg/L	1	0.100	97	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0810	mg/L	1	0.100	81	40.1 - 136

Sample: 196040 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	59581	Date Analyzed:	2009-05-18	Analyzed By:	ME
Prep Batch:	50859	Sample Preparation:	2009-05-18	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00880**	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)		0.0916	mg/L	1	0.100	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0802	mg/L	1	0.100	80	40.1 - 136

Method Blank (1) QC Batch: 59581

QC Batch:	59581	Date Analyzed:	2009-05-18	Analyzed By:	ME
Prep Batch:	50859	QC Preparation:	2009-05-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0959	mg/L	1	0.100	96	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0700	mg/L	1	0.100	70	69.1 - 132.3

Laboratory Control Spike (LCS-1)

QC Batch: 59581 | Date Analyzed: 2009-05-18 | Analyzed By: ME
Prep Batch: 50859 | QC Preparation: 2009-05-18 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0866	mg/L	1	0.100	<0.00110	87	84 - 119.7
Toluene	0.0848	mg/L	1	0.100	<0.00100	85	84.9 - 118.2
Ethylbenzene	0.0884	mg/L	1	0.100	<0.00100	88	84.4 - 118.6
Xylene	0.258	mg/L	1	0.300	<0.00290	86	84.8 - 117.8

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0893	mg/L	1	0.100	<0.00110	89	84 - 119.7	3	20
Toluene	0.0872	mg/L	1	0.100	<0.00100	87	84.9 - 118.2	3	20
Ethylbenzene	0.0876	mg/L	1	0.100	<0.00100	88	84.4 - 118.6	1	20
Xylene	0.260	mg/L	1	0.300	<0.00290	87	84.8 - 117.8	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0962	0.0980	mg/L	1	0.100	96	98	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0744	0.0758	mg/L	1	0.100	74	76	59.7 - 136.3

Matrix Spike (MS-1) Spiked Sample: 196098

QC Batch: 59581 | Date Analyzed: 2009-05-18 | Analyzed By: ME
Prep Batch: 50859 | QC Preparation: 2009-05-18 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	5.61	mg/L	20	2.00	3.7419	93	77.5 - 121.1
Toluene	6.97	mg/L	20	2.00	4.9884	99	78.8 - 119.6
Ethylbenzene [1]	5.54	mg/L	20	2.00	4.131	70	77.9 - 120.5
Xylene	11.3	mg/L	20	6.00	5.8651	90	78 - 119.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	5.59	mg/L	20	2.00	3.7419	92	77.5 - 121.1	0	20
Toluene	6.98	mg/L	20	2.00	4.9884	100	78.8 - 119.6	0	20

continued . . .

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

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene [2]	5.47	mg/L	20	2.00	4.131	67	77.9 - 120.5	1	20
Xylene	11.3	mg/L	20	6.00	5.8651	90	78 - 119.4	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.08	1.98	mg/L	20	2	104	99	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	1.94	1.91	mg/L	20	2	97	96	59.4 - 127.3

Standard (CCV-1)

QC Batch: 59581 Date Analyzed: 2009-05-18 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0972	97	80 - 120	2009-05-18
Toluene		mg/L	0.100	0.0962	96	80 - 120	2009-05-18
Ethylbenzene		mg/L	0.100	0.0968	97	80 - 120	2009-05-18
Xylene		mg/L	0.300	0.290	97	80 - 120	2009-05-18

Standard (CCV-2)

QC Batch: 59581 Date Analyzed: 2009-05-18 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0946	95	80 - 120	2009-05-18
Toluene		mg/L	0.100	0.0912	91	80 - 120	2009-05-18
Ethylbenzene		mg/L	0.100	0.0907	91	80 - 120	2009-05-18
Xylene		mg/L	0.300	0.268	89	80 - 120	2009-05-18

Standard (CCV-3)

QC Batch: 59581 Date Analyzed: 2009-05-18 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0927	93	80 - 120	2009-05-18

continued ...

[2] MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.0961	96	80 - 120	2009-05-18
Ethylbenzene		mg/L	0.100	0.0969	97	80 - 120	2009-05-18
Xylene		mg/L	0.300	0.281	94	80 - 120	2009-05-18

LAB Order ID # 9051512

Page 1 of 1

TraceAnalysis, Inc.

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Address: (Street, City, Zip) 2057 Commerce
Fax #:
Contact Person: Ron Rounsaville
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM - Monument #17
Project Name: Mon #17
Project Location (including state): N.M
Sampler Signature: Rachel Frantz

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
196035	MW-4	3	VOA	X				X				X		5-14	908		X																	
036	MW-9														945																			
037	MW-17														1030																			
038	MW-2														1115																			
039	MW-1														1200																			
040	MW-3														1245																			

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
[signature]	Nova	5-15	8:00	[signature]	TA	5/15/09	0830	INST ____ °C OBS ____ °C COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ °C OBS ____ °C COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ °C OBS ____ °C COR ____ °C

LAB USE ONLY
Intact (Y) N
Headspace Y (N) NA
1°C
Log-in-Review ____

REMARKS:
All tests - Midland

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

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

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Carrier # ____

TRACEANALYSIS, INC.

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Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 11, 2009

Work Order: 9080702

Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
204954	MW-9	water	2009-08-06	10:15	2009-08-07
204955	MW-7	water	2009-08-06	11:00	2009-08-07
204956	MW-3	water	2009-08-06	11:45	2009-08-07
204957	MW-2	water	2009-08-06	12:30	2009-08-07
204958	MW-1	water	2009-08-06	13:15	2009-08-07

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

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

TraceAnalysis, Inc.



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

Standard Flags

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

Case Narrative

Samples for project TNM Monument #17 were received by TraceAnalysis, Inc. on 2009-08-07 and assigned to work order 9080702. Samples for work order 9080702 were received intact without headspace and at a temperature of 3.1 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	53127	2009-08-07 at 08:29	62272	2009-08-07 at 08:29
BTEX	S 8021B	53157	2009-08-10 at 10:19	62313	2009-08-10 at 10:19

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9080702 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: 204954 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62272	Date Analyzed:	2009-08-07	Analyzed By:	ME
Prep Batch:	53127	Sample Preparation:	2009-08-07	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0974	mg/L	1	0.100	97	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.116	mg/L	1	0.100	116	49.8 - 130.8

Sample: 204955 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62272	Date Analyzed:	2009-08-07	Analyzed By:	ME
Prep Batch:	53127	Sample Preparation:	2009-08-07	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0966	mg/L	1	0.100	97	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	49.8 - 130.8

Sample: 204956 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62272	Date Analyzed:	2009-08-07	Analyzed By:	ME
Prep Batch:	53127	Sample Preparation:	2009-08-07	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0981	mg/L	1	0.100	98	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.111	mg/L	1	0.100	111	49.8 - 130.8

Sample: 204957 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62313	Date Analyzed:	2009-08-10	Analyzed By:	ME
Prep Batch:	53157	Sample Preparation:	2009-08-10	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0162**	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)		0.0983	mg/L	1	0.100	98	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	49.8 - 130.8

Sample: 204958 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	62313	Date Analyzed:	2009-08-10	Analyzed By:	ME
Prep Batch:	53157	Sample Preparation:	2009-08-10	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00730**	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)		0.0960	mg/L	1	0.100	96	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0983	mg/L	1	0.100	98	49.8 - 130.8

Method Blank (1) QC Batch: 62272

QC Batch: 62272 Date Analyzed: 2009-08-07 Analyzed By: ME
Prep Batch: 53127 QC Preparation: 2009-08-07 Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0990	mg/L	1	0.100	99	85.4 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0994	mg/L	1	0.100	99	52.8 - 124.2

Method Blank (1) QC Batch: 62313

QC Batch: 62313 Date Analyzed: 2009-08-10 Analyzed By: ME
Prep Batch: 53157 QC Preparation: 2009-08-10 Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0982	mg/L	1	0.100	98	85.4 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0945	mg/L	1	0.100	94	52.8 - 124.2

Laboratory Control Spike (LCS-1)

QC Batch: 62272 Date Analyzed: 2009-08-07 Analyzed By: ME
Prep Batch: 53127 QC Preparation: 2009-08-07 Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene [1]	0.105	mg/L	1	0.100	<0.00110	105	74.3 - 123.4
Toluene	0.106	mg/L	1	0.100	<0.00100	106	70.1 - 126.2
Ethylbenzene	0.106	mg/L	1	0.100	<0.00100	106	68.6 - 124.7
Xylene	0.318	mg/L	1	0.300	<0.00290	106	64.8 - 127.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.104	mg/L	1	0.100	<0.00110	104	74.3 - 123.4	1	20
Toluene	0.105	mg/L	1	0.100	<0.00100	105	70.1 - 126.2	1	20
Ethylbenzene	0.108	mg/L	1	0.100	<0.00100	108	68.6 - 124.7	2	20
Xylene	0.327	mg/L	1	0.300	<0.00290	109	64.8 - 127.2	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)	0.0997	0.100	mg/L	1	0.100	100	100	84.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.103	0.104	mg/L	1	0.100	103	104	51.7 - 134.7

Laboratory Control Spike (LCS-1)

QC Batch: 62313 | Date Analyzed: 2009-08-10 | Analyzed By: ME
Prep Batch: 53157 | QC Preparation: 2009-08-10 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.106	mg/L	1	0.100	<0.00110	106	74.3 - 123.4
Toluene	0.107	mg/L	1	0.100	<0.00100	107	70.1 - 126.2
Ethylbenzene	0.107	mg/L	1	0.100	<0.00100	107	68.6 - 124.7
Xylene	0.320	mg/L	1	0.300	<0.00290	107	64.8 - 127.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.104	mg/L	1	0.100	<0.00110	104	74.3 - 123.4	2	20
Toluene	0.105	mg/L	1	0.100	<0.00100	105	70.1 - 126.2	2	20
Ethylbenzene	0.107	mg/L	1	0.100	<0.00100	107	68.6 - 124.7	0	20
Xylene	0.324	mg/L	1	0.300	<0.00290	108	64.8 - 127.2	1	20

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

[1] SPECIAL-MS/MSD were run but not reported due to analytes being out of range. Use LCS/LCSD to demonstrate method is under control.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.100	0.100	mg/L	1	0.100	100	100	84.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.104	0.102	mg/L	1	0.100	104	102	51.7 - 134.7

Matrix Spike (MS-1) Spiked Sample: 204965

QC Batch: 62313 | Date Analyzed: 2009-08-10 | Analyzed By: ME
Prep Batch: 53157 | QC Preparation: 2009-08-10 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.46	mg/L	10	1.00	1.3846	108	61 - 130
Toluene	1.11	mg/L	10	1.00	0.0423	107	69.2 - 121.4
Ethylbenzene	1.84	mg/L	10	1.00	0.7519	109	56.3 - 124.9
Xylene	3.70	mg/L	10	3.00	0.4735	108	60.2 - 122.9

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.47	mg/L	10	1.00	1.3846	108	61 - 130	0	20
Toluene	1.15	mg/L	10	1.00	0.0423	111	69.2 - 121.4	4	20
Ethylbenzene	1.89	mg/L	10	1.00	0.7519	114	56.3 - 124.9	3	20
Xylene	3.89	mg/L	10	3.00	0.4735	114	60.2 - 122.9	5	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.04	1.04	mg/L	10	1	104	104	85.6 - 108.1
4-Bromofluorobenzene (4-BFB)	1.18	1.16	mg/L	10	1	118	116	53.7 - 127.3

Standard (CCV-1)

QC Batch: 62272 | Date Analyzed: 2009-08-07 | Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.105	105	80 - 120	2009-08-07
Toluene		mg/L	0.100	0.106	106	80 - 120	2009-08-07
Ethylbenzene		mg/L	0.100	0.110	110	80 - 120	2009-08-07
Xylene		mg/L	0.300	0.332	111	80 - 120	2009-08-07

Standard (CCV-2)

QC Batch: 62272 Date Analyzed: 2009-08-07 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	80 - 120	2009-08-07
Toluene		mg/L	0.100	0.104	104	80 - 120	2009-08-07
Ethylbenzene		mg/L	0.100	0.105	105	80 - 120	2009-08-07
Xylene		mg/L	0.300	0.319	106	80 - 120	2009-08-07

Standard (CCV-1)

QC Batch: 62313 Date Analyzed: 2009-08-10 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.107	107	80 - 120	2009-08-10
Toluene		mg/L	0.100	0.109	109	80 - 120	2009-08-10
Ethylbenzene		mg/L	0.100	0.112	112	80 - 120	2009-08-10
Xylene		mg/L	0.300	0.340	113	80 - 120	2009-08-10

Standard (CCV-2)

QC Batch: 62313 Date Analyzed: 2009-08-10 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.107	107	80 - 120	2009-08-10
Toluene		mg/L	0.100	0.110	110	80 - 120	2009-08-10
Ethylbenzene	[2]	mg/L	0.100	0.123	123	80 - 120	2009-08-10
Xylene		mg/L	0.300	0.339	113	80 - 120	2009-08-10

[2] Ethylbenzene outside of control limits on CCV. CCV component average is 0.1090 which is within acceptable range. This is acceptable by Method 8000.

LAB Order ID # 9080702 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

Company Name: NOVA
Phone #: 520-7720
Address: (Street, City, Zip) 2057 Commerce
Fax #:
Contact Person: Ron Ponnsaville
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM - Monument #17
Project Name: Mon. #17
Project Location (including state): NM
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content						Turn Around Time if different from standard	Hold
204954	MW-9	3	VOA	X				X				X		8-6	1015		X																					
955	MW-7														1100																								
956	MW-3														1145																								
957	MW-2														1230																								
958	MW-1														1315																								

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
	NOVA	8-7-09	8:20		TRACE	8/7/09	8:20	3.1°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact (Y) / N
Headspace Y (N) / NA
3.1 °C
Log-in-Review

REMARKS:
All tests - Midland

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

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

Carrier #

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TRACEANALYSIS, INC.

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200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: November 16, 2009

Work Order: 9110610

Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
214176	MW-5	water	2009-11-05	10:00	2009-11-06
214177	MW-8	water	2009-11-05	11:00	2009-11-06
214178	MW-4	water	2009-11-05	12:00	2009-11-06
214179	MW-9	water	2009-11-05	13:00	2009-11-06
214180	MW-7	water	2009-11-05	14:00	2009-11-06
214181	MW-3	water	2009-11-05	15:00	2009-11-06
214182	MW-1	water	2009-11-05	16:00	2009-11-06
214183	MW-2	water	2009-11-05	17:00	2009-11-06
214184	Field Blank	water	2009-11-05	17:15	2009-11-06

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

This report consists of a total of 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

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

Standard Flags

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

Case Narrative

Samples for project TNM Monument #17 were received by TraceAnalysis, Inc. on 2009-11-06 and assigned to work order 9110610. Samples for work order 9110610 were received intact without headspace and at a temperature of -0.9 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	55656	2009-11-06 at 10:00	65147	2009-11-09 at 09:40
BTEX	S 8021B	55731	2009-11-11 at 10:00	65150	2009-11-11 at 10:55
PAH	S 8270C	55657	2009-11-09 at 15:00	65151	2009-11-10 at 08:59
PAH	S 8270C	55705	2009-11-11 at 15:11	65203	2009-11-11 at 15:11

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9110610 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: 214176 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65147	Date Analyzed:	2009-11-09	Analyzed By:	AG
Prep Batch:	55656	Sample Preparation:	2009-11-06	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0967	mg/L	1	0.100	97	68 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0742	mg/L	1	0.100	74	49.8 - 130.8

Sample: 214176 - MW-5

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	65151	Date Analyzed:	2009-11-10	Analyzed By:	MN
Prep Batch:	55657	Sample Preparation:	2009-11-09	Prepared By:	MN

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		<0.000184		mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200
Acenaphthylene		<0.000184		mg/L	0.922	0.000200
Acenaphthene		<0.000184		mg/L	0.922	0.000200
Dibenzofuran		**0.000404**		mg/L	0.922	0.000200
Fluorene		<0.000184		mg/L	0.922	0.000200
Anthracene		<0.000184		mg/L	0.922	0.000200
Phenanthrene		<0.000184		mg/L	0.922	0.000200
Fluoranthene		<0.000184		mg/L	0.922	0.000200
Pyrene		<0.000184		mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184		mg/L	0.922	0.000200
Chrysene		<0.000184		mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184		mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184		mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184		mg/L	0.922	0.000200

continued . . .

sample 214176 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Indeno(1,2,3-cd)pyrene		<0.000184		mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184		mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184		mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	[1]	0.000700	mg/L	0.922	0.0800	1	25.9 - 97.5
2-Fluorobiphenyl		0.0128	mg/L	0.922	0.0800	16	13.9 - 100
Terphenyl-d14		0.0519	mg/L	0.922	0.0800	65	37.7 - 114

Sample: 214177 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65147	Date Analyzed:	2009-11-09	Analyzed By:	AG
Prep Batch:	55656	Sample Preparation:	2009-11-06	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0966	mg/L	1	0.100	97	68 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0729	mg/L	1	0.100	73	49.8 - 130.8

Sample: 214177 - MW-8

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	65203	Date Analyzed:	2009-11-11	Analyzed By:	MN
Prep Batch:	55705	Sample Preparation:	2009-11-11	Prepared By:	MN

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		<0.000184		mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200

[1] 8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

continued ...

sample 214177 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0506	mg/L	0.922	0.0800	63	25.9 - 97.5
2-Fluorobiphenyl		0.0434	mg/L	0.922	0.0800	54	13.9 - 100
Terphenyl-d14		0.0560	mg/L	0.922	0.0800	70	37.7 - 114

Sample: 214178 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65147	Date Analyzed:	2009-11-09	Analyzed By:	AG
Prep Batch:	55656	Sample Preparation:	2009-11-06	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0984	mg/L	1	0.100	98	68 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0744	mg/L	1	0.100	74	49.8 - 130.8

Sample: 214178 - MW-4

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	65203	Date Analyzed:	2009-11-11	Analyzed By:	MN
Prep Batch:	55705	Sample Preparation:	2009-11-11	Prepared By:	MN

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0481	mg/L	0.922	0.0800	60	25.9 - 97.5
2-Fluorobiphenyl		0.0416	mg/L	0.922	0.0800	52	13.9 - 100
Terphenyl-d14		0.0583	mg/L	0.922	0.0800	73	37.7 - 114

Sample: 214179 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65147	Date Analyzed:	2009-11-09	Analyzed By:	AG
Prep Batch:	55656	Sample Preparation:	2009-11-06	Prepared By:	AG

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

continued . . .

sample 214179 continued ...

Parameter	Flag	Result	RL	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)		0.0980	mg/L	1	0.100	98	68 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0730	mg/L	1	0.100	73	49.8 - 130.8

Sample: 214179 - MW-9

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	65203	Date Analyzed:	2009-11-11	Analyzed By:	MN
Prep Batch:	55705	Sample Preparation:	2009-11-11	Prepared By:	MN

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0502	mg/L	0.926	0.0800	63	25.9 - 97.5
2-Fluorobiphenyl		0.0423	mg/L	0.926	0.0800	53	13.9 - 100
Terphenyl-d14		0.0572	mg/L	0.926	0.0800	72	37.7 - 114

Sample: 214180 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65150	Date Analyzed:	2009-11-11	Analyzed By:	AG
Prep Batch:	55731	Sample Preparation:	2009-11-11	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	68 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0922	mg/L	1	0.100	92	49.8 - 130.8

Sample: 214180 - MW-7

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	65203	Date Analyzed:	2009-11-11	Analyzed By:	MN
Prep Batch:	55705	Sample Preparation:	2009-11-11	Prepared By:	MN

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		<0.000184		mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184		mg/L	0.922	0.000200
Acenaphthylene		<0.000184		mg/L	0.922	0.000200
Acenaphthene		<0.000184		mg/L	0.922	0.000200
Dibenzofuran		**0.00220**		mg/L	0.922	0.000200
Fluorene		<0.000184		mg/L	0.922	0.000200
Anthracene		<0.000184		mg/L	0.922	0.000200
Phenanthrene		<0.000184		mg/L	0.922	0.000200
Fluoranthene		<0.000184		mg/L	0.922	0.000200
Pyrene		<0.000184		mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184		mg/L	0.922	0.000200
Chrysene		<0.000184		mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184		mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184		mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184		mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184		mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184		mg/L	0.922	0.000200

continued . . .

sample 214180 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000184		mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0438	mg/L	0.922	0.0800	55	25.9 - 97.5
2-Fluorobiphenyl		0.0373	mg/L	0.922	0.0800	47	13.9 - 100
Terphenyl-d14		0.0456	mg/L	0.922	0.0800	57	37.7 - 114

Sample: 214181 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65150	Date Analyzed:	2009-11-11	Analyzed By:	AG
Prep Batch:	55731	Sample Preparation:	2009-11-11	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0994	mg/L	1	0.100	99	68 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0864	mg/L	1	0.100	86	49.8 - 130.8

Sample: 214181 - MW-3

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	65203	Date Analyzed:	2009-11-11	Analyzed By:	MN
Prep Batch:	55705	Sample Preparation:	2009-11-11	Prepared By:	MN

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		<0.000185		mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185		mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185		mg/L	0.926	0.000200
Acenaphthylene		<0.000185		mg/L	0.926	0.000200
Acenaphthene		<0.000185		mg/L	0.926	0.000200

continued . . .

sample 214181 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Dibenzofuran		**0.000645**		mg/L	0.926	0.000200
Fluorene		<0.000185		mg/L	0.926	0.000200
Anthracene		<0.000185		mg/L	0.926	0.000200
Phenanthrene		<0.000185		mg/L	0.926	0.000200
Fluoranthene		<0.000185		mg/L	0.926	0.000200
Pyrene		<0.000185		mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185		mg/L	0.926	0.000200
Chrysene		<0.000185		mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185		mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185		mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185		mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185		mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185		mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185		mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0345	mg/L	0.926	0.0800	43	25.9 - 97.5
2-Fluorobiphenyl		0.0299	mg/L	0.926	0.0800	37	13.9 - 100
Terphenyl-d14		0.0439	mg/L	0.926	0.0800	55	37.7 - 114

Sample: 214182 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65150	Date Analyzed:	2009-11-11	Analyzed By:	AG
Prep Batch:	55731	Sample Preparation:	2009-11-11	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	68 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0883	mg/L	1	0.100	88	49.8 - 130.8

Sample: 214182 - MW-1

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	65203	Date Analyzed:	2009-11-11	Analyzed By:	MN
Prep Batch:	55705	Sample Preparation:	2009-11-11	Prepared By:	MN

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0364	mg/L	0.926	0.0800	46	25.9 - 97.5
2-Fluorobiphenyl		0.0310	mg/L	0.926	0.0800	39	13.9 - 100
Terphenyl-d14		0.0541	mg/L	0.926	0.0800	68	37.7 - 114

Sample: 214183 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	65150	Date Analyzed:	2009-11-11	Analyzed By:	AG
Prep Batch:	55731	Sample Preparation:	2009-11-11	Prepared By:	AG

Parameter	Flag	Result	RL Units	Dilution	RL
Benzene		**0.00370**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

continued . . .

sample 214183 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)		0.100	mg/L	1	0.100	100	68 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0869	mg/L	1	0.100	87	49.8 - 130.8

Sample: 214183 - MW-2

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	65203	Date Analyzed:	2009-11-11	Analyzed By:	MN
Prep Batch:	55705	Sample Preparation:	2009-11-11	Prepared By:	MN

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0578	mg/L	0.926	0.0800	72	25.9 - 97.5
2-Fluorobiphenyl		0.0451	mg/L	0.926	0.0800	56	13.9 - 100
Terphenyl-d14		0.0625	mg/L	0.926	0.0800	78	37.7 - 114

Sample: 214184 - Field Blank

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	65203	Date Analyzed:	2009-11-11	Analyzed By:	MN
Prep Batch:	55705	Sample Preparation:	2009-11-11	Prepared By:	MN

Parameter	Flag	Result	RL Result	Units	Dilution	RL
Naphthalene			<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene			<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene			<0.000184	mg/L	0.922	0.000200
Acenaphthylene			<0.000184	mg/L	0.922	0.000200
Acenaphthene			<0.000184	mg/L	0.922	0.000200
Dibenzofuran			**0.000541**	mg/L	0.922	0.000200
Fluorene			<0.000184	mg/L	0.922	0.000200
Anthracene			<0.000184	mg/L	0.922	0.000200
Phenanthrene			<0.000184	mg/L	0.922	0.000200
Fluoranthene			<0.000184	mg/L	0.922	0.000200
Pyrene			<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene			<0.000184	mg/L	0.922	0.000200
Chrysene			<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene			<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene			<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene			<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene			<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene			<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene			<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0501	mg/L	0.922	0.0800	63	25.9 - 97.5
2-Fluorobiphenyl		0.0395	mg/L	0.922	0.0800	49	13.9 - 100
Terphenyl-d14		0.0550	mg/L	0.922	0.0800	69	37.7 - 114

Method Blank (1) QC Batch: 65147

QC Batch:	65147	Date Analyzed:	2009-11-09	Analyzed By:	AG
Prep Batch:	55656	QC Preparation:	2009-11-06	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0994	mg/L	1	0.100	99	65.4 - 115.2
4-Bromofluorobenzene (4-BFB)		0.0876	mg/L	1	0.100	88	52.8 - 124.2

Method Blank (1) QC Batch: 65150

QC Batch: 65150 Date Analyzed: 2009-11-11 Analyzed By: AG
Prep Batch: 55731 QC Preparation: 2009-11-11 Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	65.4 - 115.2
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	52.8 - 124.2

Method Blank (1) QC Batch: 65151

QC Batch: 65151 Date Analyzed: 2009-11-10 Analyzed By: MN
Prep Batch: 55657 QC Preparation: 2009-11-09 Prepared By: MN

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000784	mg/L	0.0002
2-Methylnaphthalene		<0.0000747	mg/L	0.0002
1-Methylnaphthalene		<0.0000575	mg/L	0.0002
Acenaphthylene		<0.0000963	mg/L	0.0002
Acenaphthene		<0.0000617	mg/L	0.0002
Dibenzofuran		<0.0000952	mg/L	0.0002
Fluorene		<0.000134	mg/L	0.0002
Anthracene		<0.000441	mg/L	0.0002
Phenanthrene		<0.000435	mg/L	0.0002
Fluoranthene		<0.000476	mg/L	0.0002
Pyrene		<0.000590	mg/L	0.0002
Benzo(a)anthracene		<0.000118	mg/L	0.0002
Chrysene		<0.0000766	mg/L	0.0002
Benzo(b)fluoranthene		<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		<0.000141	mg/L	0.0002

continued ...

method blank continued . . .

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0564	mg/L	1	0.0800	70	25.9 - 97.5
2-Fluorobiphenyl		0.0492	mg/L	1	0.0800	62	13.9 - 100
Terphenyl-d14		0.0570	mg/L	1	0.0800	71	37.7 - 114

Method Blank (1) QC Batch: 65203

QC Batch:	65203	Date Analyzed:	2009-11-11	Analyzed By:	MN
Prep Batch:	55705	QC Preparation:	2009-11-11	Prepared By:	MN

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0500	mg/L	1	0.0800	62	25.9 - 97.5
2-Fluorobiphenyl		0.0405	mg/L	1	0.0800	51	13.9 - 100
Terphenyl-d14		0.0612	mg/L	1	0.0800	76	37.7 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 65147 | Date Analyzed: 2009-11-09 | Analyzed By: AG
Prep Batch: 55656 | QC Preparation: 2009-11-06 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0905	mg/L	1	0.100	<0.00110	90	74.3 - 123.4
Toluene	0.0906	mg/L	1	0.100	<0.00100	91	70.1 - 126.2
Ethylbenzene	0.0888	mg/L	1	0.100	<0.00100	89	68.6 - 124.7
Xylene	0.265	mg/L	1	0.300	<0.00290	88	64.8 - 127.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0897	mg/L	1	0.100	<0.00110	90	74.3 - 123.4	1	20
Toluene	0.0901	mg/L	1	0.100	<0.00100	90	70.1 - 126.2	1	20
Ethylbenzene	0.0897	mg/L	1	0.100	<0.00100	90	68.6 - 124.7	1	20
Xylene	0.268	mg/L	1	0.300	<0.00290	89	64.8 - 127.2	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0975	0.0971	mg/L	1	0.100	98	97	61.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.0884	0.0874	mg/L	1	0.100	88	87	51.7 - 134.7

Laboratory Control Spike (LCS-1)

QC Batch: 65150 | Date Analyzed: 2009-11-11 | Analyzed By: AG
Prep Batch: 55731 | QC Preparation: 2009-11-11 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.105	mg/L	1	0.100	<0.00110	105	74.3 - 123.4
Toluene	0.106	mg/L	1	0.100	<0.00100	106	70.1 - 126.2
Ethylbenzene	0.105	mg/L	1	0.100	<0.00100	105	68.6 - 124.7
Xylene	0.316	mg/L	1	0.300	<0.00290	105	64.8 - 127.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.106	mg/L	1	0.100	<0.00110	106	74.3 - 123.4	1	20
Toluene	0.107	mg/L	1	0.100	<0.00100	107	70.1 - 126.2	1	20
Ethylbenzene	0.107	mg/L	1	0.100	<0.00100	107	68.6 - 124.7	2	20
Xylene	0.323	mg/L	1	0.300	<0.00290	108	64.8 - 127.2	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)	0.100	0.101	mg/L	1	0.100	100	101	61.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.104	0.106	mg/L	1	0.100	104	106	51.7 - 134.7

Laboratory Control Spike (LCS-1)

QC Batch: 65151 | Date Analyzed: 2009-11-10 | Analyzed By: MN
Prep Batch: 55657 | QC Preparation: 2009-11-09 | Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0386	mg/L	1	0.0800	<0.0000784	48	22.2 - 87.9
2-Methylnaphthalene	0.0412	mg/L	1	0.0800	<0.0000747	52	23.3 - 86.1
1-Methylnaphthalene	0.0431	mg/L	1	0.0800	<0.0000575	54	24.6 - 87.8
Acenaphthylene	0.0457	mg/L	1	0.0800	<0.0000963	57	27.4 - 114
Acenaphthene	0.0460	mg/L	1	0.0800	<0.0000617	58	27.2 - 111
Dibenzofuran	0.0445	mg/L	1	0.0800	<0.0000952	56	27.3 - 100
Fluorene	0.0508	mg/L	1	0.0800	<0.000134	64	31.5 - 122
Anthracene	0.0485	mg/L	1	0.0800	<0.000441	61	32.4 - 115
Phenanthrene	0.0484	mg/L	1	0.0800	<0.000435	60	34.2 - 111
Fluoranthene	0.0551	mg/L	1	0.0800	<0.000476	69	40.1 - 114
Pyrene	0.0474	mg/L	1	0.0800	<0.000590	59	39.2 - 124
Benzo(a)anthracene	0.0469	mg/L	1	0.0800	<0.000118	59	39.4 - 114
Chrysene	0.0474	mg/L	1	0.0800	<0.0000766	59	38.2 - 116
Benzo(b)fluoranthene	0.0466	mg/L	1	0.0800	<0.000146	58	34.5 - 118
Benzo(k)fluoranthene	0.0672	mg/L	1	0.0800	<0.000141	84	38.7 - 133
Benzo(a)pyrene	0.0671	mg/L	1	0.0800	<0.000132	84	38 - 134
Indeno(1,2,3-cd)pyrene	0.0533	mg/L	1	0.0800	<0.0000702	67	34.6 - 124
Dibenzo(a,h)anthracene	0.0536	mg/L	1	0.0800	<0.0000534	67	33.9 - 120
Benzo(g,h,i)perylene	0.0513	mg/L	1	0.0800	<0.0000473	64	33.8 - 138

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0379	mg/L	1	0.0800	<0.0000784	47	22.2 - 87.9	2	20
2-Methylnaphthalene	0.0414	mg/L	1	0.0800	<0.0000747	52	23.3 - 86.1	0	20
1-Methylnaphthalene	0.0434	mg/L	1	0.0800	<0.0000575	54	24.6 - 87.8	1	20
Acenaphthylene	0.0445	mg/L	1	0.0800	<0.0000963	56	27.4 - 114	3	20
Acenaphthene	0.0444	mg/L	1	0.0800	<0.0000617	56	27.2 - 111	4	20
Dibenzofuran	0.0426	mg/L	1	0.0800	<0.0000952	53	27.3 - 100	4	20
Fluorene	0.0483	mg/L	1	0.0800	<0.000134	60	31.5 - 122	5	20
Anthracene	0.0461	mg/L	1	0.0800	<0.000441	58	32.4 - 115	5	20
Phenanthrene	0.0450	mg/L	1	0.0800	<0.000435	56	34.2 - 111	7	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoranthene	0.0510	mg/L	1	0.0800	<0.000476	64	40.1 - 114	8	20
Pyrene	0.0458	mg/L	1	0.0800	<0.000590	57	39.2 - 124	3	20
Benzo(a)anthracene	0.0444	mg/L	1	0.0800	<0.000118	56	39.4 - 114	6	20
Chrysene	0.0454	mg/L	1	0.0800	<0.0000766	57	38.2 - 116	4	20
Benzo(b)fluoranthene	0.0534	mg/L	1	0.0800	<0.000146	67	34.5 - 118	14	20
Benzo(k)fluoranthene	0.0679	mg/L	1	0.0800	<0.000141	85	38.7 - 133	1	20
Benzo(a)pyrene	0.0646	mg/L	1	0.0800	<0.000132	81	38 - 134	4	20
Indeno(1,2,3-cd)pyrene	0.0531	mg/L	1	0.0800	<0.0000702	66	34.6 - 124	0	20
Dibenzo(a,h)anthracene	0.0524	mg/L	1	0.0800	<0.0000534	66	33.9 - 120	2	20
Benzo(g,h,i)perylene	0.0543	mg/L	1	0.0800	<0.0000473	68	33.8 - 138	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
Nitrobenzene-d5	0.0450	0.0473	mg/L	1	0.0800	56	59	25.9 - 97.5
2-Fluorobiphenyl	0.0425	0.0406	mg/L	1	0.0800	53	51	13.9 - 100
Terphenyl-d14	0.0484	0.0458	mg/L	1	0.0800	60	57	37.7 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 65203 | Date Analyzed: 2009-11-11 | Analyzed By: MN
Prep Batch: 55705 | QC Preparation: 2009-11-11 | Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0458	mg/L	1	0.0800	<0.0000784	57	22.2 - 87.9
2-Methylnaphthalene	0.0495	mg/L	1	0.0800	<0.0000747	62	23.3 - 86.1
1-Methylnaphthalene	0.0506	mg/L	1	0.0800	<0.0000575	63	24.6 - 87.8
Acenaphthylene	0.0536	mg/L	1	0.0800	<0.0000963	67	27.4 - 114
Acenaphthene	0.0539	mg/L	1	0.0800	<0.0000617	67	27.2 - 111
Dibenzofuran	0.0487	mg/L	1	0.0800	<0.0000952	61	27.3 - 100
Fluorene	0.0603	mg/L	1	0.0800	<0.000134	75	31.5 - 122
Anthracene	0.0574	mg/L	1	0.0800	<0.000441	72	32.4 - 115
Phenanthrene	0.0571	mg/L	1	0.0800	<0.000435	71	34.2 - 111
Fluoranthene	0.0651	mg/L	1	0.0800	<0.000476	81	40.1 - 114
Pyrene	0.0612	mg/L	1	0.0800	<0.000590	76	39.2 - 124
Benzo(a)anthracene	0.0596	mg/L	1	0.0800	<0.000118	74	39.4 - 114
Chrysene	0.0697	mg/L	1	0.0800	<0.0000766	87	38.2 - 116
Benzo(b)fluoranthene	0.0611	mg/L	1	0.0800	<0.000146	76	34.5 - 118
Benzo(k)fluoranthene	0.0887	mg/L	1	0.0800	<0.000141	111	38.7 - 133
Benzo(a)pyrene	0.0884	mg/L	1	0.0800	<0.000132	110	38 - 134
Indeno(1,2,3-cd)pyrene	0.0700	mg/L	1	0.0800	<0.0000702	88	34.6 - 124
Dibenzo(a,h)anthracene	0.0712	mg/L	1	0.0800	<0.0000534	89	33.9 - 120

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzo(g,h,i)perylene	0.0727	mg/L	1	0.0800	<0.0000473	91	33.8 - 138

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0455	mg/L	1	0.0800	<0.0000784	57	22.2 - 87.9	1	20
2-Methylnaphthalene	0.0491	mg/L	1	0.0800	<0.0000747	61	23.3 - 86.1	1	20
1-Methylnaphthalene	0.0501	mg/L	1	0.0800	<0.0000575	63	24.6 - 87.8	1	20
Acenaphthylene	0.0521	mg/L	1	0.0800	<0.0000963	65	27.4 - 114	3	20
Acenaphthene	0.0514	mg/L	1	0.0800	<0.0000617	64	27.2 - 111	5	20
Dibenzofuran	0.0475	mg/L	1	0.0800	<0.0000952	59	27.3 - 100	2	20
Fluorene	0.0586	mg/L	1	0.0800	<0.000134	73	31.5 - 122	3	20
Anthracene	0.0600	mg/L	1	0.0800	<0.000441	75	32.4 - 115	4	20
Phenanthrene	0.0593	mg/L	1	0.0800	<0.000435	74	34.2 - 111	4	20
Fluoranthene	0.0686	mg/L	1	0.0800	<0.000476	86	40.1 - 114	5	20
Pyrene	0.0589	mg/L	1	0.0800	<0.000590	74	39.2 - 124	4	20
Benzo(a)anthracene	0.0580	mg/L	1	0.0800	<0.000118	72	39.4 - 114	3	20
Chrysene	0.0668	mg/L	1	0.0800	<0.0000766	84	38.2 - 116	4	20
Benzo(b)fluoranthene	0.0676	mg/L	1	0.0800	<0.000146	84	34.5 - 118	10	20
Benzo(k)fluoranthene	0.0866	mg/L	1	0.0800	<0.000141	108	38.7 - 133	2	20
Benzo(a)pyrene	0.0874	mg/L	1	0.0800	<0.000132	109	38 - 134	1	20
Indeno(1,2,3-cd)pyrene	0.0674	mg/L	1	0.0800	<0.0000702	84	34.6 - 124	4	20
Dibenzo(a,h)anthracene	0.0665	mg/L	1	0.0800	<0.0000534	83	33.9 - 120	7	20
Benzo(g,h,i)perylene	0.0662	mg/L	1	0.0800	<0.0000473	83	33.8 - 138	9	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	0.0479	0.0475	mg/L	1	0.0800	60	59	25.9 - 97.5
2-Fluorobiphenyl	0.0442	0.0423	mg/L	1	0.0800	55	53	13.9 - 100
Terphenyl-d14	0.0562	0.0563	mg/L	1	0.0800	70	70	37.7 - 114

Matrix Spike (MS-1) Spiked Sample: 214091

QC Batch: 65147 | Date Analyzed: 2009-11-09 | Analyzed By: AG
Prep Batch: 55656 | QC Preparation: 2009-11-06 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0870	mg/L	1	0.100	<0.00110	87	61 - 130
Toluene	0.0865	mg/L	1	0.100	<0.00100	86	69.2 - 121.4
Ethylbenzene	0.0850	mg/L	1	0.100	<0.00100	85	56.3 - 124.9

continued ...

matrix spikes continued . . .

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Xylene	0.250	mg/L	1	0.300	<0.00290	83	60.2 - 122.9

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0871	mg/L	1	0.100	<0.00110	87	61 - 130	0	20
Toluene	0.0867	mg/L	1	0.100	<0.00100	87	69.2 - 121.4	0	20
Ethylbenzene	0.0856	mg/L	1	0.100	<0.00100	86	56.3 - 124.9	1	20
Xylene	0.253	mg/L	1	0.300	<0.00290	84	60.2 - 122.9	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0968	0.0970	mg/L	1	0.1	97	97	61.6 - 108.1
4-Bromofluorobenzene (4-BFB)	0.0763	0.0769	mg/L	1	0.1	76	77	53.7 - 127.3

Matrix Spike (MS-1) Spiked Sample: 214413

QC Batch: 65150 | Date Analyzed: 2009-11-11 | Analyzed By: AG
Prep Batch: 55731 | QC Preparation: 2009-11-11 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0855	mg/L	1	0.100	<0.00110	86	61 - 130
Toluene	0.0863	mg/L	1	0.100	<0.00100	86	69.2 - 121.4
Ethylbenzene	0.0870	mg/L	1	0.100	<0.00100	87	56.3 - 124.9
Xylene	0.254	mg/L	1	0.300	<0.00290	85	60.2 - 122.9

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0965	mg/L	1	0.100	<0.00110	96	61 - 130	12	20
Toluene	0.0976	mg/L	1	0.100	<0.00100	98	69.2 - 121.4	12	20
Ethylbenzene	0.0982	mg/L	1	0.100	<0.00100	98	56.3 - 124.9	12	20
Xylene	0.286	mg/L	1	0.300	<0.00290	95	60.2 - 122.9	12	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)	0.0979	0.0991	mg/L	1	0.1	98	99	61.6 - 108.1
4-Bromofluorobenzene (4-BFB)	0.0816	0.0785	mg/L	1	0.1	82	78	53.7 - 127.3

Standard (CCV-2)

QC Batch: 65147 | Date Analyzed: 2009-11-09 | 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	0.0877	88	80 - 120	2009-11-09
Toluene		mg/L	0.100	0.0884	88	80 - 120	2009-11-09
Ethylbenzene		mg/L	0.100	0.0879	88	80 - 120	2009-11-09
Xylene		mg/L	0.300	0.258	86	80 - 120	2009-11-09

Standard (CCV-3)

QC Batch: 65147 | Date Analyzed: 2009-11-09 | 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	0.0866	87	80 - 120	2009-11-09
Toluene		mg/L	0.100	0.0870	87	80 - 120	2009-11-09
Ethylbenzene		mg/L	0.100	0.0859	86	80 - 120	2009-11-09
Xylene		mg/L	0.300	0.251	84	80 - 120	2009-11-09

Standard (CCV-1)

QC Batch: 65150 | Date Analyzed: 2009-11-11 | 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	0.0989	99	80 - 120	2009-11-11
Toluene		mg/L	0.100	0.100	100	80 - 120	2009-11-11
Ethylbenzene		mg/L	0.100	0.101	101	80 - 120	2009-11-11
Xylene		mg/L	0.300	0.302	101	80 - 120	2009-11-11

Standard (CCV-2)

QC Batch: 65150 | Date Analyzed: 2009-11-11 | 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	0.0982	98	80 - 120	2009-11-11
Toluene		mg/L	0.100	0.0993	99	80 - 120	2009-11-11
Ethylbenzene		mg/L	0.100	0.0993	99	80 - 120	2009-11-11

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Xylene		mg/L	0.300	0.292	97	80 - 120	2009-11-11

Standard (CCV-2)

QC Batch: 65151 Date Analyzed: 2009-11-10 Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	53.2	89	80 - 120	2009-11-10
2-Methylnaphthalene		mg/L	60.0	60.4	101	80 - 120	2009-11-10
1-Methylnaphthalene		mg/L	60.0	59.9	100	80 - 120	2009-11-10
Acenaphthylene		mg/L	60.0	52.2	87	80 - 120	2009-11-10
Acenaphthene		mg/L	60.0	52.3	87	80 - 120	2009-11-10
Dibenzofuran		mg/L	60.0	53.7	90	80 - 120	2009-11-10
Fluorene		mg/L	60.0	56.1	94	80 - 120	2009-11-10
Anthracene		mg/L	60.0	55.2	92	80 - 120	2009-11-10
Phenanthrene		mg/L	60.0	53.4	89	80 - 120	2009-11-10
Fluoranthene		mg/L	60.0	55.2	92	80 - 120	2009-11-10
Pyrene		mg/L	60.0	49.8	83	80 - 120	2009-11-10
Benzo(a)anthracene		mg/L	60.0	51.1	85	80 - 120	2009-11-10
Chrysene		mg/L	60.0	52.8	88	80 - 120	2009-11-10
Benzo(b)fluoranthene		mg/L	60.0	55.1	92	80 - 120	2009-11-10
Benzo(k)fluoranthene		mg/L	60.0	69.8	116	80 - 120	2009-11-10
Benzo(a)pyrene		mg/L	60.0	64.0	107	80 - 120	2009-11-10
Indeno(1,2,3-cd)pyrene		mg/L	60.0	54.2	90	80 - 120	2009-11-10
Dibenzo(a,h)anthracene		mg/L	60.0	54.5	91	80 - 120	2009-11-10
Benzo(g,h,i)perylene		mg/L	60.0	51.4	86	80 - 120	2009-11-10

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		59.4	mg/L	1	60.0	99	80 - 120
2-Fluorobiphenyl		50.1	mg/L	1	60.0	84	80 - 120
Terphenyl-d14		47.7	mg/L	1	60.0	80	80 - 120

Standard (CCV-1)

QC Batch: 65203 Date Analyzed: 2009-11-11 Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	53.8	90	80 - 120	2009-11-11
2-Methylnaphthalene		mg/L	60.0	59.5	99	80 - 120	2009-11-11
1-Methylnaphthalene		mg/L	60.0	59.8	100	80 - 120	2009-11-11
Acenaphthylene		mg/L	60.0	51.6	86	80 - 120	2009-11-11
Acenaphthene		mg/L	60.0	51.5	86	80 - 120	2009-11-11
Dibenzofuran		mg/L	60.0	52.7	88	80 - 120	2009-11-11
Fluorene		mg/L	60.0	55.8	93	80 - 120	2009-11-11
Anthracene		mg/L	60.0	56.2	94	80 - 120	2009-11-11
Phenanthrene		mg/L	60.0	53.8	90	80 - 120	2009-11-11
Fluoranthene		mg/L	60.0	55.7	93	80 - 120	2009-11-11
Pyrene		mg/L	60.0	50.4	84	80 - 120	2009-11-11
Benzo(a)anthracene		mg/L	60.0	51.0	85	80 - 120	2009-11-11
Chrysene		mg/L	60.0	52.7	88	80 - 120	2009-11-11
Benzo(b)fluoranthene		mg/L	60.0	56.1	94	80 - 120	2009-11-11
Benzo(k)fluoranthene		mg/L	60.0	64.9	108	80 - 120	2009-11-11
Benzo(a)pyrene		mg/L	60.0	66.4	111	80 - 120	2009-11-11
Indeno(1,2,3-cd)pyrene		mg/L	60.0	52.4	87	80 - 120	2009-11-11
Dibenzo(a,h)anthracene		mg/L	60.0	53.2	89	80 - 120	2009-11-11
Benzo(g,h,i)perylene		mg/L	60.0	49.8	83	80 - 120	2009-11-11

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		59.6	mg/L	1	60.0	99	80 - 120
2-Fluorobiphenyl		49.0	mg/L	1	60.0	82	80 - 120
Terphenyl-d14		47.7	mg/L	1	60.0	80	80 - 120

Standard (CCV-2)

QC Batch: 65203 | Date Analyzed: 2009-11-11 | Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	53.8	90	80 - 120	2009-11-11
2-Methylnaphthalene		mg/L	60.0	60.0	100	80 - 120	2009-11-11
1-Methylnaphthalene		mg/L	60.0	60.2	100	80 - 120	2009-11-11
Acenaphthylene		mg/L	60.0	52.1	87	80 - 120	2009-11-11
Acenaphthene		mg/L	60.0	51.9	86	80 - 120	2009-11-11
Dibenzofuran		mg/L	60.0	54.4	91	80 - 120	2009-11-11
Fluorene		mg/L	60.0	56.5	94	80 - 120	2009-11-11
Anthracene		mg/L	60.0	56.5	94	80 - 120	2009-11-11
Phenanthrene		mg/L	60.0	54.2	90	80 - 120	2009-11-11
Fluoranthene		mg/L	60.0	56.5	94	80 - 120	2009-11-11
Pyrene		mg/L	60.0	51.6	86	80 - 120	2009-11-11

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzo(a)anthracene		mg/L	60.0	51.2	85	80 - 120	2009-11-11
Chrysene		mg/L	60.0	53.0	88	80 - 120	2009-11-11
Benzo(b)fluoranthene		mg/L	60.0	49.6	83	80 - 120	2009-11-11
Benzo(k)fluoranthene		mg/L	60.0	59.3	99	80 - 120	2009-11-11
Benzo(a)pyrene		mg/L	60.0	66.4	111	80 - 120	2009-11-11
Indeno(1,2,3-cd)pyrene		mg/L	60.0	52.2	87	80 - 120	2009-11-11
Dibenzo(a,h)anthracene		mg/L	60.0	54.1	90	80 - 120	2009-11-11
Benzo(g,h,i)perylene		mg/L	60.0	50.5	84	80 - 120	2009-11-11

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		58.6	mg/L	1	60.0	98	80 - 120
2-Fluorobiphenyl		50.0	mg/L	1	60.0	83	80 - 120
Terphenyl-d14		48.1	mg/L	1	60.0	80	80 - 120

LAB Order ID # 9110610

Page 1 of 1

TraceAnalysis, Inc.

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1 (800) 378-1296

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Fax (432) 689-6313

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

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

Company Name: Nova
Phone #: 520-7720
Address: (Street, City, Zip) 2057 Commerce
Fax #:
Contact Person: Ron R.
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM-Monument #17
Project Name: Monument #17
Project Location (including state): N.M.
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
214176	MW-5	4		X				X				X		11-5	1006
177	MW-8														1100
178	MW-4														1200
179	MW-9														1300
180	MW-7														1400
181	MW-3														1500
182	MW-1														1600
183	MW-2														1700
184	Field Blank	1													1715

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
	X			X																				

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Nova	11-6	8:00		Trace	11/6/09	8:15	INST ___ OBS -0.9 °C COR ___ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ___ OBS ___ °C COR ___ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ___ OBS ___ °C COR ___ °C

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

REMARKS:
Lubbock - PAH
Midland - Btex

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

Carrier # Carry-in

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

ORIGINAL COPY

LAB Order ID # 9110610

Page 1 of 1

TraceAnalysis, Inc.

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Tel (972) 242-7750

Company Name: Nova
Phone #: 520-7720
Address: (Street, City, Zip) 2057 Commerce
Fax #:
Contact Person: Ron R.
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM-Monument #17
Project Name: Monument #17
Project Location (including state): N.M.
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	PAH 8270 / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard	Hold
214176	MW-5	4		X				X				X		11-5	1000		X			X																
177	MW-8														1100																					
178	MW-4														1200																					
179	MW-9														1300																					
180	MW-7														1400																					
181	MW-3														1500																					
182	MW-1														1600																					
183	MW-2														1700																					
184	Field Blank	1													1715																					

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST / OBS / COR
	Nova	11-6	8:00		Trace	11/6/09	8:15	OBS 0.9 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST / OBS / COR
	Trace	11/6/09	17:00					
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST 4.1 / OBS 0.4 °C / COR 4.5 °C
				Kimberly Bouldin		11/7/09	11:15	

LAB USE ONLY

Intact Y / N
Headspace Y / N / NA
Log-in-Review

REMARKS:
Lubbock - PAH
Midland - Btex

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

51

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Carrier # Caravan Lone Star 7574090

TRACEANALYSIS, INC.

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

Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 12, 2010

Work Order: 10020528

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
221731	MW-9	water	2010-02-05	10:00	2010-02-05
221732	MW-7	water	2010-02-05	10:45	2010-02-05
221733	MW-3	water	2010-02-05	11:30	2010-02-05
221734	MW-1	water	2010-02-05	12:15	2010-02-05
221735	MW-2	water	2010-02-05	13:00	2010-02-05

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

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.



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

Standard Flags

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

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2010-02-05 and assigned to work order 10020528. Samples for work order 10020528 were received intact without headspace and at a temperature of 18.7 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	57719	2010-02-11 at 08:00	67479	2010-02-11 at 01:47

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 10020528 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: 221731 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	67479	Date Analyzed:	2010-02-11	Analyzed By:	AG
Prep Batch:	57719	Sample Preparation:	2010-02-11	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)		0.108	mg/L	1	0.100	108	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0976	mg/L	1	0.100	98	57.1 - 118.8

Sample: 221732 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	67479	Date Analyzed:	2010-02-11	Analyzed By:	AG
Prep Batch:	57719	Sample Preparation:	2010-02-11	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)		0.110	mg/L	1	0.100	110	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	57.1 - 118.8

Sample: 221733 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	67479	Date Analyzed:	2010-02-11	Analyzed By:	AG
Prep Batch:	57719	Sample Preparation:	2010-02-11	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00300**	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)		0.112	mg/L	1	0.100	112	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	57.1 - 118.8

Sample: 221734 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	67479	Date Analyzed:	2010-02-11	Analyzed By:	AG
Prep Batch:	57719	Sample Preparation:	2010-02-11	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0929	mg/L	1	0.100	93	57.1 - 118.8

Sample: 221735 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	67479	Date Analyzed:	2010-02-11	Analyzed By:	AG
Prep Batch:	57719	Sample Preparation:	2010-02-11	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)		0.109	mg/L	1	0.100	109	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	57.1 - 118.8

Method Blank (1) QC Batch: 67479

QC Batch: 67479 Date Analyzed: 2010-02-11 Analyzed By: AG
Prep Batch: 57719 QC Preparation: 2010-02-11 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0974	mg/L	1	0.100	97	73.6 - 126.6
4-Bromofluorobenzene (4-BFB)		0.0889	mg/L	1	0.100	89	70.6 - 117.5

Laboratory Control Spike (LCS-1)

QC Batch: 67479 Date Analyzed: 2010-02-11 Analyzed By: AG
Prep Batch: 57719 QC Preparation: 2010-02-11 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000300	102	79.4 - 112.4
Toluene	0.103	mg/L	1	0.100	<0.000200	103	79.3 - 110
Ethylbenzene	0.103	mg/L	1	0.100	<0.000200	103	73.8 - 113.1
Xylene	0.307	mg/L	1	0.300	<0.000900	102	73.9 - 113.6

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.100	mg/L	1	0.100	<0.000300	100	79.4 - 112.4	2	20
Toluene	0.100	mg/L	1	0.100	<0.000200	100	79.3 - 110	3	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.000200	101	73.8 - 113.1	2	20
Xylene	0.301	mg/L	1	0.300	<0.000900	100	73.9 - 113.6	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)	0.0977	0.101	mg/L	1	0.100	98	101	76.2 - 129.6
4-Bromofluorobenzene (4-BFB)	0.102	0.104	mg/L	1	0.100	102	104	77.9 - 119.8

Matrix Spike (MS-1) Spiked Sample: 221716

QC Batch: 67479 | Date Analyzed: 2010-02-11 | Analyzed By: AG
Prep Batch: 57719 | QC Preparation: 2010-02-11 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.976	mg/L	5	0.500	0.5102	93	77.3 - 117.4
Toluene	1.45	mg/L	5	0.500	0.9962	91	75 - 111.8
Ethylbenzene	0.907	mg/L	5	0.500	0.4329	95	78.8 - 106.6
Xylene	2.70	mg/L	5	1.50	1.2791	95	68.9 - 114

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.993	mg/L	5	0.500	0.5102	96	77.3 - 117.4	2	20
Toluene	1.48	mg/L	5	0.500	0.9962	97	75 - 111.8	2	20
Ethylbenzene	0.922	mg/L	5	0.500	0.4329	98	78.8 - 106.6	2	20
Xylene	2.74	mg/L	5	1.50	1.2791	97	68.9 - 114	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)		0.534	0.507	mg/L	5	0.5	107	101	76.3 - 129.8
4-Bromofluorobenzene (4-BFB)	[1]	0.570	0.541	mg/L	5	0.5	114	108	75.2 - 112.8

Standard (CCV-1)

QC Batch: 67479 | Date Analyzed: 2010-02-11 | 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	80 - 120	2010-02-11
Toluene		mg/L	0.100	0.0988	99	80 - 120	2010-02-11
Ethylbenzene		mg/L	0.100	0.0987	99	80 - 120	2010-02-11
Xylene		mg/L	0.300	0.296	99	80 - 120	2010-02-11

[1] High surrogate recovery due to peak interference.

Standard (CCV-2)

QC Batch: 67479 | Date Analyzed: 2010-02-11 | 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	0.103	103	80 - 120	2010-02-11
Toluene		mg/L	0.100	0.103	103	80 - 120	2010-02-11
Ethylbenzene		mg/L	0.100	0.104	104	80 - 120	2010-02-11
Xylene		mg/L	0.300	0.312	104	80 - 120	2010-02-11

Standard (CCV-3)

QC Batch: 67479 | Date Analyzed: 2010-02-11 | 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	0.0988	99	80 - 120	2010-02-11
Toluene		mg/L	0.100	0.0984	98	80 - 120	2010-02-11
Ethylbenzene		mg/L	0.100	0.0981	98	80 - 120	2010-02-11
Xylene		mg/L	0.300	0.294	98	80 - 120	2010-02-11

LAB Order ID # 100205 28

Page 1 of 1

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1 (888) 588-3443

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

Company Name: Nova — **Phone #:** 520-7720

Address: (Street, City, Zip) 2057 Commerce — **Fax #:**

Contact Person: Ron K. — **E-mail:**

Invoice to: (If different from above) Plains

Project #: TNM- Monument #17 — **Project Name:** Mon. #17

Project Location (including state): N.M. — **Sampler Signature:**

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC						Turn Around Time if different from standard	Hold
221731	MW-9	3	vgas	X				X				X		10' 2.5	1000		X																							
732	MW-7														1045																										
733	MW-3														1130																										
734	MW-1														1215																										
735	MW-2														1300																										

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST / OBS / COR
	Nova	2-5-10	1500		Trace	2/5/10	15:00	INST 18.7 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST / OBS / COR
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST / OBS / COR

LAB USE ONLY

Intact (Y) / N

Headspace Y / (N) NA

Log-in-Review

REMARKS:

Straight From Field

* All tests - Midland

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

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

Carrier # Carry-in

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TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 6, 2010

Work Order: 10050424

Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
230571	MW-4	water	2010-05-03	12:00	2010-05-04
230572	MW-9	water	2010-05-03	12:30	2010-05-04
230573	MW-7	water	2010-05-03	13:00	2010-05-04
230574	MW-1	water	2010-05-03	13:30	2010-05-04
230575	MW-2	water	2010-05-03	14:00	2010-05-04
230576	MW-3	water	2010-05-03	14:30	2010-05-04

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

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

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

Standard Flags

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

Case Narrative

Samples for project TNM Monument #17 were received by TraceAnalysis, Inc. on 2010-05-04 and assigned to work order 10050424. Samples for work order 10050424 were received intact at a temperature of 3.1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	59699	2010-05-05 at 12:00	69741	2010-05-05 at 13:44

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 10050424 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: 230571 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	69741	Date Analyzed:	2010-05-05	Analyzed By:	AG
Prep Batch:	59699	Sample Preparation:	2010-05-05	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)		0.0854	mg/L	1	0.100	85	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0728	mg/L	1	0.100	73	51.1 - 121.7

Sample: 230572 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	69741	Date Analyzed:	2010-05-05	Analyzed By:	AG
Prep Batch:	59699	Sample Preparation:	2010-05-05	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)		0.0741	mg/L	1	0.100	74	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0597	mg/L	1	0.100	60	51.1 - 121.7

Sample: 230573 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	69741	Date Analyzed:	2010-05-05	Analyzed By:	AG
Prep Batch:	59699	Sample Preparation:	2010-05-05	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)		0.0856	mg/L	1	0.100	86	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0742	mg/L	1	0.100	74	51.1 - 121.7

Sample: 230574 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	69741	Date Analyzed:	2010-05-05	Analyzed By:	AG
Prep Batch:	59699	Sample Preparation:	2010-05-05	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)		0.0964	mg/L	1	0.100	96	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0804	mg/L	1	0.100	80	51.1 - 121.7

Sample: 230575 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	69741	Date Analyzed:	2010-05-05	Analyzed By:	AG
Prep Batch:	59699	Sample Preparation:	2010-05-05	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)		0.104	mg/L	1	0.100	104	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0859	mg/L	1	0.100	86	51.1 - 121.7

Sample: 230576 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	69741	Date Analyzed:	2010-05-05	Analyzed By:	AG
Prep Batch:	59699	Sample Preparation:	2010-05-05	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)		0.0905	mg/L	1	0.100	90	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0754	mg/L	1	0.100	75	51.1 - 121.7

Method Blank (1) QC Batch: 69741

QC Batch:	69741	Date Analyzed:	2010-05-05	Analyzed By:	AG
Prep Batch:	59699	QC Preparation:	2010-05-05	Prepared By:	AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0972	mg/L	1	0.100	97	73.6 - 126.6
4-Bromofluorobenzene (4-BFB)		0.0833	mg/L	1	0.100	83	62.6 - 117.5

Laboratory Control Spike (LCS-1)

QC Batch: 69741 | Date Analyzed: 2010-05-05 | Analyzed By: AG
Prep Batch: 59699 | QC Preparation: 2010-05-05 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.101	mg/L	1	0.100	<0.000300	101	79.4 - 112.4
Toluene	0.100	mg/L	1	0.100	<0.000200	100	79.3 - 110
Ethylbenzene	0.0962	mg/L	1	0.100	<0.000200	96	73.8 - 113.1
Xylene	0.291	mg/L	1	0.300	<0.000900	97	73.9 - 113.6

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.101	mg/L	1	0.100	<0.000300	101	79.4 - 112.4	0	20
Toluene	0.101	mg/L	1	0.100	<0.000200	101	79.3 - 110	1	20
Ethylbenzene	0.0976	mg/L	1	0.100	<0.000200	98	73.8 - 113.1	1	20
Xylene	0.296	mg/L	1	0.300	<0.000900	99	73.9 - 113.6	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)	0.0975	0.0929	mg/L	1	0.100	98	93	73.2 - 129.6
4-Bromofluorobenzene (4-BFB)	0.0942	0.0897	mg/L	1	0.100	94	90	77.9 - 119.8

Matrix Spike (MS-1) Spiked Sample: 230663

QC Batch: 69741 | Date Analyzed: 2010-05-05 | Analyzed By: AG
Prep Batch: 59699 | QC Preparation: 2010-05-05 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0981	mg/L	1	0.100	<0.000300	98	77.3 - 117.4
Toluene	0.0964	mg/L	1	0.100	<0.000200	96	75 - 111.8
Ethylbenzene	0.0928	mg/L	1	0.100	<0.000200	93	78.8 - 106.6
Xylene	0.281	mg/L	1	0.300	<0.000900	94	68.9 - 114

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.100	mg/L	1	0.100	<0.000300	100	77.3 - 117.4	2	20
Toluene	0.0990	mg/L	1	0.100	<0.000200	99	75 - 111.8	3	20
Ethylbenzene	0.0956	mg/L	1	0.100	<0.000200	96	78.8 - 106.6	3	20
Xylene	0.290	mg/L	1	0.300	<0.000900	97	68.9 - 114	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0840	0.0873	mg/L	1	0.1	84	87	76.3 - 129.8
4-Bromofluorobenzene (4-BFB)	0.0820	0.0833	mg/L	1	0.1	82	83	75.2 - 112.8

Standard (CCV-1)

QC Batch: 69741 Date Analyzed: 2010-05-05 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	80 - 120	2010-05-05
Toluene		mg/L	0.100	0.0994	99	80 - 120	2010-05-05
Ethylbenzene		mg/L	0.100	0.0952	95	80 - 120	2010-05-05
Xylene		mg/L	0.300	0.287	96	80 - 120	2010-05-05

Standard (CCV-2)

QC Batch: 69741 Date Analyzed: 2010-05-05 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	0.0970	97	80 - 120	2010-05-05
Toluene		mg/L	0.100	0.0948	95	80 - 120	2010-05-05
Ethylbenzene		mg/L	0.100	0.0914	91	80 - 120	2010-05-05
Xylene		mg/L	0.300	0.277	92	80 - 120	2010-05-05

LAB Order ID # 10050424

Page 1 of 1

TraceAnalysis, Inc.

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

Company Name: Nova
Phone #: 520-7720
Address: (Street, City, Zip) 2057 Commerce
Fax #:
Contact Person: Ron R.
E-mail:
Invoice to: (If different from above) Plains
Project #: TNM - Monument #17
Project Name: Mon. #17
Project Location (including state): N.M.
Sampled Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
230571	MW-4	3	Vol	X				X				X		5-3	1200		X																						
572	MW-9														1230																										
573	MW-7														1300																										
574	MW-1														1330																										
575	MW-2														1400																										
576	MW-3														1430																										

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Nova	5/4/10	0810		TRACE	5/4/10	8:10	INST ___ OBS 3.1 °C COR 3.1 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ___ OBS ___ °C COR ___ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ___ OBS ___ °C COR ___ °C

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

REMARKS:
all tests - Midland

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

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

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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

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 16, 2010

Work Order: 10081113

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

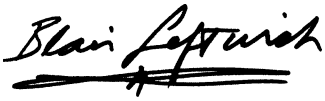
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
240574	MW-9	water	2010-08-09	10:05	2010-08-10
240575	MW-7	water	2010-08-09	10:45	2010-08-10
240576	MW-1	water	2010-08-09	11:20	2010-08-10
240577	MW-2	water	2010-08-09	12:05	2010-08-10
240578	MW-3	water	2010-08-09	13:10	2010-08-10

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

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.



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

Standard Flags

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

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2010-08-10 and assigned to work order 10081113. Samples for work order 10081113 were received intact without headspace and at a temperature of 3.2 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	62172	2010-08-11 at 15:24	72526	2010-08-11 at 15:24
BTEX	S 8021B	62217	2010-08-12 at 15:09	72579	2010-08-12 at 15:09

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 10081113 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: 240574 - MW-9

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	72526	Date Analyzed:	2010-08-11	Analyzed By:	ER
Prep Batch:	62172	Sample Preparation:	2010-08-11	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[1]	<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)		0.409	mg/L	5	0.500	82	79.8 - 104
4-Bromofluorobenzene (4-BFB)		0.448	mg/L	5	0.500	90	82.5 - 109

Sample: 240575 - MW-7

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	72579	Date Analyzed:	2010-08-12	Analyzed By:	ER
Prep Batch:	62217	Sample Preparation:	2010-08-12	Prepared By:	ER

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)	[2]	0.106	mg/L	1	0.100	106	79.8 - 104
4-Bromofluorobenzene (4-BFB)	[3]	0.117	mg/L	1	0.100	117	82.5 - 109

Sample: 240576 - MW-1

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	72526	Date Analyzed:	2010-08-11	Analyzed By:	ER
Prep Batch:	62172	Sample Preparation:	2010-08-11	Prepared By:	ER

[1] Sample dilution necessitated due to the presence of soil in sample.
[2] High surrogate recovery due to peak interference.
[3] High surrogate recovery due to peak interference.

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00810**		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)	[4]	0.0756	mg/L	1	0.100	76	79.8 - 104
4-Bromofluorobenzene (4-BFB)		0.0880	mg/L	1	0.100	88	82.5 - 109

Sample: 240577 - MW-2

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	72526	Date Analyzed:	2010-08-11	Analyzed By:	ER
Prep Batch:	62172	Sample Preparation:	2010-08-11	Prepared By:	ER

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00130**		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)		0.0843	mg/L	1	0.100	84	79.8 - 104
4-Bromofluorobenzene (4-BFB)		0.0908	mg/L	1	0.100	91	82.5 - 109

Sample: 240578 - MW-3

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	72579	Date Analyzed:	2010-08-12	Analyzed By:	ER
Prep Batch:	62217	Sample Preparation:	2010-08-12	Prepared By:	ER

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0145**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00380**		mg/L	1	0.00100
Xylene		**0.00410**		mg/L	1	0.00100

[4] TFT surrogate recovery outside normal limits. Results biased low.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0978	mg/L	1	0.100	98	79.8 - 104
4-Bromofluorobenzene (4-BFB)	[5]	0.148	mg/L	1	0.100	148	82.5 - 109

Method Blank (1) QC Batch: 72526

QC Batch: 72526 Date Analyzed: 2010-08-11 Analyzed By: ER
Prep Batch: 62172 QC Preparation: 2010-08-11 Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000371	mg/L	0.001
Toluene		<0.000400	mg/L	0.001
Ethylbenzene		<0.000430	mg/L	0.001
Xylene		<0.000379	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0944	mg/L	1	0.100	94	79.8 - 104
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	82.5 - 109

Method Blank (1) QC Batch: 72579

QC Batch: 72579 Date Analyzed: 2010-08-12 Analyzed By: ER
Prep Batch: 62217 QC Preparation: 2010-08-12 Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000371	mg/L	0.001
Toluene		<0.000400	mg/L	0.001
Ethylbenzene		<0.000430	mg/L	0.001
Xylene		<0.000379	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0975	mg/L	1	0.100	98	79.8 - 104
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	82.5 - 109

[5] High surrogate recovery due to peak interference.

Laboratory Control Spike (LCS-1)

QC Batch: 72526 | Date Analyzed: 2010-08-11 | Analyzed By: ER
Prep Batch: 62172 | QC Preparation: 2010-08-11 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0925	mg/L	1	0.100	<0.000371	92	83.9 - 108
Toluene	0.0927	mg/L	1	0.100	<0.000400	93	83.5 - 109
Ethylbenzene	0.0929	mg/L	1	0.100	<0.000430	93	80.9 - 114
Xylene	0.275	mg/L	1	0.300	<0.000379	92	79.5 - 116

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	0.0920	mg/L	1	0.100	<0.000371	92	83.9 - 108	0	20
Toluene	0.0928	mg/L	1	0.100	<0.000400	93	83.5 - 109	0	20
Ethylbenzene	0.0927	mg/L	1	0.100	<0.000430	93	80.9 - 114	0	20
Xylene	0.273	mg/L	1	0.300	<0.000379	91	79.5 - 116	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)	0.0837	0.0821	mg/L	1	0.100	84	82	77.1 - 109
4-Bromofluorobenzene (4-BFB)	0.0862	0.0858	mg/L	1	0.100	86	86	78.9 - 112

Laboratory Control Spike (LCS-1)

QC Batch: 72579 | Date Analyzed: 2010-08-12 | Analyzed By: ER
Prep Batch: 62217 | QC Preparation: 2010-08-12 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.100	mg/L	1	0.100	<0.000371	100	83.9 - 108
Toluene	0.0996	mg/L	1	0.100	<0.000400	100	83.5 - 109
Ethylbenzene	0.0996	mg/L	1	0.100	<0.000430	100	80.9 - 114
Xylene	0.302	mg/L	1	0.300	<0.000379	101	79.5 - 116

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	<0.000371	101	83.9 - 108	1	20
Toluene	0.101	mg/L	1	0.100	<0.000400	101	83.5 - 109	1	20
Ethylbenzene	0.102	mg/L	1	0.100	<0.000430	102	80.9 - 114	2	20
Xylene	0.305	mg/L	1	0.300	<0.000379	102	79.5 - 116	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)	0.0948	0.0954	mg/L	1	0.100	95	95	77.1 - 109
4-Bromofluorobenzene (4-BFB)	0.0928	0.0928	mg/L	1	0.100	93	93	78.9 - 112

Matrix Spike (MS-1) Spiked Sample: 240570

QC Batch: 72526 | Date Analyzed: 2010-08-11 | Analyzed By: ER
Prep Batch: 62172 | QC Preparation: 2010-08-11 | Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0479	mg/L	1	0.100	<0.000371	48	15.5 - 142
Toluene	0.0473	mg/L	1	0.100	<0.000400	47	20.2 - 138
Ethylbenzene	0.0481	mg/L	1	0.100	<0.000430	48	17.4 - 141
Xylene	0.144	mg/L	1	0.300	<0.000379	48	21.1 - 138

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	[6]	0.0908	mg/L	1	0.100	<0.000371	91	15.5 - 142	62	20
Toluene	[7]	0.0911	mg/L	1	0.100	<0.000400	91	20.2 - 138	63	20
Ethylbenzene	[8]	0.0911	mg/L	1	0.100	<0.000430	91	17.4 - 141	62	20
Xylene	[9]	0.268	mg/L	1	0.300	<0.000379	89	21.1 - 138	60	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)	0.0891	0.0831	mg/L	1	0.1	89	83	74.2 - 116
4-Bromofluorobenzene (4-BFB)	0.0941	0.0870	mg/L	1	0.1	94	87	78.2 - 120

Matrix Spike (MS-1) Spiked Sample: 240469

QC Batch: 72579 | Date Analyzed: 2010-08-12 | Analyzed By: ER
Prep Batch: 62217 | QC Preparation: 2010-08-12 | Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	6.05	mg/L	50	5.00	0.84	104	15.5 - 142

continued ...

[6] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[7] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[8] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[9] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued . . .

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Toluene	6.40	mg/L	50	5.00	1.31	102	20.2 - 138
Ethylbenzene	5.00	mg/L	50	5.00	<0.0215	100	17.4 - 141
Xylene	16.2	mg/L	50	15.0	1.01	101	21.1 - 138

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	5.65	mg/L	50	5.00	0.84	96	15.5 - 142	7	20
Toluene	6.02	mg/L	50	5.00	1.31	94	20.2 - 138	6	20
Ethylbenzene	4.74	mg/L	50	5.00	<0.0215	95	17.4 - 141	5	20
Xylene	15.2	mg/L	50	15.0	1.01	95	21.1 - 138	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)	5.19	5.19	mg/L	50	5	104	104	74.2 - 116
4-Bromofluorobenzene (4-BFB)	5.08	5.01	mg/L	50	5	102	100	78.2 - 120

Standard (CCV-2)

QC Batch: 72526 Date Analyzed: 2010-08-11 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0892	89	80 - 120	2010-08-11
Toluene		mg/L	0.100	0.0894	89	80 - 120	2010-08-11
Ethylbenzene		mg/L	0.100	0.0886	89	80 - 120	2010-08-11
Xylene		mg/L	0.300	0.263	88	80 - 120	2010-08-11

Standard (CCV-3)

QC Batch: 72526 Date Analyzed: 2010-08-11 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0870	87	80 - 120	2010-08-11
Toluene		mg/L	0.100	0.0865	86	80 - 120	2010-08-11
Ethylbenzene		mg/L	0.100	0.0869	87	80 - 120	2010-08-11
Xylene		mg/L	0.300	0.258	86	80 - 120	2010-08-11

Standard (CCV-2)

QC Batch: 72579 | Date Analyzed: 2010-08-12 | Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0933	93	80 - 120	2010-08-12
Toluene		mg/L	0.100	0.0925	92	80 - 120	2010-08-12
Ethylbenzene		mg/L	0.100	0.0945	94	80 - 120	2010-08-12
Xylene		mg/L	0.300	0.283	94	80 - 120	2010-08-12

Standard (CCV-3)

QC Batch: 72579 | Date Analyzed: 2010-08-12 | Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0971	97	80 - 120	2010-08-12
Toluene		mg/L	0.100	0.0958	96	80 - 120	2010-08-12
Ethylbenzene		mg/L	0.100	0.0963	96	80 - 120	2010-08-12
Xylene		mg/L	0.300	0.289	96	80 - 120	2010-08-12

LAB Order ID # 10081113

Page 1 of 1

TraceAnalysis, Inc.

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2501 Mayes Rd., Ste 100
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Company Name: Nova

Phone #: 432-520-7720

Address: (Street, City, Zip) 2057 Commerce Midland Tx 79703

Fax #: 432-520-7701

Contact Person: Ron R.

E-mail:

Invoice to: (If different from above)

Project #: TNM-Monument #17

Project Name: Monument #17

Project Location (including state): New Mexico

Sampler Signature:

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
240574	MW-9	3	109	X				X				X		8-9-10	10:05
575	MW-7														10:45
576	MW-1														11:20
577	MW-2														12:05
578	MW-3														13:10

Analysis columns: MTBE 8021 / 602 / 8260 / 624; BTEX 8021 / 602 / 8260 / 624 (X); TPH 418.1 / TX1005 / TX1005 Ext(C35); TPH 8015 GRO / DRO / TVHC; PAH 8270 / 625; Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7; TCLP Metals Ag As Ba Cd Cr Pb Se Hg; TCLP Volatiles; TCLP Semi Volatiles; TCLP Pesticides; RCI; GC/MS Vol. 8260 / 624; GC/MS Semi. Vol. 8270 / 625; PCB's 8082 / 608; Pesticides 8081 / 608; BOD, TSS, pH; Moisture Content; Cl, Fl, S04, NO3, NO2, Alkalinity; Na, Ca, Mg, K, TDS, EC; Turn Around Time if different from standard; Hold

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST / OBS / COR
		8-10-10	7:00			08/10/10	700	°C
Rahil Rumbell		8-10-10	8:00	Matt Green	Nova	8-10-10	8:00	°C
Matt Green	Nova	8-10-10	8:45		Trace	8/10/10	8:41	OBS 3.2 °C

LAB USE ONLY

Intact (Y) N

Headspace Y / N / NA

Log-in-Review

REMARKS: all tests - Lubbock

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

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

Carrier # Carrier (LS ZK296330)

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: November 12, 2010

Work Order: 10110911

Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
249947	MW-5	water	2010-11-08	10:45	2010-11-09
249948	MW-8	water	2010-11-08	11:30	2010-11-09
249949	MW-4	water	2010-11-08	12:15	2010-11-09
249950	MW-9	water	2010-11-08	13:00	2010-11-09
249951	MW-7	water	2010-11-08	13:45	2010-11-09
249952	MW-2	water	2010-11-08	14:30	2010-11-09
249953	MW-1	water	2010-11-08	15:15	2010-11-09
249954	MW-3	water	2010-11-08	16:00	2010-11-09

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

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

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

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

Standard Flags

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

Case Narrative

Samples for project TNM Monument #17 were received by TraceAnalysis, Inc. on 2010-11-09 and assigned to work order 10110911. Samples for work order 10110911 were received intact without headspace and at a temperature of 2.1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	64483	2010-11-09 at 10:00	75295	2010-11-09 at 10:21

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10110911 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: 249947 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	Sample Preparation:	2010-11-09	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)		0.115	mg/L	1	0.100	115	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.119	mg/L	1	0.100	119	51.1 - 128

Sample: 249948 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	Sample Preparation:	2010-11-09	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)		0.107	mg/L	1	0.100	107	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	51.1 - 128

Sample: 249949 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	Sample Preparation:	2010-11-09	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.111	mg/L	1	0.100	111	51.1 - 128

Sample: 249950 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	Sample Preparation:	2010-11-09	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.116	mg/L	1	0.100	116	51.1 - 128

Sample: 249951 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	Sample Preparation:	2010-11-09	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00470**		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)		0.105	mg/L	1	0.100	105	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.111	mg/L	1	0.100	111	51.1 - 128

Sample: 249952 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	Sample Preparation:	2010-11-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0156**	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)		0.110	mg/L	1	0.100	110	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.115	mg/L	1	0.100	115	51.1 - 128

Sample: 249953 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	Sample Preparation:	2010-11-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00770**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.00640**	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)		0.110	mg/L	1	0.100	110	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	51.1 - 128

Sample: 249954 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	Sample Preparation:	2010-11-09	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0141**	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	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.116	mg/L	1	0.100	116	51.1 - 128

Method Blank (1) QC Batch: 75295

QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	QC Preparation:	2010-11-09	Prepared By:	AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000600	mg/L	0.001
Toluene		<0.000600	mg/L	0.001
Ethylbenzene		<0.000800	mg/L	0.001
Xylene		<0.000767	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.111	mg/L	1	0.100	111	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	47.3 - 116

Laboratory Control Spike (LCS-1)

QC Batch:	75295	Date Analyzed:	2010-11-09	Analyzed By:	AG
Prep Batch:	64483	QC Preparation:	2010-11-09	Prepared By:	AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0931	mg/L	1	0.100	<0.000600	93	82.9 - 118

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Toluene	0.0926	mg/L	1	0.100	<0.000600	93	82.7 - 117
Ethylbenzene	0.0954	mg/L	1	0.100	<0.000800	95	78.8 - 116
Xylene	0.287	mg/L	1	0.300	<0.000767	96	79.3 - 116

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	0.0890	mg/L	1	0.100	<0.000600	89	82.9 - 118	4	20
Toluene	0.0887	mg/L	1	0.100	<0.000600	89	82.7 - 117	4	20
Ethylbenzene	0.0904	mg/L	1	0.100	<0.000800	90	78.8 - 116	5	20
Xylene	0.274	mg/L	1	0.300	<0.000767	91	79.3 - 116	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)	0.100	0.107	mg/L	1	0.100	100	107	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.106	0.112	mg/L	1	0.100	106	112	68.2 - 134

Matrix Spike (MS-1) Spiked Sample: 249954

QC Batch: 75295 | Date Analyzed: 2010-11-09 | Analyzed By: AG
Prep Batch: 64483 | QC Preparation: 2010-11-09 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.111	mg/L	1	0.100	<0.000600	111	77.9 - 114
Toluene	0.0967	mg/L	1	0.100	<0.000600	97	78.3 - 111
Ethylbenzene	0.0964	mg/L	1	0.100	<0.000800	96	75.3 - 110
Xylene	0.288	mg/L	1	0.300	<0.000767	96	75.7 - 109

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene [1]	0.117	mg/L	1	0.100	<0.000600	117	77.9 - 114	5	20
Toluene	0.0984	mg/L	1	0.100	<0.000600	98	78.3 - 111	2	20
Ethylbenzene	0.102	mg/L	1	0.100	<0.000800	102	75.3 - 110	6	20
Xylene	0.303	mg/L	1	0.300	<0.000767	101	75.7 - 109	5	20

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

continued ...

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

matrix spikes continued . . .

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	[2]	0.0991	0.109	mg/L	1	0.1	99	109	68.3 - 107
4-Bromofluorobenzene (4-BFB)		0.108	0.120	mg/L	1	0.1	108	120	60.1 - 135

Standard (CCV-1)

QC Batch: 75295 Date Analyzed: 2010-11-09 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	0.0878	88	80 - 120	2010-11-09
Toluene		mg/L	0.100	0.0859	86	80 - 120	2010-11-09
Ethylbenzene		mg/L	0.100	0.0874	87	80 - 120	2010-11-09
Xylene		mg/L	0.300	0.265	88	80 - 120	2010-11-09

Standard (CCV-2)

QC Batch: 75295 Date Analyzed: 2010-11-09 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	0.0895	90	80 - 120	2010-11-09
Toluene		mg/L	0.100	0.0891	89	80 - 120	2010-11-09
Ethylbenzene		mg/L	0.100	0.0905	90	80 - 120	2010-11-09
Xylene		mg/L	0.300	0.276	92	80 - 120	2010-11-09

[2] High surrogate recovery due to peak interference.

LAB Order ID # 10110911

Page 1 of 1

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Fax #: 432-520-7701
Contact Person: Ron K.
E-mail:
Invoice to: (If different from above)
Project #: TWM-Monument #17
Project Name: Monument #17
Project Location (including state): New Mexico
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
249947	MW-5	3	VOA	X				X				X		11-8	10:45		X																						
948	MW-8	↓	↓	↓				↓				↓		↓	11:30		↓																						
949	MW-4														12:15																								
950	MW-9														13:00																								
951	MW-7														13:45																								
952	MW-2														14:30																								
953	MW-1														15:15																								
954	MW-3	↓	↓	↓				↓				↓		↓	16:00		↓																						

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Nova	11-9	7:00am	Matt Green	Nova	11/9/10	8:30	INST ____ OBS ____ °C COR ____ °C
Matt Green	Nova	11-9-10	8:35		TA	11/9/10	8:35	INST ____ OBS 2.1 °C COR 2.1 °C
								INST ____ OBS ____ °C COR ____ °C

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

REMARKS:
ALL tests Midland

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

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

Carrier #

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Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 10, 2011

Work Order: 11020904

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
256890	MW-1	water	2011-02-07	15:00	2011-02-09
256891	MW-2	water	2011-02-07	17:00	2011-02-09
256892	MW-3	water	2011-02-07	16:00	2011-02-09
256893	MW-7	water	2011-02-07	14:00	2011-02-09
256894	MW-9	water	2011-02-07	13:00	2011-02-09

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 7 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.



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

Standard Flags

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

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2011-02-09 and assigned to work order 11020904. Samples for work order 11020904 were received intact without headspace and at a temperature of -0.4 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	66485	2011-02-09 at 10:50	77507	2011-02-09 at 10:50

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 11020904 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: 256890 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	77507	Date Analyzed:	2011-02-09	Analyzed By:	ME
Prep Batch:	66485	Sample Preparation:	2011-02-09	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		**0.0198**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)		0.0902	mg/L	1	0.100	90	78.6 - 122.8

Sample: 256891 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	77507	Date Analyzed:	2011-02-09	Analyzed By:	ME
Prep Batch:	66485	Sample Preparation:	2011-02-09	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		**0.0191**		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	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)	[1]	0.0728	mg/L	1	0.100	73	78.6 - 122.8

Sample: 256892 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	77507	Date Analyzed:	2011-02-09	Analyzed By:	ME
Prep Batch:	66485	Sample Preparation:	2011-02-09	Prepared By:	ME

[1] Surrogate out due to peak interference.

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0175**		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)		0.0976	mg/L	1	0.100	98	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)	[2]	0.0652	mg/L	1	0.100	65	78.6 - 122.8

Sample: 256893 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	77507	Date Analyzed:	2011-02-09	Analyzed By:	ME
Prep Batch:	66485	Sample Preparation:	2011-02-09	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		**0.0188**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)	[3]	0.0649	mg/L	1	0.100	65	78.6 - 122.8

Sample: 256894 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	77507	Date Analyzed:	2011-02-09	Analyzed By:	ME
Prep Batch:	66485	Sample Preparation:	2011-02-09	Prepared By:	ME

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

[2]Surrogate out due to peak interference.
[3]Surrogate out due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	75.4 - 119.4
4-Bromofluorobenzene (4-BFB)	[4]	0.0689	mg/L	1	0.100	69	78.6 - 122.8

Method Blank (1) QC Batch: 77507

QC Batch: 77507 | Date Analyzed: 2011-02-09 | Analyzed By: ME
Prep Batch: 66485 | QC Preparation: 2011-02-09 | Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0978	mg/L	1	0.100	98	70.8 - 117.4
4-Bromofluorobenzene (4-BFB)		0.0921	mg/L	1	0.100	92	79 - 113.4

Laboratory Control Spike (LCS-1)

QC Batch: 77507 | Date Analyzed: 2011-02-09 | Analyzed By: ME
Prep Batch: 66485 | QC Preparation: 2011-02-09 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.104	mg/L	1	0.100	<0.000400	104	76.8 - 110.3
Toluene	0.104	mg/L	1	0.100	<0.000300	104	81 - 108.2
Ethylbenzene	0.103	mg/L	1	0.100	<0.000300	103	78.8 - 111
Xylene	0.309	mg/L	1	0.300	<0.000333	103	80.3 - 111.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.103	mg/L	1	0.100	<0.000400	103	76.8 - 110.3	1	20
Toluene	0.104	mg/L	1	0.100	<0.000300	104	81 - 108.2	0	20
Ethylbenzene	0.104	mg/L	1	0.100	<0.000300	104	78.8 - 111	1	20
Xylene	0.310	mg/L	1	0.300	<0.000333	103	80.3 - 111.4	0	20

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

[4] Surrogate out due to peak interference.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.108	0.101	mg/L	1	0.100	108	101	66.6 - 114.5
4-Bromofluorobenzene (4-BFB)	0.104	0.0964	mg/L	1	0.100	104	96	77.1 - 114.4

Standard (CCV-1)

QC Batch: 77507 Date Analyzed: 2011-02-09 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.111	111	80 - 120	2011-02-09
Toluene		mg/L	0.100	0.118	118	80 - 120	2011-02-09
Ethylbenzene		mg/L	0.100	0.103	103	80 - 120	2011-02-09
Xylene		mg/L	0.300	0.322	107	80 - 120	2011-02-09

Standard (CCV-2)

QC Batch: 77507 Date Analyzed: 2011-02-09 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0958	96	80 - 120	2011-02-09
Toluene		mg/L	0.100	0.0942	94	80 - 120	2011-02-09
Ethylbenzene		mg/L	0.100	0.0934	93	80 - 120	2011-02-09
Xylene		mg/L	0.300	0.270	90	80 - 120	2011-02-09

LAB Order ID # 11020904

Page 1 of 1

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Fax #: 432-520-7721
Contact Person: Ron R.
E-mail:
Invoice to: (If different from above)
Project #: TWM-Monument #17
Project Name: Monument #17
Project Location (including state): New Mexico
Sampler Signature:

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
260890	MW-1	3	VOA	X				X				X		2-7	15:00
891	MW-2														17:00
892	MW-3														16:00
893	MW-7														14:00
894	MW-9														13:00

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
	X																							

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	WWA	2-8-11	8:00		Trace	2-9-11	8:10	INST OBS -0.4 °C COR °C
								INST OBS °C COR °C
								INST OBS °C COR °C

LAB USE ONLY

Intact (Y) / N

Headspace Y (N) NA

Log-in-Review

REMARKS:

* All tests - Midland

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

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

Carrier #

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TRACEANALYSIS, INC.

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Certifications

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

NELAP Certifications

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

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 19, 2011

Work Order: 11051701

Project Location: Monument, Lea Co., NM
Project Name: TNM Monument #17
Project Number: Monument #17

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
266652	MW-4	water	2011-05-16	11:30	2011-05-17
266653	MW-9	water	2011-05-16	12:00	2011-05-17
266654	MW-7	water	2011-05-16	12:30	2011-05-17
266655	MW-1	water	2011-05-16	13:00	2011-05-17
266656	MW-2	water	2011-05-16	13:30	2011-05-17
266657	MW-3	water	2011-05-16	14:00	2011-05-17

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

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

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

Standard Flags

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

Case Narrative

Samples for project TNM Monument #17 were received by TraceAnalysis, Inc. on 2011-05-17 and assigned to work order 11051701. Samples for work order 11051701 were received intact without headspace and at a temperature of 2.3 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	69070	2011-05-18 at 13:00	81380	2011-05-18 at 14:48

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 11051701 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: 266652 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81380	Date Analyzed:	2011-05-18	Analyzed By:	ME
Prep Batch:	69070	Sample Preparation:	2011-05-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0857	mg/L	1	0.100	86	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	51.1 - 128

Sample: 266653 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81380	Date Analyzed:	2011-05-18	Analyzed By:	ME
Prep Batch:	69070	Sample Preparation:	2011-05-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0874	mg/L	1	0.100	87	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	51.1 - 128

Sample: 266654 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81380	Date Analyzed:	2011-05-18	Analyzed By:	ME
Prep Batch:	69070	Sample Preparation:	2011-05-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0879	mg/L	1	0.100	88	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	51.1 - 128

Sample: 266655 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81380	Date Analyzed:	2011-05-18	Analyzed By:	ME
Prep Batch:	69070	Sample Preparation:	2011-05-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.0985	mg/L	1	0.100	98	51.1 - 128

Sample: 266656 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81380	Date Analyzed:	2011-05-18	Analyzed By:	ME
Prep Batch:	69070	Sample Preparation:	2011-05-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.0987	mg/L	1	0.100	99	51.1 - 128

Sample: 266657 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	81380	Date Analyzed:	2011-05-18	Analyzed By:	ME
Prep Batch:	69070	Sample Preparation:	2011-05-18	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0100**	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)		0.0852	mg/L	1	0.100	85	67.8 - 129
4-Bromofluorobenzene (4-BFB)		0.0986	mg/L	1	0.100	99	51.1 - 128

Method Blank (1) QC Batch: 81380

QC Batch:	81380	Date Analyzed:	2011-05-18	Analyzed By:	ME
Prep Batch:	69070	QC Preparation:	2011-05-18	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0909	mg/L	1	0.100	91	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	47.3 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 81380 | Date Analyzed: 2011-05-18 | Analyzed By: ME
Prep Batch: 69070 | QC Preparation: 2011-05-18 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0974	mg/L	1	0.100	<0.000400	97	76.8 - 110
Toluene	0.109	mg/L	1	0.100	<0.000300	109	81 - 118
Ethylbenzene	0.0955	mg/L	1	0.100	<0.000300	96	78.8 - 118
Xylene	0.284	mg/L	1	0.300	<0.000333	95	80.3 - 119

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.103	mg/L	1	0.100	<0.000400	103	76.8 - 110	6	20
Toluene	0.115	mg/L	1	0.100	<0.000300	115	81 - 118	5	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.000300	100	78.8 - 118	5	20
Xylene	0.299	mg/L	1	0.300	<0.000333	100	80.3 - 119	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0856	0.0878	mg/L	1	0.100	86	88	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.101	0.100	mg/L	1	0.100	101	100	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 266403

QC Batch: 81380 | Date Analyzed: 2011-05-18 | Analyzed By: ME
Prep Batch: 69070 | QC Preparation: 2011-05-18 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	4.87	mg/L	20	2.00	3.1334	87	77.9 - 114
Toluene	2.16	mg/L	20	2.00	<0.00600	108	78.3 - 111
Ethylbenzene	2.03	mg/L	20	2.00	0.2547	89	75.3 - 110
Xylene	5.59	mg/L	20	6.00	<0.00666	93	75.7 - 109

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	4.88	mg/L	20	2.00	3.1334	87	77.9 - 114	0	20
Toluene	2.12	mg/L	20	2.00	<0.00600	106	78.3 - 111	2	20
Ethylbenzene	1.99	mg/L	20	2.00	0.2547	87	75.3 - 110	2	20
Xylene	5.52	mg/L	20	6.00	<0.00666	92	75.7 - 109	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.53	1.49	mg/L	20	2	76	74	68.3 - 107
4-Bromofluorobenzene (4-BFB)	2.09	2.02	mg/L	20	2	104	101	60.1 - 135

Standard (CCV-1)

QC Batch: 81380 Date Analyzed: 2011-05-18 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0951	95	80 - 120	2011-05-18
Toluene		mg/L	0.100	0.109	109	80 - 120	2011-05-18
Ethylbenzene		mg/L	0.100	0.0917	92	80 - 120	2011-05-18
Xylene		mg/L	0.300	0.274	91	80 - 120	2011-05-18

Standard (CCV-2)

QC Batch: 81380 Date Analyzed: 2011-05-18 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0985	98	80 - 120	2011-05-18
Toluene		mg/L	0.100	0.111	111	80 - 120	2011-05-18
Ethylbenzene		mg/L	0.100	0.0953	95	80 - 120	2011-05-18
Xylene		mg/L	0.300	0.284	95	80 - 120	2011-05-18

LAB Order ID # 1105170l

Page 1 of 1

TraceAnalysis, Inc.

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

Company Name: NOVA
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Midland TX
Fax #: 432-520-7701
Contact Person: Ron R.
E-mail:
Invoice to: (If different from above)
Project #: TNM-Monument #17
Project Name: Monument #17
Project Location (including state): New Mexico
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
266652	mw-4	3	voa	X				X				X		5-16	11:30
653	mw-9														12:00
654	mw-7														12:30
655	mw-1														13:00
656	mw-2														13:30
657	mw-3														14:00

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
	X																								

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	NOVA	5-17	8:25		TA	5/17/11	8:25	INST ___ OBS 2.3 °C COR 2.3 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ___ OBS ___ °C COR ___ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ___ OBS ___ °C COR ___ °C

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

REMARKS:
all tests - Midland

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

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

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E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 11, 2011

Work Order: 11080901

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
274084	MW-9	water	2011-08-08	14:00	2011-08-09
274085	MW-7	water	2011-08-08	14:45	2011-08-09
274086	MW-1	water	2011-08-08	15:30	2011-08-09
274087	MW-2	water	2011-08-08	16:15	2011-08-09
274088	MW-3	water	2011-08-08	17:00	2011-08-09

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
Dr. Michael Abel, Project Manager

Report Contents

Case Narrative **4**

Analytical Report **5**
Sample 274084 (MW-9) 5
Sample 274085 (MW-7) 5
Sample 274086 (MW-1) 5
Sample 274087 (MW-2) 6
Sample 274088 (MW-3) 6

Method Blanks **8**
QC Batch 83787 - Method Blank (1) 8

Laboratory Control Spikes **9**
QC Batch 83787 - LCS (1) 9
QC Batch 83787 - MS (1) 9

Calibration Standards **11**
QC Batch 83787 - CCV (2) 11
QC Batch 83787 - CCV (3) 11

Appendix **12**
Laboratory Certifications 12
Standard Flags 12
Attachments 12

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2011-08-09 and assigned to work order 11080901. Samples for work order 11080901 were received intact without headspace and at a temperature of 3.1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	71159	2011-08-10 at 09:08	83787	2011-08-10 at 09:08

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 11080901 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: 274084 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	83787	Date Analyzed:	2011-08-10	Analyzed By:	ME
Prep Batch:	71159	Sample Preparation:	2011-08-10	Prepared By:	ME

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.112	mg/L	1	0.100	112	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.106	mg/L	1	0.100	106	67.5 - 140.8

Sample: 274085 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	83787	Date Analyzed:	2011-08-10	Analyzed By:	ME
Prep Batch:	71159	Sample Preparation:	2011-08-10	Prepared By:	ME

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.116	mg/L	1	0.100	116	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.109	mg/L	1	0.100	109	67.5 - 140.8

Sample: 274086 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	83787	Date Analyzed:	2011-08-10	Analyzed By:	ME
Prep Batch:	71159	Sample Preparation:	2011-08-10	Prepared By:	ME

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1	**0.0145**	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	**0.00690**	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.110	mg/L	1	0.100	110	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.102	mg/L	1	0.100	102	67.5 - 140.8

Sample: 274087 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	83787	Date Analyzed:	2011-08-10	Analyzed By:	ME
Prep Batch:	71159	Sample Preparation:	2011-08-10	Prepared By:	ME

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1	**0.0428**	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.101	mg/L	1	0.100	101	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0961	mg/L	1	0.100	96	67.5 - 140.8

Sample: 274088 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	83787	Date Analyzed:	2011-08-10	Analyzed By:	ME
Prep Batch:	71159	Sample Preparation:	2011-08-10	Prepared By:	ME

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Benzene		1	**0.0103**		mg/L	1	0.00100
Toluene	U	1	<0.00100		mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100		mg/L	1	0.00100
Xylene	U	1	<0.00100		mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.113	mg/L	1	0.100	113	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.104	mg/L	1	0.100	104	67.5 - 140.8

Method Blanks

Method Blank (1) QC Batch: 83787

QC Batch:	83787	Date Analyzed:	2011-08-10	Analyzed By:	ME
Prep Batch:	71159	QC Preparation:	2011-08-10	Prepared By:	ME

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.105	mg/L	1	0.100	105	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0966	mg/L	1	0.100	97	45.9 - 126.4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 83787 | Date Analyzed: 2011-08-10 | Analyzed By: ME
Prep Batch: 71159 | QC Preparation: 2011-08-10 | Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0901	mg/L	1	0.100	<0.000400	90	88 - 116.8
Toluene		1	0.100	mg/L	1	0.100	<0.000300	100	90.9 - 122.2
Ethylbenzene		1	0.0983	mg/L	1	0.100	<0.000300	98	72.7 - 120.2
Xylene		1	0.294	mg/L	1	0.300	<0.000333	98	72.1 - 121.5

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0939	mg/L	1	0.100	<0.000400	94	88 - 116.8	4	20
Toluene		1	0.104	mg/L	1	0.100	<0.000300	104	90.9 - 122.2	4	20
Ethylbenzene		1	0.103	mg/L	1	0.100	<0.000300	103	72.7 - 120.2	5	20
Xylene		1	0.309	mg/L	1	0.300	<0.000333	103	72.1 - 121.5	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)	0.106	0.112	mg/L	1	0.100	106	112	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.103	0.110	mg/L	1	0.100	103	110	56.4 - 127.9

Matrix Spike (MS-1) Spiked Sample: 274004

QC Batch: 83787 | Date Analyzed: 2011-08-10 | Analyzed By: ME
Prep Batch: 71159 | QC Preparation: 2011-08-10 | Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	13.8	mg/L	50	5.00	9.4222	88	66.9 - 128.2
Toluene		1	4.84	mg/L	50	5.00	<0.0150	97	81.6 - 122.9
Ethylbenzene		1	6.05	mg/L	50	5.00	1.4675	92	62.7 - 117.9
Xylene		1	14.3	mg/L	50	15.0	0.9728	89	62.9 - 118.2

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	13.8	mg/L	50	5.00	9.4222	88	66.9 - 128.2	0	20
Toluene		1	4.96	mg/L	50	5.00	<0.0150	99	81.6 - 122.9	2	20
Ethylbenzene		1	6.17	mg/L	50	5.00	1.4675	94	62.7 - 117.9	2	20
Xylene		1	14.8	mg/L	50	15.0	0.9728	92	62.9 - 118.2	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)	5.24	5.23	mg/L	50	5	105	105	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	5.36	5.35	mg/L	50	5	107	107	52.2 - 135.8

Calibration Standards

Standard (CCV-2)

QC Batch: 83787 | Date Analyzed: 2011-08-10 | Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0967	97	80 - 120	2011-08-10
Toluene		1	mg/L	0.100	0.106	106	80 - 120	2011-08-10
Ethylbenzene		1	mg/L	0.100	0.105	105	80 - 120	2011-08-10
Xylene		1	mg/L	0.300	0.313	104	80 - 120	2011-08-10

Standard (CCV-3)

QC Batch: 83787 | Date Analyzed: 2011-08-10 | Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0964	96	80 - 120	2011-08-10
Toluene		1	mg/L	0.100	0.106	106	80 - 120	2011-08-10
Ethylbenzene		1	mg/L	0.100	0.104	104	80 - 120	2011-08-10
Xylene		1	mg/L	0.300	0.311	104	80 - 120	2011-08-10

Appendix

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

Standard Flags

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

Attachments

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

LAB Order ID # 1108090 1

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Lubbock, Texas 79424
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Fax (806) 794-1298
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Tel (432) 689-6301
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200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
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1 (888) 588-3443

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

Company Name: Nova
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Midland TX 79703
Fax #: 432-520-7701
Contact Person: Ron R.
E-mail:
Invoice to:
(If different from above)
Project #: TWM-Monument #17
Project Name: Mon #17
Project Location (including state): New Mexico
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
274084	mw-9	3	VOA	X				X				X		8-8	14:00		X																						
085	mw-7														14:45																									
086	mw-1														15:30																									
087	mw-2														16:15																									
088	mw-3														17:00																									

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Nova	8-9-11	7:00am			8/9/11	0800	INST ___ °C OBS ___ °C COR ___ °C
		8/9/11	0855A		T/A	8/9/11	8:55	INST ___ °C OBS 3.1 °C COR ___ °C
								INST ___ °C OBS ___ °C COR ___ °C

LAB USE ONLY
Intact (Y) N
Headspace Y N (NA)
Log-in-Review ___

REMARKS: all tests Midland

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

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

Carrier # ___

ORIGINAL COPY

TRACEANALYSIS, INC.

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: November 15, 2011

Work Order: 11111404

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
282278	MW 5	water	2011-11-11	12:30	2011-11-14
282279	MW 8	water	2011-11-11	12:30	2011-11-14
282280	MW 4	water	2011-11-11	12:40	2011-11-14
282281	MW 9	water	2011-11-11	12:35	2011-11-14
282282	MW 7	water	2011-11-11	12:45	2011-11-14
282283	MW 3	water	2011-11-11	12:50	2011-11-14
282284	MW 1	water	2011-11-11	12:55	2011-11-14
282285	MW 2	water	2011-11-11	13:00	2011-11-14

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

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



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

Report Contents

Case Narrative **4**

Analytical Report **5**
Sample 282278 (MW 5) . . . 5
Sample 282279 (MW 8) . . . 5
Sample 282280 (MW 4) . . . 5
Sample 282281 (MW 9) . . . 6
Sample 282282 (MW 7) . . . 6
Sample 282283 (MW 3) . . . 7
Sample 282284 (MW 1) . . . 7
Sample 282285 (MW 2) . . . 8

Method Blanks **9**
QC Batch 86423 - Method Blank (1) . . . 9

Laboratory Control Spikes **10**
QC Batch 86423 - LCS (1) . . . 10
QC Batch 86423 - MS (1) . . . 10

Calibration Standards **12**
QC Batch 86423 - CCV (1) . . . 12
QC Batch 86423 - CCV (2) . . . 12
QC Batch 86423 - CCV (3) . . . 12

Appendix **13**
Report Definitions . . . 13
Laboratory Certifications . . . 13
Standard Flags . . . 13
Attachments . . . 13

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2011-11-14 and assigned to work order 11111404. Samples for work order 11111404 were received intact without headspace and at a temperature of 6.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	73378	2011-11-14 at 13:50	86423	2011-11-14 at 14:26

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 11111404 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: 282278 - MW 5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0939	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0830	mg/L	1	0.100	83	67.5 - 140.8

Sample: 282279 - MW 8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0933	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0813	mg/L	1	0.100	81	67.5 - 140.8

Sample: 282280 - MW 4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0923	mg/L	1	0.100	92	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0802	mg/L	1	0.100	80	67.5 - 140.8

Sample: 282281 - MW 9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0934	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0790	mg/L	1	0.100	79	67.5 - 140.8

Sample: 282282 - MW 7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0909	mg/L	1	0.100	91	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0843	mg/L	1	0.100	84	67.5 - 140.8

Sample: 282283 - MW 3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	Result	RL Units	Dilution	RL
Benzene			1	**0.0166**	mg/L	1	0.00100
Toluene	U	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0933	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0809	mg/L	1	0.100	81	67.5 - 140.8

Sample: 282284 - MW 1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	Result	RL Units	Dilution	RL
Benzene			1	**0.00320**	mg/L	1	0.00100
Toluene	U	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0934	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0804	mg/L	1	0.100	80	67.5 - 140.8

Sample: 282285 - MW 2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	Sample Preparation:	2011-11-14	Prepared By:	AG

Parameter		Flag	Cert	Result	RL Units	Dilution	RL
Benzene			1	**0.0318**	mg/L	1	0.00100
Toluene	U	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	U	1	<0.00100	mg/L	1	0.00100
Xylene			1	**0.00220**	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0939	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0777	mg/L	1	0.100	78	67.5 - 140.8

Method Blanks

Method Blank (1) QC Batch: 86423

QC Batch:	86423	Date Analyzed:	2011-11-14	Analyzed By:	AG
Prep Batch:	73378	QC Preparation:	2011-11-14	Prepared By:	AG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0930	mg/L	1	0.100	93	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0815	mg/L	1	0.100	82	45.9 - 126.4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86423 | Date Analyzed: 2011-11-14 | Analyzed By: AG
Prep Batch: 73378 | QC Preparation: 2011-11-14 | Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0953	mg/L	1	0.100	<0.000400	95	76.8 - 120.3
Toluene		1	0.0912	mg/L	1	0.100	<0.000300	91	80.9 - 122.2
Ethylbenzene		1	0.0886	mg/L	1	0.100	<0.000300	89	72.7 - 120.2
Xylene		1	0.266	mg/L	1	0.300	<0.000333	89	72.1 - 121.5

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0994	mg/L	1	0.100	<0.000400	99	76.8 - 120.3	4	20
Toluene		1	0.0945	mg/L	1	0.100	<0.000300	94	80.9 - 122.2	4	20
Ethylbenzene		1	0.0923	mg/L	1	0.100	<0.000300	92	72.7 - 120.2	4	20
Xylene		1	0.277	mg/L	1	0.300	<0.000333	92	72.1 - 121.5	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)	0.0921	0.0929	mg/L	1	0.100	92	93	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.0935	0.0940	mg/L	1	0.100	94	94	56.4 - 127.9

Matrix Spike (MS-1) Spiked Sample: 282285

QC Batch: 86423 | Date Analyzed: 2011-11-14 | Analyzed By: AG
Prep Batch: 73378 | QC Preparation: 2011-11-14 | Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.135	mg/L	1	0.100	0.0318	103	66.9 - 128.2
Toluene		1	0.0986	mg/L	1	0.100	<0.000300	99	81.6 - 122.9
Ethylbenzene		1	0.0953	mg/L	1	0.100	<0.000300	95	62.7 - 117.9
Xylene		1	0.284	mg/L	1	0.300	0.0022	94	62.9 - 118.2

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.131	mg/L	1	0.100	0.0318	99	66.9 - 128.2	3	20
Toluene		1	0.0989	mg/L	1	0.100	<0.000300	99	81.6 - 122.9	0	20
Ethylbenzene		1	0.0963	mg/L	1	0.100	<0.000300	96	62.7 - 117.9	1	20
Xylene		1	0.287	mg/L	1	0.300	0.0022	95	62.9 - 118.2	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)	0.0973	0.0932	mg/L	1	0.1	97	93	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	0.0907	0.0908	mg/L	1	0.1	91	91	52.2 - 135.8

Calibration Standards

Standard (CCV-1)

QC Batch: 86423 | Date Analyzed: 2011-11-14 | Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0942	94	80 - 120	2011-11-14
Toluene		1	mg/L	0.100	0.0874	87	80 - 120	2011-11-14
Ethylbenzene		1	mg/L	0.100	0.0832	83	80 - 120	2011-11-14
Xylene		1	mg/L	0.300	0.250	83	80 - 120	2011-11-14

Standard (CCV-2)

QC Batch: 86423 | Date Analyzed: 2011-11-14 | Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0990	99	80 - 120	2011-11-14
Toluene		1	mg/L	0.100	0.0937	94	80 - 120	2011-11-14
Ethylbenzene		1	mg/L	0.100	0.0890	89	80 - 120	2011-11-14
Xylene		1	mg/L	0.300	0.267	89	80 - 120	2011-11-14

Standard (CCV-3)

QC Batch: 86423 | Date Analyzed: 2011-11-14 | Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2011-11-14
Toluene		1	mg/L	0.100	0.0944	94	80 - 120	2011-11-14
Ethylbenzene		1	mg/L	0.100	0.0899	90	80 - 120	2011-11-14
Xylene		1	mg/L	0.300	0.269	90	80 - 120	2011-11-14

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

Standard Flags

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

Attachments

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

LAB Order ID # 11111404

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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Fax (432) 689-6313

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

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

Company Name: NOVA Safety & Environmental
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce, Midland, TX, 79703
Fax #:
Contact Person: ~~Brythe Lee~~ Ron
E-mail:
Invoice to:
(If different from above)
Project #:
Project Name: TNM - Monument 17
Project Location (including state): Monument, NM
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
282278	MW5	3	Voa	X				X				X		11/11	1230
279	MW8														1230
280	MW4														1240
281	MW9														1235
282	MW7														1245
283	MW3														1250
284	MW1														1255
285	MW2														1300

ANALYSIS REQUEST (Circle or Specify Method No.)	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard	Hold
MTBE 8021 / 602 / 8260 / 624																				
	X																			

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST / OBS / COR
~~Brythe Lee~~	NOVA	11/11	1530		T/A	11/14/11	16:00	INST / OBS 6.0 °C / COR °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST / OBS °C / COR °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST / OBS °C / COR °C

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

REMARKS:
ALL tests Midland

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

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

Carrier # Lanyin

ORIGINAL COPY

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: January 5, 2012

Work Order: 11122008

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
284924	MW-7	water	2011-12-16	17:15	2011-12-19

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

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

Report Contents

Case Narrative **3**

Analytical Report **4**
Sample 284924 (MW-7) 4

Method Blanks **5**
QC Batch 87624 - Method Blank (1) 5

Laboratory Control Spikes **6**
QC Batch 87624 - LCS (1) 6

Calibration Standards **8**
QC Batch 87624 - CCV (2) 8
QC Batch 87624 - CCV (3) 8

Appendix **10**
Report Definitions 10
Laboratory Certifications 10
Standard Flags 10
Attachments 10

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2011-12-19 and assigned to work order 11122008. Samples for work order 11122008 were received intact at a temperature of 10.8 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
PAH	S 8270D	74399	2012-12-22 at 15:00	87624	2012-01-05 at 11:26

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 11122008 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: 284924 - MW-7

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	87624	Date Analyzed:	2012-01-05	Analyzed By:	MN
Prep Batch:	74399	Sample Preparation:	2012-12-22	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	U	1	<0.000183	mg/L	0.913	0.000200
2-Methylnaphthalene	U	1	<0.000183	mg/L	0.913	0.000200
1-Methylnaphthalene	U		<0.000183	mg/L	0.913	0.000200
Acenaphthylene	U	1	<0.000183	mg/L	0.913	0.000200
Acenaphthene	U	1	<0.000183	mg/L	0.913	0.000200
Dibenzofuran		1	<0.000183	mg/L	0.913	0.000200
Fluorene	U	1	<0.000183	mg/L	0.913	0.000200
Anthracene	U	1	<0.000183	mg/L	0.913	0.000200
Phenanthrene	U		<0.000183	mg/L	0.913	0.000200
Fluoranthene	U		<0.000183	mg/L	0.913	0.000200
Pyrene	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(a)anthracene	U		<0.000183	mg/L	0.913	0.000200
Chrysene	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(b)fluoranthene	U		<0.000183	mg/L	0.913	0.000200
Benzo(k)fluoranthene	Qr,U	1	<0.000183	mg/L	0.913	0.000200
Benzo(a)pyrene	U	1	<0.000183	mg/L	0.913	0.000200
Indeno(1,2,3-cd)pyrene	U	1	<0.000183	mg/L	0.913	0.000200
Dibenzo(a,h)anthracene	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(g,h,i)perylene	U		<0.000183	mg/L	0.913	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0302	mg/L	0.913	0.0800	38	10 - 117
2-Fluorobiphenyl			0.0306	mg/L	0.913	0.0800	38	10 - 99
Terphenyl-d14			0.0324	mg/L	0.913	0.0800	40	22.6 - 115

Method Blanks

Method Blank (1) QC Batch: 87624

QC Batch:	87624	Date Analyzed:	2012-01-05	Analyzed By:	MN
Prep Batch:	74399	QC Preparation:	2012-12-22	Prepared By:	MN

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0369	mg/L	1	0.0800	46	10 - 117
2-Fluorobiphenyl			0.0323	mg/L	1	0.0800	40	10 - 99
Terphenyl-d14			0.0357	mg/L	1	0.0800	45	22.6 - 115

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 87624 | Date Analyzed: 2012-01-05 | Analyzed By: MN
Prep Batch: 74399 | QC Preparation: 2012-12-22 | Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1	0.0281	mg/L	1	0.0800	<0.0000904	35	10 - 89.9
2-Methylnaphthalene		1	0.0325	mg/L	1	0.0800	<0.000184	41	13.8 - 98.4
1-Methylnaphthalene			0.0312	mg/L	1	0.0800	<0.000120	39	13.1 - 103
Acenaphthylene		1	0.0370	mg/L	1	0.0800	<0.000101	46	20 - 104
Acenaphthene		1	0.0357	mg/L	1	0.0800	<0.000122	45	21.6 - 94.6
Dibenzofuran		1	0.0392	mg/L	1	0.0800	<0.000119	49	22.9 - 74.9
Fluorene		1	0.0396	mg/L	1	0.0800	<0.000198	50	30.8 - 109
Anthracene		1	0.0426	mg/L	1	0.0800	<0.000190	53	37.6 - 96.4
Phenanthrene			0.0430	mg/L	1	0.0800	<0.000190	54	42.4 - 99.8
Fluoranthene			0.0469	mg/L	1	0.0800	<0.000122	59	48 - 118
Pyrene		1	0.0457	mg/L	1	0.0800	<0.000142	57	45.3 - 109
Benzo(a)anthracene			0.0548	mg/L	1	0.0800	<0.000138	68	48 - 113
Chrysene		1	0.0619	mg/L	1	0.0800	<0.000155	77	35.2 - 175
Benzo(b)fluoranthene			0.0384	mg/L	1	0.0800	<0.000179	48	16.6 - 106
Benzo(k)fluoranthene		1	0.0367	mg/L	1	0.0800	<0.000185	46	36.8 - 99.4
Benzo(a)pyrene		1	0.0384	mg/L	1	0.0800	<0.000169	48	32.3 - 99.7
Indeno(1,2,3-cd)pyrene		1	0.0420	mg/L	1	0.0800	<0.000139	52	34.1 - 106
Dibenzo(a,h)anthracene		1	0.0559	mg/L	1	0.0800	<0.000107	70	47.1 - 103
Benzo(g,h,i)perylene			0.0407	mg/L	1	0.0800	<0.000143	51	21.9 - 112

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene		1	0.0317	mg/L	1	0.0800	<0.0000904	40	10 - 89.9	12	20
2-Methylnaphthalene		1	0.0374	mg/L	1	0.0800	<0.000184	47	13.8 - 98.4	14	20
1-Methylnaphthalene			0.0358	mg/L	1	0.0800	<0.000120	45	13.1 - 103	14	20
Acenaphthylene		1	0.0410	mg/L	1	0.0800	<0.000101	51	20 - 104	10	20
Acenaphthene		1	0.0398	mg/L	1	0.0800	<0.000122	50	21.6 - 94.6	11	20
Dibenzofuran		1	0.0434	mg/L	1	0.0800	<0.000119	54	22.9 - 74.9	10	20
Fluorene		1	0.0426	mg/L	1	0.0800	<0.000198	53	30.8 - 109	7	20
Anthracene		1	0.0475	mg/L	1	0.0800	<0.000190	59	37.6 - 96.4	11	20
Phenanthrene			0.0484	mg/L	1	0.0800	<0.000190	60	42.4 - 99.8	12	20
Fluoranthene			0.0516	mg/L	1	0.0800	<0.000122	64	48 - 118	10	20
Pyrene		1	0.0488	mg/L	1	0.0800	<0.000142	61	45.3 - 109	7	20

continued ...

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzo(a)anthracene			0.0608	mg/L	1	0.0800	<0.000138	76	48 - 113	10	20
Chrysene		1	0.0687	mg/L	1	0.0800	<0.000155	86	35.2 - 175	10	20
Benzo(b)fluoranthene			0.0390	mg/L	1	0.0800	<0.000179	49	16.6 - 106	2	20
Benzo(k)fluoranthene	Qr	Qr	1 0.0458	mg/L	1	0.0800	<0.000185	57	36.8 - 99.4	22	20
Benzo(a)pyrene			1 0.0434	mg/L	1	0.0800	<0.000169	54	32.3 - 99.7	12	20
Indeno(1,2,3-cd)pyrene			1 0.0470	mg/L	1	0.0800	<0.000139	59	34.1 - 106	11	20
Dibenzo(a,h)anthracene			1 0.0627	mg/L	1	0.0800	<0.000107	78	47.1 - 103	12	20
Benzo(g,h,i)perylene			0.0454	mg/L	1	0.0800	<0.000143	57	21.9 - 112	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
Nitrobenzene-d5	0.0368	0.0403	mg/L	1	0.0800	46	50	10 - 117
2-Fluorobiphenyl	0.0358	0.0402	mg/L	1	0.0800	45	50	10 - 99
Terphenyl-d14	0.0525	0.0562	mg/L	1	0.0800	66	70	22.6 - 115

Calibration Standards

Standard (CCV-2)

QC Batch: 87624 | Date Analyzed: 2012-01-05 | Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	55.0	92	80 - 120	2012-01-05
2-Methylnaphthalene		1	mg/L	60.0	55.2	92	80 - 120	2012-01-05
1-Methylnaphthalene			mg/L	60.0	56.0	93	80 - 120	2012-01-05
Acenaphthylene		1	mg/L	60.0	55.0	92	80 - 120	2012-01-05
Acenaphthene		1	mg/L	60.0	55.4	92	80 - 120	2012-01-05
Dibenzofuran		1	mg/L	60.0	53.6	89	80 - 120	2012-01-05
Fluorene		1	mg/L	60.0	51.1	85	80 - 120	2012-01-05
Anthracene		1	mg/L	60.0	53.2	89	80 - 120	2012-01-05
Phenanthrene			mg/L	60.0	53.7	90	80 - 120	2012-01-05
Fluoranthene			mg/L	60.0	60.8	101	80 - 120	2012-01-05
Pyrene		1	mg/L	60.0	51.8	86	80 - 120	2012-01-05
Benzo(a)anthracene			mg/L	60.0	58.8	98	80 - 120	2012-01-05
Chrysene		1	mg/L	60.0	55.0	92	80 - 120	2012-01-05
Benzo(b)fluoranthene			mg/L	60.0	49.6	83	80 - 120	2012-01-05
Benzo(k)fluoranthene		1	mg/L	60.0	51.8	86	80 - 120	2012-01-05
Benzo(a)pyrene		1	mg/L	60.0	52.8	88	80 - 120	2012-01-05
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	52.9	88	80 - 120	2012-01-05
Dibenzo(a,h)anthracene		1	mg/L	60.0	53.1	88	80 - 120	2012-01-05
Benzo(g,h,i)perylene			mg/L	60.0	53.0	88	80 - 120	2012-01-05

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			55.7	mg/L	1	60.0	93	-
2-Fluorobiphenyl			57.9	mg/L	1	60.0	96	-
Terphenyl-d14			52.4	mg/L	1	60.0	87	-

Standard (CCV-3)

QC Batch: 87624 | Date Analyzed: 2012-01-05 | Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	55.9	93	80 - 120	2012-01-05

continued . . .

standard continued . . .

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
2-Methylnaphthalene		1	mg/L	60.0	55.4	92	80 - 120	2012-01-05
1-Methylnaphthalene			mg/L	60.0	55.7	93	80 - 120	2012-01-05
Acenaphthylene		1	mg/L	60.0	55.5	92	80 - 120	2012-01-05
Acenaphthene		1	mg/L	60.0	56.2	94	80 - 120	2012-01-05
Dibenzofuran		1	mg/L	60.0	54.2	90	80 - 120	2012-01-05
Fluorene		1	mg/L	60.0	52.7	88	80 - 120	2012-01-05
Anthracene		1	mg/L	60.0	53.3	89	80 - 120	2012-01-05
Phenanthrene			mg/L	60.0	54.0	90	80 - 120	2012-01-05
Fluoranthene			mg/L	60.0	59.4	99	80 - 120	2012-01-05
Pyrene		1	mg/L	60.0	55.2	92	80 - 120	2012-01-05
Benzo(a)anthracene			mg/L	60.0	58.8	98	80 - 120	2012-01-05
Chrysene		1	mg/L	60.0	56.0	93	80 - 120	2012-01-05
Benzo(b)fluoranthene			mg/L	60.0	48.6	81	80 - 120	2012-01-05
Benzo(k)fluoranthene		1	mg/L	60.0	52.6	88	80 - 120	2012-01-05
Benzo(a)pyrene		1	mg/L	60.0	50.7	84	80 - 120	2012-01-05
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	53.3	89	80 - 120	2012-01-05
Dibenzo(a,h)anthracene		1	mg/L	60.0	53.8	90	80 - 120	2012-01-05
Benzo(g,h,i)perylene			mg/L	60.0	52.7	88	80 - 120	2012-01-05

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			55.8	mg/L	1	60.0	93	-
2-Fluorobiphenyl			57.5	mg/L	1	60.0	96	-
Terphenyl-d14			55.7	mg/L	1	60.0	93	-

Appendix

Report Definitions

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

Laboratory Certifications

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

Standard Flags

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

Attachments

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

LAB Order ID # 11122008

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

Company Name: Nova

Phone #: (432) 520-7720

Address: (Street, City, Zip) 2057 Commerce Midland TX 79703

Fax #:

Contact Person: Ron Rounsaville

E-mail:

Invoice to:
(If different from above)

Project #:

Project Name: Monument 17

Project Location (including state): New Mexico

Sampler Signature: Ryan Hask

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
38924	MW 7	1	PAH	X								X		12-16	1715

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard	Hold
			X																	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Ryan Haskew	Nova	12-19-11	8:32 AM		TA	12/19/11	8:33	INST 10.8 °C
								OBS °C
								COR °C
	TA	12/19/11	9:09					INST °C
								OBS °C
								COR °C
				Brenda Ward	Trac Lubbock	12/20/11	9:20	INST IR °C
								OBS 3.1 °C
								COR 3.2 °C

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

REMARKS:
All tests Lubbock

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

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

Carrier # Carrizo LS ZN174141

ORIGINAL COPY

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 10, 2012

Work Order: 12020902

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
288578	MW 9	water	2012-02-08	13:36	2012-02-09
288579	MW 7	water	2012-02-08	13:38	2012-02-09
288580	MW 1	water	2012-02-08	13:48	2012-02-09
288581	MW 3	water	2012-02-08	13:57	2012-02-09
288582	MW 2	water	2012-02-08	14:10	2012-02-09

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
Dr. Michael Abel, Project Manager

Report Contents

Case Narrative **4**

Analytical Report **5**
Sample 288578 (MW 9) 5
Sample 288579 (MW 7) 5
Sample 288580 (MW 1) 5
Sample 288581 (MW 3) 6
Sample 288582 (MW 2) 6

Method Blanks **8**
QC Batch 88459 - Method Blank (1) 8

Laboratory Control Spikes **9**
QC Batch 88459 - LCS (1) 9
QC Batch 88459 - MS (1) 9

Calibration Standards **11**
QC Batch 88459 - CCV (1) 11
QC Batch 88459 - CCV (2) 11

Appendix **12**
Report Definitions 12
Laboratory Certifications 12
Standard Flags 12
Attachments 12

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2012-02-09 and assigned to work order 12020902. Samples for work order 12020902 were received intact without headspace and at a temperature of 5.1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	75098	2012-02-09 at 09:46	88459	2012-02-09 at 10:00

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 12020902 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: 288578 - MW 9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	88459	Date Analyzed:	2012-02-09	Analyzed By:	tc
Prep Batch:	75098	Sample Preparation:	2012-02-09	Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.120	mg/L	1	0.100	120	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.103	mg/L	1	0.100	103	51.1 - 122.9

Sample: 288579 - MW 7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	88459	Date Analyzed:	2012-02-09	Analyzed By:	tc
Prep Batch:	75098	Sample Preparation:	2012-02-09	Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0899	mg/L	1	0.100	90	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0771	mg/L	1	0.100	77	51.1 - 122.9

Sample: 288580 - MW 1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	88459	Date Analyzed:	2012-02-09	Analyzed By:	tc
Prep Batch:	75098	Sample Preparation:	2012-02-09	Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0864	mg/L	1	0.100	86	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0699	mg/L	1	0.100	70	51.1 - 122.9

Sample: 288581 - MW 3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	88459	Date Analyzed:	2012-02-09	Analyzed By:	tc
Prep Batch:	75098	Sample Preparation:	2012-02-09	Prepared By:	tc

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr,Qs	1	**0.00470**	mg/L	1	0.00100
Toluene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Xylene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.112	mg/L	1	0.100	112	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0925	mg/L	1	0.100	92	51.1 - 122.9

Sample: 288582 - MW 2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	88459	Date Analyzed:	2012-02-09	Analyzed By:	tc
Prep Batch:	75098	Sample Preparation:	2012-02-09	Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.121	mg/L	1	0.100	121	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0971	mg/L	1	0.100	97	51.1 - 122.9

Method Blanks

Method Blank (1) QC Batch: 88459

QC Batch:	88459	Date Analyzed:	2012-02-09	Analyzed By:	tc
Prep Batch:	75098	QC Preparation:	2012-02-09	Prepared By:	tc

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000600	mg/L	0.001
Toluene		1	<0.000400	mg/L	0.001
Ethylbenzene		1	<0.000600	mg/L	0.001
Xylene		1	<0.00130	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.115	mg/L	1	0.100	115	74.2 - 116
4-Bromofluorobenzene (4-BFB)			0.0929	mg/L	1	0.100	93	54.3 - 104.6

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 88459 | Date Analyzed: 2012-02-09 | Analyzed By: tc
Prep Batch: 75098 | QC Preparation: 2012-02-09 | Prepared By: tc

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.105	mg/L	1	0.100	<0.000600	105	89.7 - 117.6
Toluene		1	0.102	mg/L	1	0.100	<0.000400	102	83.9 - 113.9
Ethylbenzene		1	0.0974	mg/L	1	0.100	<0.000600	97	76.8 - 110.8
Xylene		1	0.291	mg/L	1	0.300	<0.00130	97	76.2 - 110.5

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.111	mg/L	1	0.100	<0.000600	111	89.7 - 117.6	6	20
Toluene		1	0.108	mg/L	1	0.100	<0.000400	108	83.9 - 113.9	6	20
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000600	102	76.8 - 110.8	5	20
Xylene		1	0.307	mg/L	1	0.300	<0.00130	102	76.2 - 110.5	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)	0.108	0.110	mg/L	1	0.100	108	110	72.5 - 117
4-Bromofluorobenzene (4-BFB)	0.0983	0.0989	mg/L	1	0.100	98	99	69.4 - 114

Matrix Spike (MS-1) Spiked Sample: 288585

QC Batch: 88459 | Date Analyzed: 2012-02-09 | Analyzed By: tc
Prep Batch: 75098 | QC Preparation: 2012-02-09 | Prepared By: tc

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.107	mg/L	1	0.100	0.0082	99	86.6 - 130.3
Toluene		1	0.103	mg/L	1	0.100	<0.000400	103	82.2 - 120.1
Ethylbenzene		1	0.0975	mg/L	1	0.100	<0.000600	98	66.8 - 119.2
Xylene		1	0.295	mg/L	1	0.300	0.0194	92	66.5 - 118.4

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

Param		F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	Qr,Qs	Qr,Qs	1	0.0360	mg/L	1	0.100	0.0082	28	86.6 - 130.3	99	20
Toluene	Qr,Qs	Qr,Qs	1	0.0343	mg/L	1	0.100	<0.000400	34	82.2 - 120.1	100	20
Ethylbenzene	Qr,Qs	Qr,Qs	1	0.0323	mg/L	1	0.100	<0.000600	32	66.8 - 119.2	100	20
Xylene	Qr,Qs	Qr,Qs	1	0.0929	mg/L	1	0.300	0.0194	24	66.5 - 118.4	104	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)	0.114	0.113	mg/L	1	0.1	114	113	73.2 - 116.6
4-Bromofluorobenzene (4-BFB)	0.110	0.0946	mg/L	1	0.1	110	95	64.8 - 125.7

Calibration Standards

Standard (CCV-1)

QC Batch: 88459 | Date Analyzed: 2012-02-09 | Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0934	93	80 - 120	2012-02-09
Toluene		1	mg/L	0.100	0.0880	88	80 - 120	2012-02-09
Ethylbenzene		1	mg/L	0.100	0.0839	84	80 - 120	2012-02-09
Xylene		1	mg/L	0.300	0.251	84	80 - 120	2012-02-09

Standard (CCV-2)

QC Batch: 88459 | Date Analyzed: 2012-02-09 | Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.117	117	80 - 120	2012-02-09
Toluene		1	mg/L	0.100	0.114	114	80 - 120	2012-02-09
Ethylbenzene		1	mg/L	0.100	0.107	107	80 - 120	2012-02-09
Xylene		1	mg/L	0.300	0.320	107	80 - 120	2012-02-09

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-11-3	Midland

Standard Flags

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

Attachments

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

LAB Order ID # 12020902

Page 1 of 1

TraceAnalysis, Inc.

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

Company Name: Nova Safety and Environmental
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Drive
Fax #:
Contact Person: Ron Rousseville
E-mail:
Invoice to: (If different from above)
Project #: TNM Monument #17
Project Name: Monument #17
Project Location (including state):
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624
288578	mw 9	3	VOA	X				X				X		2/8/12	1334		X
579	mw 7	3	"	X				X				X		"	1338		X
580	mw 1	3	"	X				X				X		"	1348		X
581	mw 3	3	"	X				X				X		"	1357		X
582	mw 2	3	"	X				X				X		"	1410		X

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Nova	2/9/12	0805		TA	2/9/12	8:05	INST IR-1
								OBS 5.4 °C
								COR °C
								INST °C
								OBS °C
								COR °C
								INST °C
								OBS °C
								COR °C

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

REMARKS: All tests Midland

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

Turn Around Time if different from standard

Hold

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

Carrier #

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 10, 2012

Work Order: 12050803

Project Location: New Mexico
Project Name: Monument #17
Project Number: TNM Monument #17

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
296544	MW-1	water	2012-05-07	15:48	2012-05-08
296545	MW-2	water	2012-05-07	15:54	2012-05-08
296546	MW-3	water	2012-05-07	16:13	2012-05-08
296547	MW-4	water	2012-05-07	16:01	2012-05-08
296548	MW-9	water	2012-05-07	16:07	2012-05-08
296549	MW-7	water	2012-05-07	16:20	2012-05-08

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
Dr. Michael Abel, Project Manager

Report Contents

Case Narrative **4**

Analytical Report **5**
Sample 296544 (MW-1) . . . 5
Sample 296545 (MW-2) . . . 5
Sample 296546 (MW-3) . . . 5
Sample 296547 (MW-4) . . . 6
Sample 296548 (MW-9) . . . 6
Sample 296549 (MW-7) . . . 7

Method Blanks **8**
QC Batch 91012 - Method Blank (1) . . . 8
QC Batch 91062 - Method Blank (1) . . . 8

Laboratory Control Spikes **9**
QC Batch 91012 - LCS (1) . . . 9
QC Batch 91062 - LCS (1) . . . 9
QC Batch 91012 - MS (1) . . . 10
QC Batch 91062 - MS (1) . . . 10

Calibration Standards **12**
QC Batch 91012 - CCV (1) . . . 12
QC Batch 91012 - CCV (2) . . . 12
QC Batch 91012 - CCV (3) . . . 12
QC Batch 91062 - CCV (1) . . . 12
QC Batch 91062 - CCV (2) . . . 13

Appendix **14**
Report Definitions . . . 14
Laboratory Certifications . . . 14
Standard Flags . . . 14
Attachments . . . 14

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2012-05-08 and assigned to work order 12050803. Samples for work order 12050803 were received intact without headspace and at a temperature of 3.9 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	77216	2012-05-08 at 10:41	91012	2012-05-08 at 10:57
BTEX	S 8021B	77253	2012-05-09 at 10:12	91062	2012-05-09 at 10:29

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 12050803 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: 296544 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	91012	Date Analyzed:	2012-05-08	Analyzed By:	tc
Prep Batch:	77216	Sample Preparation:	2012-05-08	Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.104	mg/L	1	0.100	104	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0973	mg/L	1	0.100	97	51.1 - 122.9

Sample: 296545 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	91062	Date Analyzed:	2012-05-09	Analyzed By:	tc
Prep Batch:	77253	Sample Preparation:		Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.107	mg/L	1	0.100	107	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.104	mg/L	1	0.100	104	51.1 - 122.9

Sample: 296546 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	91012	Date Analyzed:	2012-05-08	Analyzed By:	tc
Prep Batch:	77216	Sample Preparation:	2012-05-08	Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0972	mg/L	1	0.100	97	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0949	mg/L	1	0.100	95	51.1 - 122.9

Sample: 296547 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	91012	Date Analyzed:	2012-05-08	Analyzed By:	tc
Prep Batch:	77216	Sample Preparation:	2012-05-08	Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0883	mg/L	1	0.100	88	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0835	mg/L	1	0.100	84	51.1 - 122.9

Sample: 296548 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	91062	Date Analyzed:	2012-05-09	Analyzed By:	tc
Prep Batch:	77253	Sample Preparation:		Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0983	mg/L	1	0.100	98	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0981	mg/L	1	0.100	98	51.1 - 122.9

Sample: 296549 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	91012	Date Analyzed:	2012-05-08	Analyzed By:	tc
Prep Batch:	77216	Sample Preparation:	2012-05-08	Prepared By:	tc

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0989	mg/L	1	0.100	99	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0940	mg/L	1	0.100	94	51.1 - 122.9

Method Blanks

Method Blank (1) QC Batch: 91012

QC Batch: 91012 | Date Analyzed: 2012-05-08 | Analyzed By: tc
Prep Batch: 77216 | QC Preparation: 2012-05-08 | Prepared By: tc

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000600	mg/L	0.001
Toluene		1	<0.000400	mg/L	0.001
Ethylbenzene		1	<0.000600	mg/L	0.001
Xylene		1	<0.00130	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0769	mg/L	1	0.100	77	74.2 - 126
4-Bromofluorobenzene (4-BFB)			0.0729	mg/L	1	0.100	73	51.3 - 124.6

Method Blank (1) QC Batch: 91062

QC Batch: 91062 | Date Analyzed: 2012-05-09 | Analyzed By: tc
Prep Batch: 77253 | QC Preparation: 2012-05-09 | Prepared By: tc

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000600	mg/L	0.001
Toluene		1	<0.000400	mg/L	0.001
Ethylbenzene		1	<0.000600	mg/L	0.001
Xylene		1	<0.00130	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0964	mg/L	1	0.100	96	74.2 - 126
4-Bromofluorobenzene (4-BFB)			0.0920	mg/L	1	0.100	92	51.3 - 124.6

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 91012 | Date Analyzed: 2012-05-08 | Analyzed By: tc
Prep Batch: 77216 | QC Preparation: 2012-05-08 | Prepared By: tc

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.112	mg/L	1	0.100	<0.000600	112	79.7 - 117.6
Toluene		1	0.110	mg/L	1	0.100	<0.000400	110	73.9 - 123.9
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000600	102	76.8 - 120.8
Xylene		1	0.302	mg/L	1	0.300	<0.00130	101	76.2 - 120.5

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.107	mg/L	1	0.100	<0.000600	107	79.7 - 117.6	5	20
Toluene		1	0.104	mg/L	1	0.100	<0.000400	104	73.9 - 123.9	6	20
Ethylbenzene		1	0.0950	mg/L	1	0.100	<0.000600	95	76.8 - 120.8	7	20
Xylene		1	0.283	mg/L	1	0.300	<0.00130	94	76.2 - 120.5	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)	0.114	0.0928	mg/L	1	0.100	114	93	72.5 - 117
4-Bromofluorobenzene (4-BFB)	0.0911	0.0701	mg/L	1	0.100	91	70	69.4 - 124

Laboratory Control Spike (LCS-1)

QC Batch: 91062 | Date Analyzed: 2012-05-09 | Analyzed By: tc
Prep Batch: 77253 | QC Preparation: 2012-05-09 | Prepared By: tc

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0980	mg/L	1	0.100	<0.000600	98	79.7 - 117.6
Toluene		1	0.0954	mg/L	1	0.100	<0.000400	95	73.9 - 123.9
Ethylbenzene		1	0.0919	mg/L	1	0.100	<0.000600	92	76.8 - 120.8
Xylene		1	0.274	mg/L	1	0.300	<0.00130	91	76.2 - 120.5

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.101	mg/L	1	0.100	<0.000600	101	79.7 - 117.6	3	20
Toluene		1	0.0994	mg/L	1	0.100	<0.000400	99	73.9 - 123.9	4	20
Ethylbenzene		1	0.0950	mg/L	1	0.100	<0.000600	95	76.8 - 120.8	3	20
Xylene		1	0.283	mg/L	1	0.300	<0.00130	94	76.2 - 120.5	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)	0.0851	0.0914	mg/L	1	0.100	85	91	72.5 - 117
4-Bromofluorobenzene (4-BFB)	0.0851	0.0897	mg/L	1	0.100	85	90	69.4 - 124

Matrix Spike (MS-1) Spiked Sample: 296539

QC Batch: 91012 | Date Analyzed: 2012-05-08 | Analyzed By: tc
Prep Batch: 77216 | QC Preparation: 2012-05-08 | Prepared By: tc

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	8.63	mg/L	50	5.00	4.2352	88	86.6 - 130.3
Toluene		1	4.89	mg/L	50	5.00	<0.0200	98	82.2 - 120.1
Ethylbenzene		1	5.03	mg/L	50	5.00	0.4185	92	66.8 - 119.2
Xylene		1	14.8	mg/L	50	15.0	1.1753	91	66.5 - 118.4

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	8.92	mg/L	50	5.00	4.2352	94	86.6 - 130.3	3	20
Toluene		1	5.06	mg/L	50	5.00	<0.0200	101	82.2 - 120.1	3	20
Ethylbenzene		1	5.19	mg/L	50	5.00	0.4185	95	66.8 - 119.2	3	20
Xylene		1	15.4	mg/L	50	15.0	1.1753	95	66.5 - 118.4	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)	4.18	4.53	mg/L	50	5	84	91	73.2 - 116.6
4-Bromofluorobenzene (4-BFB)	4.25	4.47	mg/L	50	5	85	89	64.8 - 125.7

Matrix Spike (MS-1) Spiked Sample: 296768

QC Batch: 91062 | Date Analyzed: 2012-05-09 | Analyzed By: tc
Prep Batch: 77253 | QC Preparation: 2012-05-09 | Prepared By: tc

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.107	mg/L	1	0.100	<0.000600	107	86.6 - 130.3
Toluene		1	0.105	mg/L	1	0.100	<0.000400	105	82.2 - 120.1
Ethylbenzene		1	0.101	mg/L	1	0.100	<0.000600	101	66.8 - 119.2
Xylene		1	0.302	mg/L	1	0.300	<0.00130	101	66.5 - 118.4

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.108	mg/L	1	0.100	<0.000600	108	86.6 - 130.3	1	20
Toluene		1	0.106	mg/L	1	0.100	<0.000400	106	82.2 - 120.1	1	20
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000600	102	66.8 - 119.2	1	20
Xylene		1	0.306	mg/L	1	0.300	<0.00130	102	66.5 - 118.4	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)	0.0938	0.0927	mg/L	1	0.1	94	93	73.2 - 116.6
4-Bromofluorobenzene (4-BFB)	0.0914	0.0891	mg/L	1	0.1	91	89	64.8 - 125.7

Calibration Standards

Standard (CCV-1)

QC Batch: 91012 | Date Analyzed: 2012-05-08 | Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.108	108	80 - 120	2012-05-08
Toluene		1	mg/L	0.100	0.107	107	80 - 120	2012-05-08
Ethylbenzene		1	mg/L	0.100	0.105	105	80 - 120	2012-05-08
Xylene		1	mg/L	0.300	0.316	105	80 - 120	2012-05-08

Standard (CCV-2)

QC Batch: 91012 | Date Analyzed: 2012-05-08 | Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2012-05-08
Toluene		1	mg/L	0.100	0.102	102	80 - 120	2012-05-08
Ethylbenzene		1	mg/L	0.100	0.102	102	80 - 120	2012-05-08
Xylene		1	mg/L	0.300	0.304	101	80 - 120	2012-05-08

Standard (CCV-3)

QC Batch: 91012 | Date Analyzed: 2012-05-08 | Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.107	107	80 - 120	2012-05-08
Toluene		1	mg/L	0.100	0.104	104	80 - 120	2012-05-08
Ethylbenzene		1	mg/L	0.100	0.0979	98	80 - 120	2012-05-08
Xylene		1	mg/L	0.300	0.292	97	80 - 120	2012-05-08

Standard (CCV-1)

QC Batch: 91062 | Date Analyzed: 2012-05-09 | Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.105	105	80 - 120	2012-05-09
Toluene		1	mg/L	0.100	0.103	103	80 - 120	2012-05-09
Ethylbenzene		1	mg/L	0.100	0.0995	100	80 - 120	2012-05-09
Xylene		1	mg/L	0.300	0.297	99	80 - 120	2012-05-09

Standard (CCV-2)

QC Batch: 91062 | Date Analyzed: 2012-05-09 | Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.107	107	80 - 120	2012-05-09
Toluene		1	mg/L	0.100	0.105	105	80 - 120	2012-05-09
Ethylbenzene		1	mg/L	0.100	0.102	102	80 - 120	2012-05-09
Xylene		1	mg/L	0.300	0.306	102	80 - 120	2012-05-09

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-11-3	Midland

Standard Flags

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

Attachments

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

LAB Order ID # 120708O3

Page 1 of 1

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Company Name: NOVA
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 COMMERCE DRIVE
Fax #:
Contact Person: RON ROUNSAVILLE
E-mail:
Invoice to: (If different from above) TNM MONUMENT 17
Project #: NM-2008
Project Name: MONUMENT 17
Project Location (including state): MONUMENT, NM
Sampler Signature: Brian Read

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
296544	MW-1	3	VOA	X				X				X		5/7/12	1548
545	MW-2	3	VOA	X				X				X		5/7/12	1554
546	MW-3	3	VOA	X				X				X		5/7/12	1613
547	MW-4	3	VOA	X				X				X		5/7/12	1601
548	MW-9	3	VOA	X				X				X		5/7/12	1607
549	MW-7	3	VOA	X				X				X		5/7/12	1620

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	X
BTEX 8021 / 602 / 8260 / 624	X
TPH 418.1 / TX1005 / TX1005 Ext(C35)	
TPH 8015 GRO / DRO / TVHC	
PAH 8270 / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol. 8260 / 624	
GC/MS Semi. Vol. 8270 / 625	
PCB's 8082 / 608	
Pesticides 8081 / 608	
BOD, TSS, pH	
Moisture Content	
Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Turn Around Time if different from standard	
Hold	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Brian Read	NOVA	5/8/12	8:10A		TA	5/8/12	810	INST VCI OBS 35 °C COR °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST °C OBS °C COR °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST °C OBS °C COR °C

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

REMARKS:

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

Carrier # Carry-in

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

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 7, 2012

Work Order: 12080201

Project Location: New Mexico
Project Name: Monument #17
Project Number: NM-2008

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
305457	MW-9	water	2012-08-01	13:00	2012-08-02
305458	MW-7	water	2012-08-01	13:15	2012-08-02
305459	MW-1	water	2012-08-01	13:30	2012-08-02
305460	MW-2	water	2012-08-01	13:45	2012-08-02
305461	MW-3	water	2012-08-01	14:00	2012-08-02

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

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

Report Contents

Case Narrative **3**

Analytical Report **4**
Sample 305457 (MW-9) . . . 4
Sample 305458 (MW-7) . . . 4
Sample 305459 (MW-1) . . . 4
Sample 305460 (MW-2) . . . 5
Sample 305461 (MW-3) . . . 5

Method Blanks **7**
QC Batch 93655 - Method Blank (1) . . . 7
QC Batch 93674 - Method Blank (1) . . . 7
QC Batch 93675 - Method Blank (1) . . . 7

Laboratory Control Spikes **9**
QC Batch 93655 - LCS (1) . . . 9
QC Batch 93674 - LCS (1) . . . 9
QC Batch 93675 - LCS (1) . . . 10
QC Batch 93655 - MS (1) . . . 10
QC Batch 93674 - MS (1) . . . 11
QC Batch 93675 - MS (1) . . . 12

Calibration Standards **13**
QC Batch 93655 - CCV (1) . . . 13
QC Batch 93655 - CCV (2) . . . 13
QC Batch 93655 - CCV (3) . . . 13
QC Batch 93674 - CCV (1) . . . 13
QC Batch 93674 - CCV (2) . . . 14
QC Batch 93674 - CCV (3) . . . 14
QC Batch 93675 - CCV (1) . . . 14
QC Batch 93675 - CCV (2) . . . 15
QC Batch 93675 - CCV (3) . . . 15

Appendix **16**
Report Definitions . . . 16
Laboratory Certifications . . . 16
Standard Flags . . . 16
Attachments . . . 16

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2012-08-02 and assigned to work order 12080201. Samples for work order 12080201 were received intact without headspace and at a temperature of 4.7 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	79394	2012-08-03 at 16:37	93655	2012-08-03 at 16:37
BTEX	S 8021B	79409	2012-08-06 at 13:02	93674	2012-08-06 at 13:02
BTEX	S 8021B	79410	2012-08-06 at 13:02	93675	2012-08-06 at 13:02

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 12080201 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: 305457 - MW-9

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	93655	Date Analyzed:	2012-08-03	Analyzed By:	MT
Prep Batch:	79394	Sample Preparation:	2012-08-03	Prepared By:	ZLM

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.101	mg/L	1	0.100	101	70 - 130
4-Bromofluorobenzene (4-BFB)			0.104	mg/L	1	0.100	104	70 - 130

Sample: 305458 - MW-7

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	93674	Date Analyzed:	2012-08-06	Analyzed By:	ZLM
Prep Batch:	79409	Sample Preparation:	2012-08-06	Prepared By:	ZLM

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0909	mg/L	1	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0949	mg/L	1	0.100	95	70 - 130

Sample: 305459 - MW-1

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	93655	Date Analyzed:	2012-08-03	Analyzed By:	MT
Prep Batch:	79394	Sample Preparation:	2012-08-03	Prepared By:	ZLM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1	**0.00880**	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	**0.00180**	mg/L	1	0.00100
Xylene		1	**0.00130**	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.103	mg/L	1	0.100	103	70 - 130
4-Bromofluorobenzene (4-BFB)			0.103	mg/L	1	0.100	103	70 - 130

Sample: 305460 - MW-2

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	93655	Date Analyzed:	2012-08-03	Analyzed By:	MT
Prep Batch:	79394	Sample Preparation:	2012-08-03	Prepared By:	ZLM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1	**0.0126**	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.103	mg/L	1	0.100	103	70 - 130
4-Bromofluorobenzene (4-BFB)			0.103	mg/L	1	0.100	103	70 - 130

Sample: 305461 - MW-3

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	93675	Date Analyzed:	2012-08-06	Analyzed By:	ZLM
Prep Batch:	79410	Sample Preparation:	2012-08-06	Prepared By:	ZLM

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0944	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0981	mg/L	1	0.100	98	70 - 130

Method Blanks

Method Blank (1) QC Batch: 93655

QC Batch: 93655 | Date Analyzed: 2012-08-03 | Analyzed By: MT
Prep Batch: 79394 | QC Preparation: 2012-08-03 | Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000371	mg/L	0.001
Toluene		1	<0.000347	mg/L	0.001
Ethylbenzene		1	<0.000326	mg/L	0.001
Xylene		1	<0.000357	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0987	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	70 - 130

Method Blank (1) QC Batch: 93674

QC Batch: 93674 | Date Analyzed: 2012-08-06 | Analyzed By: ZLM
Prep Batch: 79409 | QC Preparation: 2012-08-06 | Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000371	mg/L	0.001
Toluene		1	<0.000347	mg/L	0.001
Ethylbenzene		1	<0.000326	mg/L	0.001
Xylene		1	<0.000357	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.102	mg/L	1	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)			0.105	mg/L	1	0.100	105	70 - 130

Method Blank (1) QC Batch: 93675

QC Batch: 93675 | Date Analyzed: 2012-08-06 | Analyzed By: ZLM
Prep Batch: 79410 | QC Preparation: 2012-08-06 | Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000371	mg/L	0.001
Toluene		1	<0.000347	mg/L	0.001
Ethylbenzene		1	<0.000326	mg/L	0.001
Xylene		1	<0.000357	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0963	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.100	mg/L	1	0.100	100	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 93655 | Date Analyzed: 2012-08-03 | Analyzed By: MT
Prep Batch: 79394 | QC Preparation: 2012-08-03 | Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0964	mg/L	1	0.100	<0.000371	96	78.6 - 120
Toluene		1	0.0998	mg/L	1	0.100	<0.000347	100	79.6 - 120
Ethylbenzene		1	0.101	mg/L	1	0.100	<0.000326	101	80 - 120
Xylene		1	0.299	mg/L	1	0.300	<0.000357	100	79.3 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0969	mg/L	1	0.100	<0.000371	97	78.6 - 120	0	20
Toluene		1	0.100	mg/L	1	0.100	<0.000347	100	79.6 - 120	0	20
Ethylbenzene		1	0.103	mg/L	1	0.100	<0.000326	103	80 - 120	2	20
Xylene		1	0.302	mg/L	1	0.300	<0.000357	101	79.3 - 120	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)	0.0974	0.0974	mg/L	1	0.100	97	97	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0959	0.0951	mg/L	1	0.100	96	95	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 93674 | Date Analyzed: 2012-08-06 | Analyzed By: ZLM
Prep Batch: 79409 | QC Preparation: 2012-08-06 | Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0983	mg/L	1	0.100	<0.000371	98	78.6 - 120
Toluene		1	0.102	mg/L	1	0.100	<0.000347	102	79.6 - 120
Ethylbenzene		1	0.105	mg/L	1	0.100	<0.000326	105	80 - 120
Xylene		1	0.310	mg/L	1	0.300	<0.000357	103	79.3 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.102	mg/L	1	0.100	<0.000371	102	78.6 - 120	4	20
Toluene		1	0.106	mg/L	1	0.100	<0.000347	106	79.6 - 120	4	20
Ethylbenzene		1	0.112	mg/L	1	0.100	<0.000326	112	80 - 120	6	20
Xylene		1	0.325	mg/L	1	0.300	<0.000357	108	79.3 - 120	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)	0.0976	0.0979	mg/L	1	0.100	98	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0962	0.0960	mg/L	1	0.100	96	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 93675 | Date Analyzed: 2012-08-06 | Analyzed By: ZLM
Prep Batch: 79410 | QC Preparation: 2012-08-06 | Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0947	mg/L	1	0.100	<0.000371	95	78.6 - 120
Toluene		1	0.0984	mg/L	1	0.100	<0.000347	98	79.6 - 120
Ethylbenzene		1	0.0996	mg/L	1	0.100	<0.000326	100	80 - 120
Xylene		1	0.296	mg/L	1	0.300	<0.000357	99	79.3 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0946	mg/L	1	0.100	<0.000371	95	78.6 - 120	0	20
Toluene		1	0.0979	mg/L	1	0.100	<0.000347	98	79.6 - 120	0	20
Ethylbenzene		1	0.0988	mg/L	1	0.100	<0.000326	99	80 - 120	1	20
Xylene		1	0.294	mg/L	1	0.300	<0.000357	98	79.3 - 120	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)	0.0935	0.0939	mg/L	1	0.100	94	94	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0943	0.0936	mg/L	1	0.100	94	94	70 - 130

Matrix Spike (MS-1) Spiked Sample: 305457

QC Batch: 93655 | Date Analyzed: 2012-08-03 | Analyzed By: MT
Prep Batch: 79394 | QC Preparation: 2012-08-03 | Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0984	mg/L	1	0.100	<0.000371	98	42.2 - 136
Toluene		1	0.102	mg/L	1	0.100	<0.000347	102	44.3 - 133
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000326	102	45.6 - 132
Xylene		1	0.302	mg/L	1	0.300	<0.000357	100	44.7 - 128

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0966	mg/L	1	0.100	<0.000371	97	42.2 - 136	2	20
Toluene		1	0.0992	mg/L	1	0.100	<0.000347	99	44.3 - 133	2	20
Ethylbenzene		1	0.0998	mg/L	1	0.100	<0.000326	100	45.6 - 132	2	20
Xylene		1	0.295	mg/L	1	0.300	<0.000357	98	44.7 - 128	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)	0.0993	0.0974	mg/L	1	0.1	99	97	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0974	0.0956	mg/L	1	0.1	97	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 305411

QC Batch: 93674 | Date Analyzed: 2012-08-06 | Analyzed By: ZLM
Prep Batch: 79409 | QC Preparation: 2012-08-06 | Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.499	mg/L	5	0.500	<0.00186	100	42.2 - 136
Toluene		1	0.522	mg/L	5	0.500	<0.00174	104	44.3 - 133
Ethylbenzene		1	0.532	mg/L	5	0.500	<0.00163	106	45.6 - 132
Xylene		1	1.57	mg/L	5	1.50	<0.00178	105	44.7 - 128

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.488	mg/L	5	0.500	<0.00186	98	42.2 - 136	2	20
Toluene		1	0.513	mg/L	5	0.500	<0.00174	103	44.3 - 133	2	20

continued ...

matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene		1	0.523	mg/L	5	0.500	<0.00163	105	45.6 - 132	2	20
Xylene		1	1.55	mg/L	5	1.50	<0.00178	103	44.7 - 128	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)	0.498	0.498	mg/L	5	0.5	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.498	0.497	mg/L	5	0.5	100	99	70 - 130

Matrix Spike (MS-1) Spiked Sample: 305463

QC Batch:	93675	Date Analyzed:	2012-08-06	Analyzed By:	ZLM
Prep Batch:	79410	QC Preparation:	2012-08-06	Prepared By:	ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.883	mg/L	5	0.500	0.431	90	42.2 - 136
Toluene		1	0.462	mg/L	5	0.500	<0.00174	92	44.3 - 133
Ethylbenzene		1	0.700	mg/L	5	0.500	0.226	95	45.6 - 132
Xylene		1	1.39	mg/L	5	1.50	<0.00178	93	44.7 - 128

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.873	mg/L	5	0.500	0.431	88	42.2 - 136	1	20
Toluene		1	0.465	mg/L	5	0.500	<0.00174	93	44.3 - 133	1	20
Ethylbenzene		1	0.695	mg/L	5	0.500	0.226	94	45.6 - 132	1	20
Xylene		1	1.40	mg/L	5	1.50	<0.00178	93	44.7 - 128	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)	0.460	0.461	mg/L	5	0.5	92	92	70 - 130
4-Bromofluorobenzene (4-BFB)	0.477	0.472	mg/L	5	0.5	95	94	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 93655 | Date Analyzed: 2012-08-03 | Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0996	100	80 - 120	2012-08-03
Toluene		1	mg/L	0.100	0.103	103	80 - 120	2012-08-03
Ethylbenzene		1	mg/L	0.100	0.104	104	80 - 120	2012-08-03
Xylene		1	mg/L	0.300	0.307	102	80 - 120	2012-08-03

Standard (CCV-2)

QC Batch: 93655 | Date Analyzed: 2012-08-03 | Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0994	99	80 - 120	2012-08-03
Toluene		1	mg/L	0.100	0.102	102	80 - 120	2012-08-03
Ethylbenzene		1	mg/L	0.100	0.103	103	80 - 120	2012-08-03
Xylene		1	mg/L	0.300	0.304	101	80 - 120	2012-08-03

Standard (CCV-3)

QC Batch: 93655 | Date Analyzed: 2012-08-03 | Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.100	100	80 - 120	2012-08-03
Toluene		1	mg/L	0.100	0.103	103	80 - 120	2012-08-03
Ethylbenzene		1	mg/L	0.100	0.106	106	80 - 120	2012-08-03
Xylene		1	mg/L	0.300	0.310	103	80 - 120	2012-08-03

Standard (CCV-1)

QC Batch: 93674 | Date Analyzed: 2012-08-06 | Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2012-08-06
Toluene		1	mg/L	0.100	0.105	105	80 - 120	2012-08-06
Ethylbenzene		1	mg/L	0.100	0.107	107	80 - 120	2012-08-06
Xylene		1	mg/L	0.300	0.317	106	80 - 120	2012-08-06

Standard (CCV-2)

QC Batch: 93674 | Date Analyzed: 2012-08-06 | Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0990	99	80 - 120	2012-08-06
Toluene		1	mg/L	0.100	0.104	104	80 - 120	2012-08-06
Ethylbenzene		1	mg/L	0.100	0.109	109	80 - 120	2012-08-06
Xylene		1	mg/L	0.300	0.313	104	80 - 120	2012-08-06

Standard (CCV-3)

QC Batch: 93674 | Date Analyzed: 2012-08-06 | Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0928	93	80 - 120	2012-08-06
Toluene		1	mg/L	0.100	0.0956	96	80 - 120	2012-08-06
Ethylbenzene		1	mg/L	0.100	0.0962	96	80 - 120	2012-08-06
Xylene		1	mg/L	0.300	0.285	95	80 - 120	2012-08-06

Standard (CCV-1)

QC Batch: 93675 | Date Analyzed: 2012-08-06 | Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0944	94	80 - 120	2012-08-06
Toluene		1	mg/L	0.100	0.0978	98	80 - 120	2012-08-06
Ethylbenzene		1	mg/L	0.100	0.0992	99	80 - 120	2012-08-06
Xylene		1	mg/L	0.300	0.294	98	80 - 120	2012-08-06

Standard (CCV-2)

QC Batch: 93675 Date Analyzed: 2012-08-06 Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0942	94	80 - 120	2012-08-06
Toluene		1	mg/L	0.100	0.0966	97	80 - 120	2012-08-06
Ethylbenzene		1	mg/L	0.100	0.0992	99	80 - 120	2012-08-06
Xylene		1	mg/L	0.300	0.292	97	80 - 120	2012-08-06

Standard (CCV-3)

QC Batch: 93675 Date Analyzed: 2012-08-06 Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0928	93	80 - 120	2012-08-06
Toluene		1	mg/L	0.100	0.0959	96	80 - 120	2012-08-06
Ethylbenzene		1	mg/L	0.100	0.102	102	80 - 120	2012-08-06
Xylene		1	mg/L	0.300	0.289	96	80 - 120	2012-08-06

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

Standard Flags

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

Attachments

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

LAB Order ID # 130802 01

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
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BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Nova Safety & Environmental
Phone #: (432) 520-7720
Address: (Street, City, Zip)
Fax #:
Contact Person: Ron Rounsaville
E-mail:
Invoice to: (If different from above) SRS*TNM Monument 17 ~~Shawn Harris~~
Project #: NM-2008
Project Name: Monument 17
Project Location (including state): Monument, New Mexico
Sampler Signature: Tyler Pigford

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
305457	Mw - 9	3	VOA	X				X				X		8/1/12	1300
458	Mw - 7	↓	↓	↓				↓				↓		↓	1315
459	Mw - 1														1330
460	Mw - 2														1345
461	Mw - 3	↓	↓	↓				↓				↓		↓	1400

MTBE 8021 / 602 / 8260 / 624
BTEX 8021 / 602 / 8260 / 624 — X X
TPH 418.1 / TX1005 / TX1005 Ext(C35)
TPH 8015 GRO / DRO / TVHC
PAH 8270 / 625
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
TCLP Pesticides
RCI
GC/MS Vol. 8260 / 624
GC/MS Semi. Vol. 8270 / 625
PCB's 8082 / 608
Pesticides 8081 / 608
BOD, TSS, pH
Moisture Content
Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity
Na, Ca, Mg, K, TDS, EC
Turn Around Time if different from standard
Hold

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Tyler Pigford	Nova	8/2/12	805		TA	8/2/12	805	INST H-1 °C
								OBS 77 °C
								COR 4.7 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	TA	8/2/12	820					INST ____ °C
								OBS ____ °C
								COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
								INST ____ °C
								OBS ____ °C
								COR ____ °C

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

REMARKS:
Rush 24 hr - All
BTEX only - per Becky 8/2

- [ ] 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.

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LAB Order ID # 30802 01

Page 1 of 1

TraceAnalysis, Inc.

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

Company Name: Nova Safety & Environmental
Phone #: (432) 520-7720
Address: (Street, City, Zip)
Fax #:
Contact Person: Ron Rounsaville
E-mail:
Invoice to: (If different from above) SRS # TNM Monument 17 ~~Shawn Harris~~
Project #: NM-2008
Project Name: Monument 17
Project Location (including state): Monument, New Mexico
Sampler Signature: Tyler Pigford

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
30 5457	Mw - 9	3	VOA	X				X				X		8/1/12	1300
458	Mw - 7														1315
459	Mw - 1														1330
460	Mw - 2														1345
461	Mw - 3														1400

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
	X	X																							

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Tyler Pigford	Nova	8/2/12	805		TA	8/2/12	805	INST 1.8 °C
								OBS 4.7 °C
								COR 4.7 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	TA	8/2/12	820					INST ____ °C
								OBS ____ °C
								COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
						8/2/12	16:00	INST ____ °C
								OBS ____ °C
								COR ____ °C

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

REMARKS:
Quadruple - All
BTEX only - per Becky 8/2

- 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.

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TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: December 26, 2012

Work Order: 12121302

Project Location: New Mexico
Project Name: Monument #17
Project Number: NM-2008
SRS #: TNM-Monument 17

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
316509	MW-5	water	2012-12-12	15:03	2012-12-13
316510	MW-8	water	2012-12-12	16:22	2012-12-13
316511	MW-4	water	2012-12-12	14:40	2012-12-13
316512	MW-7	water	2012-12-12	14:22	2012-12-13
316513	MW-9	water	2012-12-12	14:32	2012-12-13
316514	MW-3	water	2012-12-12	15:13	2012-12-13
316515	MW-1	water	2012-12-12	16:14	2012-12-13
316516	MW-2	water	2012-12-12	16:01	2012-12-13

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

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



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

Report Contents

Case Narrative **4**

Analytical Report **5**
Sample 316509 (MW-5) . . . 5
Sample 316510 (MW-8) . . . 5
Sample 316511 (MW-4) . . . 5
Sample 316512 (MW-7) . . . 6
Sample 316513 (MW-9) . . . 6
Sample 316514 (MW-3) . . . 7
Sample 316515 (MW-1) . . . 7
Sample 316516 (MW-2) . . . 8

Method Blanks **10**
QC Batch 97626 - Method Blank (1) . . . 10
QC Batch 97677 - Method Blank (1) . . . 10

Laboratory Control Spikes **12**
QC Batch 97626 - LCS (1) . . . 12
QC Batch 97677 - LCS (1) . . . 12
QC Batch 97626 - MS (1) . . . 14

Calibration Standards **15**
QC Batch 97626 - CCV (1) . . . 15
QC Batch 97626 - CCV (2) . . . 15
QC Batch 97626 - CCV (3) . . . 15
QC Batch 97677 - CCV (1) . . . 15
QC Batch 97677 - CCV (2) . . . 16

Appendix **18**
Report Definitions . . . 18
Laboratory Certifications . . . 18
Standard Flags . . . 18
Attachments . . . 18

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2012-12-13 and assigned to work order 12121302. Samples for work order 12121302 were received intact without headspace and at a temperature of 4.8 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	82716	2012-12-19 at 16:47	97626	2012-12-19 at 16:47
PAH	S 8270D	82752	2012-12-19 at 15:00	97677	2012-12-26 at 10:06

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12121302 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: 316509 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	97626	Date Analyzed:	2012-12-19	Analyzed By:	YG
Prep Batch:	82716	Sample Preparation:	2012-12-19	Prepared By:	YG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0961	mg/L	1	0.100	96	73.3 - 111.5
4-Bromofluorobenzene (4-BFB)			0.0916	mg/L	1	0.100	92	45.5 - 131.5

Sample: 316510 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	97626	Date Analyzed:	2012-12-19	Analyzed By:	YG
Prep Batch:	82716	Sample Preparation:	2012-12-19	Prepared By:	YG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0973	mg/L	1	0.100	97	73.3 - 111.5
4-Bromofluorobenzene (4-BFB)			0.0927	mg/L	1	0.100	93	45.5 - 131.5

Sample: 316511 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	97626	Date Analyzed:	2012-12-19	Analyzed By:	YG
Prep Batch:	82716	Sample Preparation:	2012-12-19	Prepared By:	YG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0967	mg/L	1	0.100	97	73.3 - 111.5
4-Bromofluorobenzene (4-BFB)			0.0901	mg/L	1	0.100	90	45.5 - 131.5

Sample: 316512 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	97626	Date Analyzed:	2012-12-19	Analyzed By:	YG
Prep Batch:	82716	Sample Preparation:	2012-12-19	Prepared By:	YG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0979	mg/L	1	0.100	98	73.3 - 111.5
4-Bromofluorobenzene (4-BFB)			0.0943	mg/L	1	0.100	94	45.5 - 131.5

Sample: 316513 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	97626	Date Analyzed:	2012-12-19	Analyzed By:	YG
Prep Batch:	82716	Sample Preparation:	2012-12-19	Prepared By:	YG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0966	mg/L	1	0.100	97	73.3 - 111.5
4-Bromofluorobenzene (4-BFB)			0.0914	mg/L	1	0.100	91	45.5 - 131.5

Sample: 316514 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	97626	Date Analyzed:	2012-12-19	Analyzed By:	YG
Prep Batch:	82716	Sample Preparation:	2012-12-19	Prepared By:	YG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0980	mg/L	1	0.100	98	73.3 - 111.5
4-Bromofluorobenzene (4-BFB)			0.0938	mg/L	1	0.100	94	45.5 - 131.5

Sample: 316515 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	97626	Date Analyzed:	2012-12-19	Analyzed By:	YG
Prep Batch:	82716	Sample Preparation:	2012-12-19	Prepared By:	YG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0955	mg/L	1	0.100	96	73.3 - 111.5
4-Bromofluorobenzene (4-BFB)			0.0900	mg/L	1	0.100	90	45.5 - 131.5

Sample: 316516 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	97626	Date Analyzed:	2012-12-19	Analyzed By:	YG
Prep Batch:	82716	Sample Preparation:	2012-12-19	Prepared By:	YG

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		2	**0.00420**	mg/L	1	0.00100
Toluene	U	2	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	2	<0.00100	mg/L	1	0.00100
Xylene	U	2	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0972	mg/L	1	0.100	97	73.3 - 111.5
4-Bromofluorobenzene (4-BFB)			0.0917	mg/L	1	0.100	92	45.5 - 131.5

Sample: 316516 - MW-2

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	97677	Date Analyzed:	2012-12-26	Analyzed By:	MN
Prep Batch:	82752	Sample Preparation:	2012-12-19	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	U	1	<0.000201	mg/L	1.005	0.000200
2-Methylnaphthalene	U	1	<0.000201	mg/L	1.005	0.000200
1-Methylnaphthalene	U		<0.000201	mg/L	1.005	0.000200
Acenaphthylene	U	1	<0.000201	mg/L	1.005	0.000200
Acenaphthene	U	1	<0.000201	mg/L	1.005	0.000200
Dibenzofuran	U	1	<0.000201	mg/L	1.005	0.000200
Fluorene	U	1	<0.000201	mg/L	1.005	0.000200
Anthracene	U	1	<0.000201	mg/L	1.005	0.000200
Phenanthrene	U	1	<0.000201	mg/L	1.005	0.000200
Fluoranthene	U	1	<0.000201	mg/L	1.005	0.000200
Pyrene	U	1	<0.000201	mg/L	1.005	0.000200
Benzo(a)anthracene	U	1	<0.000201	mg/L	1.005	0.000200
Chrysene	Qs,U	1	<0.000201	mg/L	1.005	0.000200
Benzo(b)fluoranthene	U	1	<0.000201	mg/L	1.005	0.000200
Benzo(k)fluoranthene	U	1	<0.000201	mg/L	1.005	0.000200
Benzo(a)pyrene	Qs,U	1	<0.000201	mg/L	1.005	0.000200
Indeno(1,2,3-cd)pyrene	U	1	<0.000201	mg/L	1.005	0.000200
Dibenzo(a,h)anthracene	U	1	<0.000201	mg/L	1.005	0.000200
Benzo(g,h,i)perylene	U	1	<0.000201	mg/L	1.005	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0569	mg/L	1.005	0.0800	71	40 - 110
2-Fluorobiphenyl			0.0537	mg/L	1.005	0.0800	67	50 - 110
Terphenyl-d14			0.0634	mg/L	1.005	0.0800	79	50 - 135

Method Blanks

Method Blank (1) QC Batch: 97626

QC Batch: 97626 | Date Analyzed: 2012-12-19 | Analyzed By: YG
Prep Batch: 82716 | QC Preparation: 2012-12-19 | Prepared By: YG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		2	<0.000200	mg/L	0.001
Toluene		2	<0.000300	mg/L	0.001
Ethylbenzene		2	<0.000400	mg/L	0.001
Xylene		2	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0983	mg/L	1	0.100	98	75.7 - 109
4-Bromofluorobenzene (4-BFB)			0.0935	mg/L	1	0.100	94	68.1 - 109

Method Blank (1) QC Batch: 97677

QC Batch: 97677 | Date Analyzed: 2012-12-26 | Analyzed By: MN
Prep Batch: 82752 | QC Preparation: 2012-12-19 | Prepared By: MN

Parameter	Flag	Cert	MDL Result	Units	RL
Naphthalene		1	<0.000121	mg/L	0.0002
2-Methylnaphthalene		1	<0.0000913	mg/L	0.0002
1-Methylnaphthalene			<0.000109	mg/L	0.0002
Acenaphthylene		1	<0.000100	mg/L	0.0002
Acenaphthene		1	<0.000122	mg/L	0.0002
Dibenzofuran		1	<0.000108	mg/L	0.0002
Fluorene		1	<0.000100	mg/L	0.0002
Anthracene		1	<0.0000791	mg/L	0.0002
Phenanthrene		1	<0.0000824	mg/L	0.0002
Fluoranthene		1	<0.000124	mg/L	0.0002
Pyrene		1	<0.0000691	mg/L	0.0002
Benzo(a)anthracene		1	<0.000101	mg/L	0.0002
Chrysene		1	<0.0000769	mg/L	0.0002
Benzo(b)fluoranthene		1	<0.0000813	mg/L	0.0002
Benzo(k)fluoranthene		1	<0.0000790	mg/L	0.0002
Benzo(a)pyrene		1	<0.0000701	mg/L	0.0002

continued . . .

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
Indeno(1,2,3-cd)pyrene		1	<0.0000770	mg/L	0.0002
Dibenzo(a,h)anthracene		1	<0.0000851	mg/L	0.0002
Benzo(g,h,i)perylene		1	<0.0000798	mg/L	0.0002

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0744	mg/L	1	0.0800	93	40 - 110
2-Fluorobiphenyl			0.0744	mg/L	1	0.0800	93	50 - 110
Terphenyl-d14			0.0765	mg/L	1	0.0800	96	50 - 135

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 97626 | Date Analyzed: 2012-12-19 | Analyzed By: YG
Prep Batch: 82716 | QC Preparation: 2012-12-19 | Prepared By: YG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	0.0995	mg/L	1	0.100	<0.000200	100	80.5 - 108
Toluene		2	0.0978	mg/L	1	0.100	<0.000300	98	81.6 - 104
Ethylbenzene		2	0.0983	mg/L	1	0.100	<0.000400	98	70.6 - 108
Xylene		2	0.284	mg/L	1	0.300	<0.000400	95	79.2 - 104

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		2	0.0990	mg/L	1	0.100	<0.000200	99	80.5 - 108	0	20
Toluene		2	0.0978	mg/L	1	0.100	<0.000300	98	81.6 - 104	0	20
Ethylbenzene		2	0.0958	mg/L	1	0.100	<0.000400	96	70.6 - 108	3	20
Xylene		2	0.282	mg/L	1	0.300	<0.000400	94	79.2 - 104	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)	0.0965	0.0980	mg/L	1	0.100	96	98	75 - 110
4-Bromofluorobenzene (4-BFB)	0.0938	0.0945	mg/L	1	0.100	94	94	66.2 - 115

Laboratory Control Spike (LCS-1)

QC Batch: 97677 | Date Analyzed: 2012-12-26 | Analyzed By: MN
Prep Batch: 82752 | QC Preparation: 2012-12-19 | Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1	0.0663	mg/L	1	0.0800	<0.000121	83	40 - 100
2-Methylnaphthalene		1	0.0636	mg/L	1	0.0800	<0.0000913	80	45 - 105
1-Methylnaphthalene			0.0618	mg/L	1	0.0800	<0.000109	77	70 - 130
Acenaphthylene		1	0.0711	mg/L	1	0.0800	<0.000100	89	50 - 105
Acenaphthene		1	0.0680	mg/L	1	0.0800	<0.000122	85	45 - 110

continued ...

control spikes continued . . .

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dibenzofuran		1	0.0608	mg/L	1	0.0800	<0.000108	76	55 - 105
Fluorene		1	0.0702	mg/L	1	0.0800	<0.000100	88	50 - 110
Anthracene		1	0.0637	mg/L	1	0.0800	<0.0000791	80	55 - 110
Phenanthrene		1	0.0699	mg/L	1	0.0800	<0.0000824	87	50 - 115
Fluoranthene		1	0.0633	mg/L	1	0.0800	<0.000124	79	55 - 115
Pyrene		1	0.0527	mg/L	1	0.0800	<0.0000691	66	50 - 130
Benzo(a)anthracene		1	0.0533	mg/L	1	0.0800	<0.000101	67	55 - 110
Chrysene	Qs	Qs	1	0.0889	mg/L	1	0.0800	<0.0000769	111	55 - 110
Benzo(b)fluoranthene		1	0.0389	mg/L	1	0.0800	<0.0000813	49	45 - 120
Benzo(k)fluoranthene		1	0.0443	mg/L	1	0.0800	<0.0000790	55	45 - 125
Benzo(a)pyrene	Qs	Qs	1	0.0423	mg/L	1	0.0800	<0.0000701	53	55 - 110
Indeno(1,2,3-cd)pyrene		1	0.0470	mg/L	1	0.0800	<0.0000770	59	45 - 125
Dibenzo(a,h)anthracene		1	0.0709	mg/L	1	0.0800	<0.0000851	89	40 - 125
Benzo(g,h,i)perylene		1	0.0454	mg/L	1	0.0800	<0.0000798	57	40 - 125

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene		1	0.0670	mg/L	1	0.0800	<0.000121	84	40 - 100	1	20
2-Methylnaphthalene		1	0.0654	mg/L	1	0.0800	<0.0000913	82	45 - 105	3	20
1-Methylnaphthalene			0.0640	mg/L	1	0.0800	<0.000109	80	70 - 130	4	20
Acenaphthylene		1	0.0707	mg/L	1	0.0800	<0.000100	88	50 - 105	1	20
Acenaphthene		1	0.0672	mg/L	1	0.0800	<0.000122	84	45 - 110	1	20
Dibenzofuran		1	0.0601	mg/L	1	0.0800	<0.000108	75	55 - 105	1	20
Fluorene		1	0.0696	mg/L	1	0.0800	<0.000100	87	50 - 110	1	20
Anthracene		1	0.0624	mg/L	1	0.0800	<0.0000791	78	55 - 110	2	20
Phenanthrene		1	0.0694	mg/L	1	0.0800	<0.0000824	87	50 - 115	1	20
Fluoranthene		1	0.0622	mg/L	1	0.0800	<0.000124	78	55 - 115	2	20
Pyrene		1	0.0609	mg/L	1	0.0800	<0.0000691	76	50 - 130	14	20
Benzo(a)anthracene		1	0.0614	mg/L	1	0.0800	<0.000101	77	55 - 110	14	20
Chrysene	Qs	Qs	1	0.102	mg/L	1	0.0800	<0.0000769	128	55 - 110	14	20
Benzo(b)fluoranthene		1	0.0378	mg/L	1	0.0800	<0.0000813	47	45 - 120	3	20
Benzo(k)fluoranthene		1	0.0439	mg/L	1	0.0800	<0.0000790	55	45 - 125	1	20
Benzo(a)pyrene	Qs	Qs	1	0.0419	mg/L	1	0.0800	<0.0000701	52	55 - 110	1	20
Indeno(1,2,3-cd)pyrene		1	0.0471	mg/L	1	0.0800	<0.0000770	59	45 - 125	0	20
Dibenzo(a,h)anthracene		1	0.0685	mg/L	1	0.0800	<0.0000851	86	40 - 125	3	20
Benzo(g,h,i)perylene		1	0.0444	mg/L	1	0.0800	<0.0000798	56	40 - 125	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	0.0510	0.0524	mg/L	1	0.0800	64	66	40 - 110
2-Fluorobiphenyl	0.0570	0.0569	mg/L	1	0.0800	71	71	50 - 110
Terphenyl-d14	0.0460	0.0534	mg/L	1	0.0800	58	67	50 - 135

Matrix Spike (MS-1) Spiked Sample: 316516

QC Batch: 97626 | Date Analyzed: 2012-12-19 | Analyzed By: YG
Prep Batch: 82716 | QC Preparation: 2012-12-19 | Prepared By: YG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	0.101	mg/L	1	0.100	0.0042	97	25.7 - 139
Toluene		2	0.0959	mg/L	1	0.100	<0.000300	96	32.7 - 134
Ethylbenzene		2	0.0950	mg/L	1	0.100	<0.000400	95	45.9 - 120
Xylene		2	0.278	mg/L	1	0.300	<0.000400	93	34.9 - 128

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		2	0.100	mg/L	1	0.100	0.0042	96	25.7 - 139	1	20
Toluene		2	0.0945	mg/L	1	0.100	<0.000300	94	32.7 - 134	2	20
Ethylbenzene		2	0.0946	mg/L	1	0.100	<0.000400	95	45.9 - 120	0	20
Xylene		2	0.276	mg/L	1	0.300	<0.000400	92	34.9 - 128	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)	0.101	0.0990	mg/L	1	0.1	101	99	68.7 - 114
4-Bromofluorobenzene (4-BFB)	0.0957	0.0932	mg/L	1	0.1	96	93	56.6 - 123

Calibration Standards

Standard (CCV-1)

QC Batch: 97626 | Date Analyzed: 2012-12-19 | Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.0988	99	80 - 120	2012-12-19
Toluene		2	mg/L	0.100	0.0969	97	80 - 120	2012-12-19
Ethylbenzene		2	mg/L	0.100	0.0961	96	80 - 120	2012-12-19
Xylene		2	mg/L	0.300	0.282	94	80 - 120	2012-12-19

Standard (CCV-2)

QC Batch: 97626 | Date Analyzed: 2012-12-19 | Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.0988	99	80 - 120	2012-12-19
Toluene		2	mg/L	0.100	0.0957	96	80 - 120	2012-12-19
Ethylbenzene		2	mg/L	0.100	0.0958	96	80 - 120	2012-12-19
Xylene		2	mg/L	0.300	0.278	93	80 - 120	2012-12-19

Standard (CCV-3)

QC Batch: 97626 | Date Analyzed: 2012-12-19 | Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/L	0.100	0.0984	98	80 - 120	2012-12-19
Toluene		2	mg/L	0.100	0.0971	97	80 - 120	2012-12-19
Ethylbenzene		2	mg/L	0.100	0.0971	97	80 - 120	2012-12-19
Xylene		2	mg/L	0.300	0.284	95	80 - 120	2012-12-19

Standard (CCV-1)

QC Batch: 97677 | Date Analyzed: 2012-12-26 | Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	59.9	100	80 - 120	2012-12-26
2-Methylnaphthalene		1	mg/L	60.0	57.8	96	80 - 120	2012-12-26
1-Methylnaphthalene			mg/L	60.0	58.8	98	80 - 120	2012-12-26
Acenaphthylene		1	mg/L	60.0	53.4	89	80 - 120	2012-12-26
Acenaphthene		1	mg/L	60.0	54.7	91	80 - 120	2012-12-26
Dibenzofuran		1	mg/L	60.0	60.9	102	80 - 120	2012-12-26
Fluorene		1	mg/L	60.0	56.6	94	80 - 120	2012-12-26
Anthracene		1	mg/L	60.0	54.7	91	80 - 120	2012-12-26
Phenanthrene		1	mg/L	60.0	58.6	98	80 - 120	2012-12-26
Fluoranthene		1	mg/L	60.0	57.2	95	80 - 120	2012-12-26
Pyrene		1	mg/L	60.0	60.6	101	80 - 120	2012-12-26
Benzo(a)anthracene		1	mg/L	60.0	60.7	101	80 - 120	2012-12-26
Chrysene		1	mg/L	60.0	61.1	102	80 - 120	2012-12-26
Benzo(b)fluoranthene		1	mg/L	60.0	54.2	90	80 - 120	2012-12-26
Benzo(k)fluoranthene		1	mg/L	60.0	55.3	92	80 - 120	2012-12-26
Benzo(a)pyrene		1	mg/L	60.0	57.5	96	80 - 120	2012-12-26
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	61.3	102	80 - 120	2012-12-26
Dibenzo(a,h)anthracene		1	mg/L	60.0	61.2	102	80 - 120	2012-12-26
Benzo(g,h,i)perylene		1	mg/L	60.0	61.0	102	80 - 120	2012-12-26

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			61.7	mg/L	1	60.0	103	-
2-Fluorobiphenyl			58.9	mg/L	1	60.0	98	-
Terphenyl-d14			64.6	mg/L	1	60.0	108	-

Standard (CCV-2)

QC Batch: 97677 | Date Analyzed: 2012-12-26 | Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	60.8	101	80 - 120	2012-12-26
2-Methylnaphthalene		1	mg/L	60.0	58.2	97	80 - 120	2012-12-26
1-Methylnaphthalene			mg/L	60.0	58.2	97	80 - 120	2012-12-26
Acenaphthylene		1	mg/L	60.0	53.9	90	80 - 120	2012-12-26
Acenaphthene		1	mg/L	60.0	55.7	93	80 - 120	2012-12-26

continued . . .

standard continued . . .

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dibenzofuran		1	mg/L	60.0	59.4	99	80 - 120	2012-12-26
Fluorene		1	mg/L	60.0	57.3	96	80 - 120	2012-12-26
Anthracene		1	mg/L	60.0	54.4	91	80 - 120	2012-12-26
Phenanthrene		1	mg/L	60.0	58.4	97	80 - 120	2012-12-26
Fluoranthene		1	mg/L	60.0	57.7	96	80 - 120	2012-12-26
Pyrene		1	mg/L	60.0	60.7	101	80 - 120	2012-12-26
Benzo(a)anthracene		1	mg/L	60.0	59.9	100	80 - 120	2012-12-26
Chrysene		1	mg/L	60.0	58.6	98	80 - 120	2012-12-26
Benzo(b)fluoranthene		1	mg/L	60.0	53.8	90	80 - 120	2012-12-26
Benzo(k)fluoranthene		1	mg/L	60.0	55.7	93	80 - 120	2012-12-26
Benzo(a)pyrene		1	mg/L	60.0	57.8	96	80 - 120	2012-12-26
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	61.5	102	80 - 120	2012-12-26
Dibenzo(a,h)anthracene		1	mg/L	60.0	60.9	102	80 - 120	2012-12-26
Benzo(g,h,i)perylene		1	mg/L	60.0	61.0	102	80 - 120	2012-12-26

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			61.6	mg/L	1	60.0	103	-
2-Fluorobiphenyl			58.6	mg/L	1	60.0	98	-
Terphenyl-d14			63.2	mg/L	1	60.0	105	-

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock
2	NELAP	T104704392-12-4	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

LAB Order ID # 12121302

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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Tel (432) 689-6301
Fax (432) 689-6313

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

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

Company Name: NOVA

Phone #: (432)

Address: (Street, City, Zip) 2057 Commerce Dr

Fax #:

Contact Person: Camille Bryant

E-mail:

Invoice to: (If different from above)

Project #: TNM-Monument 17

Project Name: Monument 17

Project Location (including state): NM

Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
316509	MW-5	3	Vials	X				X				X		12-12-12	1503
510	MW-8														1622
511	MW-4														1440
512	MW-7														1422
513	MW-9														1432
514	MW-3														1513
515	MW-1														1614
516	MW-2	4	1 liter												1601

LAB # (LAB USE ONLY)	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
316509		X																							
516					X																				

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
	NOVA	12-13-12	0800		TA	12/13/12	8:00
	TA	12/13/12	15:30				

INST 4.8 °C
OBS 4.8 °C
COR 4.8 °C

INST ____ °C
OBS ____ °C
COR ____ °C

INST 1.8 °C
OBS 3.6 °C
COR 2.8 °C

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

Log-in-Review

REMARKS: Midland - BTEX Lubbock - 8AH

- ☐ 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 # Cargo 28: 2843057 3

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TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 12, 2013

Work Order: 13020605

Project Location: New Mexico
Project Name: Monument #17
Project Number: NM-2008
SRS #: TNM-Monument 17

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
320346	MW-1	water	2013-02-05	14:44	2013-02-06
320347	MW-3	water	2013-02-05	14:29	2013-02-06
320348	MW-2	water	2013-02-05	14:55	2013-02-06

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

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

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

Report Contents

Case Narrative **3**

Analytical Report **4**
Sample 320346 (MW-1) 4
Sample 320347 (MW-3) 4
Sample 320348 (MW-2) 4

Method Blanks **6**
QC Batch 98837 - Method Blank (1) 6

Laboratory Control Spikes **7**
QC Batch 98837 - LCS (1) 7
QC Batch 98837 - MS (1) 7

Calibration Standards **9**
QC Batch 98837 - CCV (1) 9
QC Batch 98837 - CCV (2) 9
QC Batch 98837 - CCV (3) 9

Appendix **10**
Report Definitions 10
Laboratory Certifications 10
Standard Flags 10
Attachments 10

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2013-02-06 and assigned to work order 13020605. Samples for work order 13020605 were received intact without headspace and at a temperature of 4.9 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	83745	2013-02-11 at 12:00	98837	2013-02-11 at 12:00

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 13020605 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: 320346 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	98837	Date Analyzed:	2013-02-11	Analyzed By:	YG
Prep Batch:	83745	Sample Preparation:	2013-02-11	Prepared By:	YG

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

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr		0.116	mg/L	1	0.100	116	75.7 - 109
4-Bromofluorobenzene (4-BFB)				0.101	mg/L	1	0.100	101	68.1 - 109

Sample: 320347 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	98837	Date Analyzed:	2013-02-11	Analyzed By:	YG
Prep Batch:	83745	Sample Preparation:	2013-02-11	Prepared By:	YG

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Benzene		1	**0.00430**		mg/L	1	0.00100
Toluene	U	1	<0.00100		mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100		mg/L	1	0.00100
Xylene	U	1	<0.00100		mg/L	1	0.00100

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr		0.114	mg/L	1	0.100	114	75.7 - 109
4-Bromofluorobenzene (4-BFB)				0.101	mg/L	1	0.100	101	68.1 - 109

Sample: 320348 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	98837	Date Analyzed:	2013-02-11	Analyzed By:	YG
Prep Batch:	83745	Sample Preparation:	2013-02-11	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	**0.00270**	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr		0.115	mg/L	1	0.100	115	75.7 - 109
4-Bromofluorobenzene (4-BFB)				0.102	mg/L	1	0.100	102	68.1 - 109

Method Blanks

Method Blank (1) QC Batch: 98837

QC Batch:	98837	Date Analyzed:	2013-02-11	Analyzed By:	YG
Prep Batch:	83745	QC Preparation:	2013-02-11	Prepared By:	YG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	0.120	mg/L	1	0.100	120	75.7 - 109
4-Bromofluorobenzene (4-BFB)			0.103	mg/L	1	0.100	103	68.1 - 109

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 98837 | Date Analyzed: 2013-02-11 | Analyzed By: YG
Prep Batch: 83745 | QC Preparation: 2013-02-11 | Prepared By: YG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.108	mg/L	1	0.100	<0.000200	108	80 - 120
Toluene		1	0.109	mg/L	1	0.100	<0.000300	109	80 - 120
Ethylbenzene		1	0.113	mg/L	1	0.100	<0.000400	113	70.6 - 120
Xylene		1	0.349	mg/L	1	0.300	<0.00120	116	79.2 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.106	mg/L	1	0.100	<0.000200	106	80 - 120	2	20
Toluene		1	0.108	mg/L	1	0.100	<0.000300	108	80 - 120	1	20
Ethylbenzene		1	0.112	mg/L	1	0.100	<0.000400	112	70.6 - 120	1	20
Xylene		1	0.345	mg/L	1	0.300	<0.00120	115	79.2 - 120	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)	Qsr	Qsr	0.119	0.119	mg/L	1	0.100	119	119	75.7 - 109
4-Bromofluorobenzene (4-BFB)			0.106	0.106	mg/L	1	0.100	106	106	68.1 - 109

Matrix Spike (MS-1) Spiked Sample: 320217

QC Batch: 98837 | Date Analyzed: 2013-02-11 | Analyzed By: YG
Prep Batch: 83745 | QC Preparation: 2013-02-11 | Prepared By: YG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.107	mg/L	1	0.100	<0.000200	107	25.7 - 139
Toluene		1	0.108	mg/L	1	0.100	<0.000300	108	32.7 - 134
Ethylbenzene		1	0.113	mg/L	1	0.100	<0.000400	113	45.9 - 120
Xylene		1	0.346	mg/L	1	0.300	<0.00120	115	34.9 - 128

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.108	mg/L	1	0.100	<0.000200	108	25.7 - 139	1	20
Toluene		1	0.109	mg/L	1	0.100	<0.000300	109	32.7 - 134	1	20
Ethylbenzene		1	0.114	mg/L	1	0.100	<0.000400	114	45.9 - 120	1	20
Xylene		1	0.354	mg/L	1	0.300	<0.00120	118	34.9 - 128	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)	Qsr	Qsr	0.118	0.119	mg/L	1	0.1	118	119	75.7 - 109
4-Bromofluorobenzene (4-BFB)			0.104	0.105	mg/L	1	0.1	104	105	68.1 - 109

Calibration Standards

Standard (CCV-1)

QC Batch: 98837 | Date Analyzed: 2013-02-11 | Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.105	105	80 - 120	2013-02-11
Toluene		1	mg/L	0.100	0.107	107	80 - 120	2013-02-11
Ethylbenzene		1	mg/L	0.100	0.111	111	80 - 120	2013-02-11
Xylene		1	mg/L	0.300	0.343	114	80 - 120	2013-02-11

Standard (CCV-2)

QC Batch: 98837 | Date Analyzed: 2013-02-11 | Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.105	105	80 - 120	2013-02-11
Toluene		1	mg/L	0.100	0.106	106	80 - 120	2013-02-11
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2013-02-11
Xylene		1	mg/L	0.300	0.339	113	80 - 120	2013-02-11

Standard (CCV-3)

QC Batch: 98837 | Date Analyzed: 2013-02-11 | Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.106	106	80 - 120	2013-02-11
Toluene		1	mg/L	0.100	0.107	107	80 - 120	2013-02-11
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2013-02-11
Xylene		1	mg/L	0.300	0.345	115	80 - 120	2013-02-11

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-12-4	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

LAB Order ID # 13020605

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
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1 (888) 588-3443

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

Company Name: Nova
Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 Commerce Drive
Fax #: 432 520 7701
Contact Person: Camille Bryant
E-mail:
Invoice to: (If different from above)
Project #: TNM Monument 17
Project Name: Monument #17
Project Location (including state): New Mexico
Sampler Signature: Trent Bl

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
320346	MW-1	3	VOA	X				X				X		2/5/13	14:44 ~~14:29~~
347	MW-3	1	1	1				1				1		1	14:29
348	MW-2	1	1	1				1				1		1	14:55

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
	X																							
	1																							
	1																							

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Trent Bl	Nova	06Feb13	0924		TA	2/6/13	9:24	INST 1R-1
								OBS 49 °C
								COR 49 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ °C
								OBS ____ °C
								COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ °C
								OBS ____ °C
								COR ____ °C

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

REMARKS: Midland all

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

Carrier # Nova

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

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(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 31, 2013

Work Order: 13052402

Project Location: New Mexico
Project Name: Monument #17
Project Number: NM-2008
SRS #: TNM-Monument 17

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
330155	MW 9	water	2013-05-23	14:20	2013-05-24
330156	MW 1	water	2013-05-23	13:30	2013-05-24
330157	MW 2	water	2013-05-23	13:55	2013-05-24
330158	MW 3	water	2013-05-23	14:07	2013-05-24
330159	MW 7	water	2013-05-23	13:42	2013-05-24

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

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 20, 2013

Work Order: 13081407

Project Location: New Mexico
Project Name: Monument #17
Project Number: NM-2008
SRS #: TNM-Monument 17

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
338504	MW-1	water	2013-08-13	16:06	2013-08-14
338505	MW-2	water	2013-08-13	16:10	2013-08-14
338506	MW-3	water	2013-08-13	16:20	2013-08-14

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

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

Report Contents

Case Narrative **3**

Analytical Report **4**
Sample 338504 (MW-1) 4
Sample 338505 (MW-2) 4
Sample 338506 (MW-3) 4

Method Blanks **6**
QC Batch 104189 - Method Blank (1) 6

Laboratory Control Spikes **7**
QC Batch 104189 - LCS (1) 7
QC Batch 104189 - MS (1) 7

Calibration Standards **9**
QC Batch 104189 - CCV (1) 9
QC Batch 104189 - CCV (2) 9
QC Batch 104189 - CCV (3) 9

Appendix **10**
Report Definitions 10
Laboratory Certifications 10
Standard Flags 10
Attachments 10

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2013-08-14 and assigned to work order 13081407. Samples for work order 13081407 were received intact without headspace and at a temperature of 4.3 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	88281	2013-08-19 at 09:30	104189	2013-08-20 at 08:38

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 13081407 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: 338504 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	104189	Date Analyzed:	2013-08-20	Analyzed By:	KC
Prep Batch:	88281	Sample Preparation:	2013-08-19	Prepared By:	KC

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0933	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0935	mg/L	1	0.100	94	70 - 130

Sample: 338505 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	104189	Date Analyzed:	2013-08-20	Analyzed By:	KC
Prep Batch:	88281	Sample Preparation:	2013-08-19	Prepared By:	KC

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0875	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0890	mg/L	1	0.100	89	70 - 130

Sample: 338506 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	104189	Date Analyzed:	2013-08-20	Analyzed By:	KC
Prep Batch:	88281	Sample Preparation:	2013-08-19	Prepared By:	KC

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0871	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0902	mg/L	1	0.100	90	70 - 130

Method Blanks

Method Blank (1) QC Batch: 104189

QC Batch:	104189	Date Analyzed:	2013-08-20	Analyzed By:	KC
Prep Batch:	88281	QC Preparation:	2013-08-19	Prepared By:	KC

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0974	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0947	mg/L	1	0.100	95	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 104189 | Date Analyzed: 2013-08-20 | Analyzed By: KC
Prep Batch: 88281 | QC Preparation: 2013-08-19 | Prepared By: KC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.106	mg/L	1	0.100	<0.000200	106	70 - 130
Toluene		1	0.104	mg/L	1	0.100	<0.000300	104	70 - 130
Ethylbenzene		1	0.101	mg/L	1	0.100	<0.000400	101	70 - 130
Xylene		1	0.302	mg/L	1	0.300	<0.00120	101	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.108	mg/L	1	0.100	<0.000200	108	70 - 130	2	20
Toluene		1	0.107	mg/L	1	0.100	<0.000300	107	70 - 130	3	20
Ethylbenzene		1	0.103	mg/L	1	0.100	<0.000400	103	70 - 130	2	20
Xylene		1	0.306	mg/L	1	0.300	<0.00120	102	70 - 130	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0939	0.0971	mg/L	1	0.100	94	97	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0983	0.0997	mg/L	1	0.100	98	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 338504

QC Batch: 104189 | Date Analyzed: 2013-08-20 | Analyzed By: KC
Prep Batch: 88281 | QC Preparation: 2013-08-19 | Prepared By: KC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.112	mg/L	1	0.100	<0.000200	112	70 - 130
Toluene		1	0.109	mg/L	1	0.100	<0.000300	109	70 - 130
Ethylbenzene		1	0.106	mg/L	1	0.100	<0.000400	106	70 - 130
Xylene		1	0.312	mg/L	1	0.300	<0.00120	104	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.112	mg/L	1	0.100	<0.000200	112	70 - 130	0	20
Toluene		1	0.108	mg/L	1	0.100	<0.000300	108	70 - 130	1	20
Ethylbenzene		1	0.105	mg/L	1	0.100	<0.000400	105	70 - 130	1	20
Xylene		1	0.311	mg/L	1	0.300	<0.00120	104	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)	0.0918	0.0951	mg/L	1	0.1	92	95	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0978	0.0990	mg/L	1	0.1	98	99	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 104189 | Date Analyzed: 2013-08-20 | Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0850	85	80 - 120	2013-08-20
Toluene		1	mg/L	0.100	0.0838	84	80 - 120	2013-08-20
Ethylbenzene		1	mg/L	0.100	0.0818	82	80 - 120	2013-08-20
Xylene		1	mg/L	0.300	0.245	82	80 - 120	2013-08-20

Standard (CCV-2)

QC Batch: 104189 | Date Analyzed: 2013-08-20 | Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.106	106	80 - 120	2013-08-20
Toluene		1	mg/L	0.100	0.104	104	80 - 120	2013-08-20
Ethylbenzene		1	mg/L	0.100	0.100	100	80 - 120	2013-08-20
Xylene		1	mg/L	0.300	0.298	99	80 - 120	2013-08-20

Standard (CCV-3)

QC Batch: 104189 | Date Analyzed: 2013-08-20 | Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.105	105	80 - 120	2013-08-20
Toluene		1	mg/L	0.100	0.103	103	80 - 120	2013-08-20
Ethylbenzene		1	mg/L	0.100	0.100	100	80 - 120	2013-08-20
Xylene		1	mg/L	0.300	0.299	100	80 - 120	2013-08-20

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-12-4	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

LAB Order ID # 13081407

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
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Fax (806) 794-1298
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1 (888) 588-3443

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

Company Name: Nova
Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 commerce Dr
Fax #:
Contact Person: camille Bryant
E-mail:
Invoice to:
(If different from above)
Project #: TNM Monument 17
Project Name: Monument 17
Project Location (including state): new mexico
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
338504	MW-1	3	VOA	X				X				X		8/13/13	1606
505	MW-2	↓	↓	↓				↓				↓		↓	1610
506	MW-3	↓	↓	↓				↓				↓		↓	1620

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
	X																							
	X																							
	X																							

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
John Flores	Nova	8/14/13	807		TA	8/14/13	8:07	INST 4°C OBS 4°C COR 4°C
								INST ___°C OBS ___°C COR ___°C
								INST ___°C OBS ___°C COR ___°C

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

REMARKS: Rush 24 hr

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

Carrier #

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

ORIGINAL COPY



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

Report Contents

Case Narrative **4**

Analytical Report **5**
Sample 330155 (MW 9) . . . 5
Sample 330156 (MW 1) . . . 5
Sample 330157 (MW 2) . . . 5
Sample 330158 (MW 3) . . . 6
Sample 330159 (MW 7) . . . 6

Method Blanks **8**
QC Batch 101852 - Method Blank (1) . . . 8

Laboratory Control Spikes **9**
QC Batch 101852 - LCS (1) . . . 9
QC Batch 101852 - MS (1) . . . 9

Calibration Standards **11**
QC Batch 101852 - CCV (1) . . . 11
QC Batch 101852 - CCV (2) . . . 11
QC Batch 101852 - CCV (3) . . . 11

Appendix **12**
Report Definitions . . . 12
Laboratory Certifications . . . 12
Standard Flags . . . 12
Attachments . . . 12

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2013-05-24 and assigned to work order 13052402. Samples for work order 13052402 were received intact without headspace and at a temperature of 4.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	86299	2013-05-29 at 15:00	101852	2013-05-30 at 10:42

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 13052402 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: 330155 - MW 9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	101852	Date Analyzed:	2013-05-30	Analyzed By:	KC
Prep Batch:	86299	Sample Preparation:	2013-05-29	Prepared By:	KC

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0892	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0882	mg/L	1	0.100	88	70 - 130

Sample: 330156 - MW 1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	101852	Date Analyzed:	2013-05-30	Analyzed By:	KC
Prep Batch:	86299	Sample Preparation:	2013-05-29	Prepared By:	KC

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0888	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0889	mg/L	1	0.100	89	70 - 130

Sample: 330157 - MW 2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	101852	Date Analyzed:	2013-05-30	Analyzed By:	KC
Prep Batch:	86299	Sample Preparation:	2013-05-29	Prepared By:	KC

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0889	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0884	mg/L	1	0.100	88	70 - 130

Sample: 330158 - MW 3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	101852	Date Analyzed:	2013-05-30	Analyzed By:	KC
Prep Batch:	86299	Sample Preparation:	2013-05-29	Prepared By:	KC

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0877	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0884	mg/L	1	0.100	88	70 - 130

Sample: 330159 - MW 7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	101852	Date Analyzed:	2013-05-30	Analyzed By:	KC
Prep Batch:	86299	Sample Preparation:	2013-05-29	Prepared By:	KC

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0866	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0864	mg/L	1	0.100	86	70 - 130

Method Blanks

Method Blank (1) QC Batch: 101852

QC Batch:	101852	Date Analyzed:	2013-05-30	Analyzed By:	KC
Prep Batch:	86299	QC Preparation:	2013-05-29	Prepared By:	KC

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0909	mg/L	1	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0888	mg/L	1	0.100	89	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 101852 | Date Analyzed: 2013-05-30 | Analyzed By: KC
Prep Batch: 86299 | QC Preparation: 2013-05-29 | Prepared By: KC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0910	mg/L	1	0.100	<0.000200	91	70 - 130
Toluene		1	0.0940	mg/L	1	0.100	<0.000300	94	70 - 130
Ethylbenzene		1	0.0936	mg/L	1	0.100	<0.000400	94	70 - 130
Xylene		1	0.274	mg/L	1	0.300	<0.00120	91	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0905	mg/L	1	0.100	<0.000200	90	70 - 130	1	20
Toluene		1	0.0937	mg/L	1	0.100	<0.000300	94	70 - 130	0	20
Ethylbenzene		1	0.0933	mg/L	1	0.100	<0.000400	93	70 - 130	0	20
Xylene		1	0.273	mg/L	1	0.300	<0.00120	91	70 - 130	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0903	0.0882	mg/L	1	0.100	90	88	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0942	0.0922	mg/L	1	0.100	94	92	70 - 130

Matrix Spike (MS-1) Spiked Sample:

QC Batch: 101852 | Date Analyzed: 2013-05-30 | Analyzed By: KC
Prep Batch: 86299 | QC Preparation: 2013-05-29 | Prepared By: KC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0815	mg/L	1	0.100	<0.000200	82	70 - 130
Toluene		1	0.0836	mg/L	1	0.100	<0.000300	84	70 - 130
Ethylbenzene		1	0.0821	mg/L	1	0.100	<0.000400	82	70 - 130
Xylene		1	0.239	mg/L	1	0.300	<0.00120	80	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0776	mg/L	1	0.100	<0.000200	78	70 - 130	5	20
Toluene		1	0.0782	mg/L	1	0.100	<0.000300	78	70 - 130	7	20
Ethylbenzene		1	0.0769	mg/L	1	0.100	<0.000400	77	70 - 130	6	20
Xylene		1	0.224	mg/L	1	0.300	<0.00120	75	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)	0.0820	0.0797	mg/L	1	0.1	82	80	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0846	0.0821	mg/L	1	0.1	85	82	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 101852 | Date Analyzed: 2013-05-30 | Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0912	91	80 - 120	2013-05-30
Toluene		1	mg/L	0.100	0.0948	95	80 - 120	2013-05-30
Ethylbenzene		1	mg/L	0.100	0.0947	95	80 - 120	2013-05-30
Xylene		1	mg/L	0.300	0.277	92	80 - 120	2013-05-30

Standard (CCV-2)

QC Batch: 101852 | Date Analyzed: 2013-05-30 | Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0950	95	80 - 120	2013-05-30
Toluene		1	mg/L	0.100	0.0986	99	80 - 120	2013-05-30
Ethylbenzene		1	mg/L	0.100	0.0981	98	80 - 120	2013-05-30
Xylene		1	mg/L	0.300	0.286	95	80 - 120	2013-05-30

Standard (CCV-3)

QC Batch: 101852 | Date Analyzed: 2013-05-30 | Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0919	92	80 - 120	2013-05-30
Toluene		1	mg/L	0.100	0.0952	95	80 - 120	2013-05-30
Ethylbenzene		1	mg/L	0.100	0.0958	96	80 - 120	2013-05-30
Xylene		1	mg/L	0.300	0.280	93	80 - 120	2013-05-30

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-12-4	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

LAB Order ID # 13052402

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Lubbock, Texas 79424
Tel (806) 794-1296
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1 (800) 378-1296

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200 East Sunset Rd., Suite E
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1 (888) 588-3443

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

Company Name: Nova
Phone #: 432/520-7720
Address: (Street, City, Zip) 2057 Commerce Drive
Fax #:
Contact Person: Camille Bryant
E-mail:
Invoice to:
(If different from above)
Project #: TNM - Monument 17
Project Name: Monument 17
Project Location (including state): NM
Sampler Signature: Preston Bf

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
330155	MW 9	3	VOA	X				X				X		5/23/13	1420
156	MW 1														1330
157	MW 2														1355
158	MW 3														1407
159	MW 7														1342

Analysis	
MTBE 8021 / 602 / 8260 / 624	
BTEX 8021 / 602 / 8260 / 624	X
TPH 418.1 / TX1005 / TX1005 Ext(C35)	
TPH 8015 GRO / DRO / TVHC	
PAH 8270 / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol. 8260 / 624	
GC/MS Semi. Vol. 8270 / 625	
PCB's 8082 / 608	
Pesticides 8081 / 608	
BOD, TSS, pH	
Moisture Content	
Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Turn Around Time if different from standard	
Hold	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
[signature]	Nova	5/24/13	0815	[signature]	TA	5/24/13	8:15	INST 4.1 °C, OBS 4.1 °C, COR 4.0 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ °C, OBS ____ °C, COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ °C, OBS ____ °C, COR ____ °C

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

REMARKS: Midland - all

- [ ] 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 # Courier

ORIGINAL COPY

TRACEANALYSIS, INC.

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: November 21, 2013

Work Order: 13111401

Project Location: New Mexico
Project Name: Monument #17
Project Number: NM-2008
SRS #: TNM-Monument 17

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
346527	MW-4	water	2013-11-13	14:15	2013-11-14
346528	MW-5	water	2013-11-13	14:27	2013-11-14
346529	MW-8	water	2013-11-13	14:35	2013-11-14
346530	MW-7	water	2013-11-13	14:50	2013-11-14
346531	MW-9	water	2013-11-13	15:02	2013-11-14
346532	MW-1	water	2013-11-13	15:20	2013-11-14
346533	MW-2	water	2013-11-13	15:35	2013-11-14
346534	MW-3	water	2013-11-13	15:46	2013-11-14

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

This report consists of a total of 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



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

Report Contents

Case Narrative **4**

Analytical Report **5**
Sample 346527 (MW-4) . . . 5
Sample 346528 (MW-5) . . . 5
Sample 346529 (MW-8) . . . 5
Sample 346530 (MW-7) . . . 6
Sample 346531 (MW-9) . . . 6
Sample 346532 (MW-1) . . . 7
Sample 346533 (MW-2) . . . 7
Sample 346534 (MW-3) . . . 8

Method Blanks **9**
QC Batch 106864 - Method Blank (1) . . . 9
QC Batch 106930 - Method Blank (1) . . . 9

Laboratory Control Spikes **10**
QC Batch 106864 - LCS (1) . . . 10
QC Batch 106930 - LCS (1) . . . 10
QC Batch 106864 - MS (1) . . . 11
QC Batch 106930 - MS (1) . . . 11

Calibration Standards **13**
QC Batch 106864 - CCV (1) . . . 13
QC Batch 106864 - CCV (2) . . . 13
QC Batch 106864 - CCV (3) . . . 13
QC Batch 106930 - CCV (1) . . . 13
QC Batch 106930 - CCV (2) . . . 14
QC Batch 106930 - CCV (3) . . . 14

Appendix **15**
Report Definitions . . . 15
Laboratory Certifications . . . 15
Standard Flags . . . 15
Attachments . . . 15

Case Narrative

Samples for project Monument #17 were received by TraceAnalysis, Inc. on 2013-11-14 and assigned to work order 13111401. Samples for work order 13111401 were received intact without headspace and at a temperature of 4.2 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	90464	2013-11-18 at 09:22	106864	2013-11-19 at 05:00
BTEX	S 8021B	90494	2013-11-19 at 10:50	106930	2013-11-20 at 15:25

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13111401 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: 346527 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	106864	Date Analyzed:	2013-11-19	Analyzed By:	AK
Prep Batch:	90464	Sample Preparation:	2013-11-18	Prepared By:	AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.106	mg/L	1	0.100	106	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0950	mg/L	1	0.100	95	70 - 130

Sample: 346528 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	106864	Date Analyzed:	2013-11-19	Analyzed By:	AK
Prep Batch:	90464	Sample Preparation:	2013-11-18	Prepared By:	AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.107	mg/L	1	0.100	107	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0952	mg/L	1	0.100	95	70 - 130

Sample: 346529 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	106864	Date Analyzed:	2013-11-19	Analyzed By:	AK
Prep Batch:	90464	Sample Preparation:	2013-11-18	Prepared By:	AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.108	mg/L	1	0.100	108	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0945	mg/L	1	0.100	94	70 - 130

Sample: 346530 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	106930	Date Analyzed:	2013-11-20	Analyzed By:	AK
Prep Batch:	90494	Sample Preparation:	2013-11-19	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Toluene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Xylene	Qr,Qs,U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.100	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0896	mg/L	1	0.100	90	70 - 130

Sample: 346531 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	106864	Date Analyzed:	2013-11-19	Analyzed By:	AK
Prep Batch:	90464	Sample Preparation:	2013-11-18	Prepared By:	AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.105	mg/L	1	0.100	105	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0941	mg/L	1	0.100	94	70 - 130

Sample: 346532 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	106864	Date Analyzed:	2013-11-19	Analyzed By:	AK
Prep Batch:	90464	Sample Preparation:	2013-11-18	Prepared By:	AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.105	mg/L	1	0.100	105	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0918	mg/L	1	0.100	92	70 - 130

Sample: 346533 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	106930	Date Analyzed:	2013-11-20	Analyzed By:	AK
Prep Batch:	90494	Sample Preparation:	2013-11-19	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr,Qs	1	**0.00470**	mg/L	1	0.00100
Toluene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Xylene	Qr,Qs,U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	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)			0.0864	mg/L	1	0.100	86	70 - 130

Sample: 346534 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	106864	Date Analyzed:	2013-11-19	Analyzed By:	AK
Prep Batch:	90464	Sample Preparation:	2013-11-18	Prepared By:	AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.101	mg/L	1	0.100	101	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0922	mg/L	1	0.100	92	70 - 130

Method Blanks

Method Blank (1) QC Batch: 106864

QC Batch: 106864 | Date Analyzed: 2013-11-19 | Analyzed By: AK
Prep Batch: 90464 | QC Preparation: 2013-11-18 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000200	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000400	mg/L	0.001
Xylene		1	<0.00120	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.104	mg/L	1	0.100	104	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0915	mg/L	1	0.100	92	70 - 130

Method Blank (1) QC Batch: 106930

QC Batch: 106930 | Date Analyzed: 2013-11-20 | Analyzed By: AK
Prep Batch: 90494 | QC Preparation: 2013-11-19 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000600	mg/L	0.001
Toluene		1	<0.000400	mg/L	0.001
Ethylbenzene		1	<0.000600	mg/L	0.001
Xylene		1	<0.00130	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0980	mg/L	1	0.100	98	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0857	mg/L	1	0.100	86	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 106864 | Date Analyzed: 2013-11-19 | Analyzed By: AK
Prep Batch: 90464 | QC Preparation: 2013-11-18 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0952	mg/L	1	0.100	<0.000200	95	70 - 130
Toluene		1	0.0947	mg/L	1	0.100	<0.000300	95	70 - 130
Ethylbenzene		1	0.0918	mg/L	1	0.100	<0.000400	92	70 - 130
Xylene		1	0.276	mg/L	1	0.300	<0.00120	92	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0988	mg/L	1	0.100	<0.000200	99	70 - 130	4	20
Toluene		1	0.0983	mg/L	1	0.100	<0.000300	98	70 - 130	4	20
Ethylbenzene		1	0.0950	mg/L	1	0.100	<0.000400	95	70 - 130	3	20
Xylene		1	0.287	mg/L	1	0.300	<0.00120	96	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)	0.0985	0.100	mg/L	1	0.100	98	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0931	0.0947	mg/L	1	0.100	93	95	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 106930 | Date Analyzed: 2013-11-20 | Analyzed By: AK
Prep Batch: 90494 | QC Preparation: 2013-11-19 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.104	mg/L	1	0.100	<0.000600	104	70 - 130
Toluene		1	0.102	mg/L	1	0.100	<0.000400	102	70 - 130
Ethylbenzene		1	0.107	mg/L	1	0.100	<0.000600	107	70 - 130
Xylene		1	0.325	mg/L	1	0.300	<0.00130	108	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.104	mg/L	1	0.100	<0.000600	104	70 - 130	0	20
Toluene		1	0.105	mg/L	1	0.100	<0.000400	105	70 - 130	3	20
Ethylbenzene		1	0.111	mg/L	1	0.100	<0.000600	111	70 - 130	4	20
Xylene		1	0.337	mg/L	1	0.300	<0.00130	112	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)	0.101	0.102	mg/L	1	0.100	101	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.105	0.105	mg/L	1	0.100	105	105	70 - 130

Matrix Spike (MS-1) Spiked Sample: 346445

QC Batch: 106864 | Date Analyzed: 2013-11-19 | Analyzed By: AK
Prep Batch: 90464 | QC Preparation: 2013-11-18 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.339	mg/L	1	0.100	0.234	105	70 - 130
Toluene		1	0.129	mg/L	1	0.100	0.03	99	70 - 130
Ethylbenzene		1	0.182	mg/L	1	0.100	0.0808	101	70 - 130
Xylene		1	0.316	mg/L	1	0.300	0.0231	98	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.346	mg/L	1	0.100	0.234	112	70 - 130	2	20
Toluene		1	0.141	mg/L	1	0.100	0.03	111	70 - 130	9	20
Ethylbenzene		1	0.186	mg/L	1	0.100	0.0808	105	70 - 130	2	20
Xylene		1	0.325	mg/L	1	0.300	0.0231	101	70 - 130	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0934	0.122	mg/L	1	0.1	93	122	70 - 130
4-Bromofluorobenzene (4-BFB)	0.102	0.104	mg/L	1	0.1	102	104	70 - 130

Matrix Spike (MS-1) Spiked Sample: 346766

QC Batch: 106930 | Date Analyzed: 2013-11-20 | Analyzed By: AK
Prep Batch: 90494 | QC Preparation: 2013-11-19 | Prepared By: AK

Param		F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	Qs	Qs	1	0.0535	mg/L	1	0.100	0.0018	52	70 - 130
Toluene	Qs	Qs	1	0.0497	mg/L	1	0.100	<0.000400	50	70 - 130
Ethylbenzene	Qs	Qs	1	0.0497	mg/L	1	0.100	<0.000600	50	70 - 130
Xylene	Qs	Qs	1	0.151	mg/L	1	0.300	<0.00130	50	70 - 130

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

Param		F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	Qr	Qr	1	0.0802	mg/L	1	0.100	0.0018	78	70 - 130	40	20
Toluene	Qr	Qr	1	0.0774	mg/L	1	0.100	<0.000400	77	70 - 130	44	20
Ethylbenzene	Qr	Qr	1	0.0807	mg/L	1	0.100	<0.000600	81	70 - 130	48	20
Xylene	Qr	Qr	1	0.245	mg/L	1	0.300	<0.00130	82	70 - 130	48	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)	0.101	0.101	mg/L	1	0.1	101	101	70 - 130
4-Bromofluorobenzene (4-BFB)	0.100	0.102	mg/L	1	0.1	100	102	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 106864 | Date Analyzed: 2013-11-19 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.100	100	80 - 120	2013-11-19
Toluene		1	mg/L	0.100	0.0988	99	80 - 120	2013-11-19
Ethylbenzene		1	mg/L	0.100	0.0949	95	80 - 120	2013-11-19
Xylene		1	mg/L	0.300	0.286	95	80 - 120	2013-11-19

Standard (CCV-2)

QC Batch: 106864 | Date Analyzed: 2013-11-19 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0888	89	80 - 120	2013-11-19
Toluene		1	mg/L	0.100	0.0874	87	80 - 120	2013-11-19
Ethylbenzene		1	mg/L	0.100	0.0841	84	80 - 120	2013-11-19
Xylene		1	mg/L	0.300	0.253	84	80 - 120	2013-11-19

Standard (CCV-3)

QC Batch: 106864 | Date Analyzed: 2013-11-19 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.100	100	80 - 120	2013-11-19
Toluene		1	mg/L	0.100	0.0989	99	80 - 120	2013-11-19
Ethylbenzene		1	mg/L	0.100	0.0956	96	80 - 120	2013-11-19
Xylene		1	mg/L	0.300	0.287	96	80 - 120	2013-11-19

Standard (CCV-1)

QC Batch: 106930 | Date Analyzed: 2013-11-20 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2013-11-20
Toluene		1	mg/L	0.100	0.100	100	80 - 120	2013-11-20
Ethylbenzene		1	mg/L	0.100	0.106	106	80 - 120	2013-11-20
Xylene		1	mg/L	0.300	0.321	107	80 - 120	2013-11-20

Standard (CCV-2)

QC Batch: 106930 | Date Analyzed: 2013-11-20 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2013-11-20
Toluene		1	mg/L	0.100	0.101	101	80 - 120	2013-11-20
Ethylbenzene		1	mg/L	0.100	0.106	106	80 - 120	2013-11-20
Xylene		1	mg/L	0.300	0.322	107	80 - 120	2013-11-20

Standard (CCV-3)

QC Batch: 106930 | Date Analyzed: 2013-11-20 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0975	98	80 - 120	2013-11-20
Toluene		1	mg/L	0.100	0.0956	96	80 - 120	2013-11-20
Ethylbenzene		1	mg/L	0.100	0.101	101	80 - 120	2013-11-20
Xylene		1	mg/L	0.300	0.304	101	80 - 120	2013-11-20

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-13-7	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

LAB Order ID # 13111401

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

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

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: Nova
Phone #: 4325207720
Address: (Street, City, Zip) 2057 commerce Dr
Fax #:
Contact Person: Curt stanley
E-mail:
Invoice to: (If different from above)
Project #: TNM - monument 17
Project Name: monument 17
Project Location (including state): nm
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
346521	mw-4	3	VOA	X				X				X		11/13/13	1415
528	mw-5														1427
529	mw-8														1435
530	mw-7														1450
531	mw-9														1502
532	mw-1														1520
533	mw-2														1535
534	mw-3														1546

ANALYSIS REQUEST	
MTBE 8021 / 602 / 8260 / 624	
BTEX 8021 / 602 / 8260 / 624	X
TPH 418.1 / TX1005 / TX1005 Ext(C35)	
TPH 8015 GRO / DRO / TVHC	
PAH 8270 / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol. 8260 / 624	
GC/MS Semi. Vol. 8270 / 625	
PCB's 8082 / 608	
Pesticides 8081 / 608	
BOD, TSS, pH	
Moisture Content	
Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Turn Around Time if different from standard	
Hold	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	NOVA	11/14/13	0858		TA	11/14/13	8:58	INST 4.3 °C OBS 4.3 °C COR 4.2 °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ °C OBS ____ °C COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ____ °C OBS ____ °C COR ____ °C

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

REMARKS: Midland add

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

Carrier #

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

ORIGINAL COPY

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/17/00	3,607.16	-	19.95	0.00	3,587.21
MW - 1	04/10/00	3,607.16	-	20.08	0.00	3,587.08
MW - 1	08/31/00	3,607.16	-	19.71	0.00	3,587.45
MW - 1	12/18/00	3,607.16	-	19.89	0.00	3,587.27
MW - 1	03/13/01	3,607.16	-	19.88	0.00	3,587.28
MW - 1	05/30/01	3,607.16	-	19.88	0.00	3,587.28
MW - 1	09/12/01	3,607.16	-	20.05	0.00	3,587.11
MW - 1	11/17/01	3,607.16	-	20.03	0.00	3,587.13
MW - 1	02/12/02	3,607.16	-	20.10	0.00	3,587.06
MW - 1	05/15/02	3,607.16	-	20.02	0.00	3,587.14
MW - 1	09/12/02	3,607.16	-	20.09	0.00	3,587.07
MW - 1	11/18/02	3,607.16	-	19.91	0.00	3,587.25
MW - 1	02/17/03	3,607.16	-	19.98	0.00	3,587.18
MW - 1	05/19/03	3,607.16	-	20.17	0.00	3,586.99
MW - 1	08/25/03	3,607.16	-	20.32	0.00	3,586.84
MW - 1	11/21/03	3,607.16	-	20.35	0.00	3,586.81
MW - 1	02/23/04	3,607.16	-	20.32	0.00	3,586.84
MW - 1	05/13/04	3,607.16	-	19.33	0.00	3,587.83
MW - 1	08/26/04	3,607.16	-	19.87	0.00	3,587.29
MW - 1	12/13/04	3,607.16	-	17.85	0.00	3,589.31
MW - 1	*03/14/05*	3,607.16	-	18.84	0.00	3,588.32
MW - 1	*06/24/05*	3,607.16	-	19.21	0.00	3,587.95
MW - 1	*09/08/05*	3,607.16	-	19.19	0.00	3,587.97
MW - 1	*12/01/05*	3,607.16	-	19.38	0.00	3,587.78
MW - 1	*03/07/06*	3,607.16	-	19.52	0.00	3,587.64
MW - 1	*06/06/06*	3,607.16	-	19.64	0.00	3,587.52
MW - 1	07/19/06	3,607.16	-	19.59	0.00	3,587.57
MW - 1	07/27/06	3,607.16	-	19.63	0.00	3,587.53
MW - 1	08/09/06	3,607.16	-	20.62	0.00	3,586.54
MW - 1	08/18/06	3,607.16	-	19.14	0.00	3,588.02
MW - 1	*09/12/06*	3,607.16	-	17.98	0.00	3,589.18
MW - 1	10/31/06	3,607.16	sheen	18.35	0.00	3,588.81
MW - 1	11/15/06	3,607.16	sheen	18.30	0.00	3,588.86
MW - 1	*12/13/06*	3,607.16	-	18.52	0.00	3,588.64
MW - 1	*03/16/07*	3,607.16	-	19.24	0.00	3,587.92
MW - 1	*05/16/07*	3,607.16	-	19.31	0.00	3,587.85
MW - 1	*08/20/07*	3,607.16	-	19.44	0.00	3,587.72
MW - 1	*11/27/07*	3,607.16	-	19.51	0.00	3,587.65
MW - 1	*02/22/08*	3,607.16	-	19.57	0.00	3,587.59
MW - 1	*05/30/08*	3,607.16	-	19.71	0.00	3,587.45
MW - 1	*08/22/08*	3,607.16	-	19.74	0.00	3,587.42
MW - 1	*11/13/08*	3,607.16	-	19.53	0.00	3,587.63
MW - 1	*02/12/09*	3,607.16	-	19.64	0.00	3,587.52
MW - 1	*05/14/09*	3,607.16	-	19.13	0.00	3,588.03
MW - 1	*08/06/09*	3,607.16	-	19.58	0.00	3,587.58

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	*11/05/09*	3,607.16	-	19.66	0.00	3,587.50
MW - 1	01/12/10	3,607.16	-	19.64	0.00	3,587.52
MW - 1	*02/05/10*	3,607.16	-	19.71	0.00	3,587.45
MW - 1	*05/03/10*	3,607.16	-	19.67	0.00	3,587.49
MW - 1	*08/09/10*	3,607.16	-	18.99	0.00	3,588.17
MW - 1	*11/08/10*	3,607.16	-	19.00	0.00	3,588.16
MW - 1	*02/17/11*	3,607.16	-	19.02	0.00	3,588.14
MW - 1	*05/16/11*	3,607.16	-	19.05	0.00	3,588.11
MW - 1	05/19/11	3,607.16	-	19.65	0.00	3,587.51
MW - 1	05/27/11	3,607.16	-	19.71	0.00	3,587.45
MW - 1	06/10/11	3,607.16	-	19.68	0.00	3,587.48
MW - 1	06/24/11	3,607.16	-	19.65	0.00	3,587.51
MW - 1	07/01/11	3,607.16	-	19.66	0.00	3,587.50
MW - 1	*08/08/11*	3,607.16	-	19.07	0.00	3,588.09
MW - 1	*11/11/11*	3,607.16	-	19.79	0.00	3,587.37
MW - 1	01/03/12	3,607.16	-	19.80	0.00	3,587.36
MW - 1	01/23/12	3,607.16	-	19.82	0.00	3,587.34
MW - 1	*02/08/12*	3,607.16	-	19.82	0.00	3,587.34
MW - 1	03/02/12	3,607.16	-	20.82	0.00	3,586.34
MW - 1	03/20/12	3,607.16	-	19.86	0.00	3,587.30
MW - 1	04/02/12	3,607.16	-	19.83	0.00	3,587.33
MW - 1	04/19/12	3,607.16	-	19.82	0.00	3,587.34
MW - 1	*05/07/12*	3,607.16	-	19.87	0.00	3,587.29
MW - 1	05/21/12	3,607.16	-	19.81	0.00	3,587.35
MW - 1	06/06/12	3,607.16	-	19.85	0.00	3,587.31
MW - 1	06/18/12	3,607.16	-	19.86	0.00	3,587.30
MW - 1	07/02/12	3,607.16	-	19.88	0.00	3,587.28
MW - 1	07/16/12	3,607.16	-	19.86	0.00	3,587.30
MW - 1	08/01/12	3,607.16	-	19.84	0.00	3,587.32
MW - 1	08/14/12	3,607.16	-	19.87	0.00	3,587.29
MW - 1	08/21/12	3,607.16	-	19.88	0.00	3,587.28
MW - 1	09/10/12	3,607.16	-	19.90	0.00	3,587.26
MW - 1	09/19/12	3,607.16	-	19.92	0.00	3,587.24
MW - 1	10/01/12	3,607.16	-	19.91	0.00	3,587.25
MW - 1	10/15/12	3,607.16	-	19.89	0.00	3,587.27
MW - 1	10/29/12	3,607.16	-	19.89	0.00	3,587.27
MW - 1	12/04/12	3,607.16	-	19.88	0.00	3,587.28
MW - 1	12/10/12	3,607.16	-	19.89	0.00	3,587.27
MW - 1	12/12/12	3,607.16	-	19.87	0.00	3,587.29
MW - 1	12/27/12	3,607.16	-	19.89	0.00	3,587.27
MW - 1	*02/05/13*	3,607.16	-	19.90	0.00	3,587.26
MW - 1	*03/04/13*	3,607.16	-	19.79	0.00	3,587.37
MW - 1	03/26/13	3,607.16	-	19.93	0.00	3,587.23
MW - 1	04/10/13	3,607.16	-	19.92	0.00	3,587.24
MW - 1	04/17/13	3,607.16	-	19.92	0.00	3,587.24

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	*05/23/13*	3,607.16	-	19.94	0.00	3,587.22
MW - 1	05/29/13	3,607.16	-	19.96	0.00	3,587.20
MW - 1	06/13/13	3,607.16	-	19.98	0.00	3,587.18
MW - 1	06/25/13	3,607.16	-	19.96	0.00	3,587.20
MW - 1	07/09/13	3,607.16	-	20.00	0.00	3,587.16
MW - 1	07/16/13	3,607.16	-	20.04	0.00	3,587.12
MW - 1	07/25/13	3,607.16	-	19.58	0.00	3,587.58
MW - 1	*08/13/13*	3,607.16	-	19.62	0.00	3,587.54
MW - 1	09/12/13	3,607.16	-	19.72	0.00	3,587.44
MW - 1	09/25/13	3,607.16	-	19.73	0.00	3,587.43
MW - 1	10/09/13	3,607.16	-	19.78	0.00	3,587.38
MW - 1	10/25/13	3,607.16	-	19.80	0.00	3,587.36
MW - 1	11/13/13	3,607.16	-	19.79	0.00	3,587.37
MW - 1	11/27/13	3,607.16	-	19.81	0.00	3,587.35
MW - 1	12/10/13	3,607.16	-	19.84	0.00	3,587.32
MW - 1	12/24/13	3,607.16	-	19.82	0.00	3,587.34
MW - 2	01/17/00	3,607.08	-	19.82	0.00	3,587.26
MW - 2	04/10/00	3,607.08	-	19.94	0.00	3,587.14
MW - 2	08/31/00	3,607.08	-	19.57	0.00	3,587.51
MW - 2	12/18/00	3,607.08	-	19.77	0.00	3,587.31
MW - 2	03/13/01	3,607.08	-	19.75	0.00	3,587.33
MW - 2	05/30/01	3,607.08	-	19.75	0.00	3,587.33
MW - 2	09/12/01	3,607.08	-	19.92	0.00	3,587.16
MW - 2	11/17/01	3,607.08	-	19.88	0.00	3,587.20
MW - 2	02/12/02	3,607.08	-	19.96	0.00	3,587.12
MW - 2	05/15/02	3,607.08	-	19.88	0.00	3,587.20
MW - 2	09/12/02	3,607.08	-	19.93	0.00	3,587.15
MW - 2	11/18/02	3,607.08	-	19.77	0.00	3,587.31
MW - 2	02/17/03	3,607.08	-	19.83	0.00	3,587.25
MW - 2	05/19/03	3,607.08	-	20.03	0.00	3,587.05
MW - 2	08/25/03	3,607.08	-	20.19	0.00	3,586.89
MW - 2	11/21/03	3,607.08	-	20.20	0.00	3,586.88
MW - 2	02/23/04	3,607.08	-	20.18	0.00	3,586.90
MW - 2	05/13/04	3,607.08	-	19.15	0.00	3,587.93
MW - 2	08/26/04	3,607.08	-	19.72	0.00	3,587.36
MW - 2	12/13/04	3,607.08	-	17.44	0.00	3,589.64
MW - 2	*03/14/05*	3,607.08	-	18.61	0.00	3,588.47
MW - 2	*06/24/05*	3,607.08	-	19.02	0.00	3,588.06
MW - 2	*09/08/05*	3,607.08	-	19.02	0.00	3,588.06
MW - 2	*12/01/05*	3,607.08	-	19.20	0.00	3,587.88
MW - 2	*03/07/06*	3,607.08	-	19.36	0.00	3,587.72
MW - 2	*06/06/06*	3,607.08	-	19.49	0.00	3,587.59
MW - 2	*09/12/06*	3,607.08	-	17.65	0.00	3,589.43
MW - 2	*12/13/06*	3,607.08	-	18.50	0.00	3,588.58

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	*03/16/07*	3,607.08	-	19.06	0.00	3,588.02
MW - 2	*05/16/07*	3,607.08	-	19.17	0.00	3,587.91
MW - 2	*08/20/07*	3,607.08	-	19.27	0.00	3,587.81
MW - 2	*11/27/07*	3,607.08	-	19.34	0.00	3,587.74
MW - 2	*02/22/08*	3,607.08	-	19.43	0.00	3,587.65
MW - 2	*05/30/08*	3,607.08	-	19.55	0.00	3,587.53
MW - 2	*08/22/08*	3,607.08	-	19.58	0.00	3,587.50
MW - 2	*11/13/08*	3,607.08	-	19.38	0.00	3,587.70
MW - 2	*02/12/09*	3,607.08	-	19.51	0.00	3,587.57
MW - 2	*05/14/09*	3,607.08	-	19.95	0.00	3,587.13
MW - 2	*08/06/09*	3,607.08	-	19.43	0.00	3,587.65
MW - 2	*11/05/09*	3,607.08	-	19.50	0.00	3,587.58
MW - 2	01/12/10	3,607.08	-	19.51	0.00	3,587.57
MW - 2	*02/05/10*	3,607.08	-	19.56	0.00	3,587.52
MW - 2	*05/03/10*	3,607.08	-	19.50	0.00	3,587.58
MW - 2	*08/09/10*	3,607.08	-	18.72	0.00	3,588.36
MW - 2	*11/08/10*	3,607.08	-	18.73	0.00	3,588.35
MW - 2	*02/17/11*	3,607.08	-	18.76	0.00	3,588.32
MW - 2	*05/16/11*	3,607.08	-	18.76	0.00	3,588.32
MW - 2	05/19/11	3,607.08	-	19.48	0.00	3,587.60
MW - 2	05/27/11	3,607.08	-	19.53	0.00	3,587.55
MW - 2	06/10/11	3,607.08	-	19.54	0.00	3,587.54
MW - 2	06/24/11	3,607.08	-	19.55	0.00	3,587.53
MW - 2	07/01/11	3,607.08	-	19.61	0.00	3,587.47
MW - 2	07/12/11	3,607.08	-	19.64	0.00	3,587.44
MW - 2	08/04/11	3,607.08	-	19.71	0.00	3,587.37
MW - 2	*08/08/11*	3,607.08	-	18.76	0.00	3,588.32
MW - 2	*11/11/11*	3,607.08	-	19.65	0.00	3,587.43
MW - 2	01/03/12	3,607.08	-	19.64	0.00	3,587.44
MW - 2	01/23/12	3,607.08	-	19.67	0.00	3,587.41
MW - 2	*02/08/12*	3,607.08	-	19.68	0.00	3,587.40
MW - 2	03/02/12	3,607.08	-	19.69	0.00	3,587.39
MW - 2	03/20/12	3,607.08	-	19.71	0.00	3,587.37
MW - 2	04/02/12	3,607.08	-	19.69	0.00	3,587.39
MW - 2	04/19/12	3,607.08	-	19.68	0.00	3,587.40
MW - 2	*05/07/12*	3,607.08	-	19.72	0.00	3,587.36
MW - 2	05/21/12	3,607.08	-	19.70	0.00	3,587.38
MW - 2	06/06/12	3,607.08	-	19.74	0.00	3,587.34
MW - 2	06/18/12	3,607.08	-	19.71	0.00	3,587.37
MW - 2	07/02/12	3,607.08	-	19.72	0.00	3,587.36
MW - 2	07/16/12	3,607.08	-	19.71	0.00	3,587.37
MW - 2	08/01/12	3,607.08	-	19.72	0.00	3,587.36
MW - 2	08/14/12	3,607.08	-	19.74	0.00	3,587.34
MW - 2	08/21/12	3,607.08	-	19.24	0.00	3,587.84
MW - 2	09/10/12	3,607.08	-	19.78	0.00	3,587.30

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 2	09/19/12	3,607.08	-	19.79	0.00	3,587.29
MW - 2	10/01/12	3,607.08	-	19.78	0.00	3,587.30
MW - 2	10/15/12	3,607.08	-	19.74	0.00	3,587.34
MW - 2	10/29/12	3,607.08	-	19.74	0.00	3,587.34
MW - 2	12/04/12	3,607.08	-	19.73	0.00	3,587.35
MW - 2	12/10/12	3,607.08	-	19.75	0.00	3,587.33
MW - 2	12/12/12	3,607.08	-	19.73	0.00	3,587.35
MW - 2	12/27/12	3,607.08	-	19.74	0.00	3,587.34
MW - 2	*02/05/13*	3,607.08	-	19.74	0.00	3,587.34
MW - 2	*03/04/13*	3,607.08	-	22.54	0.00	3,584.54
MW - 2	03/26/13	3,607.08	-	19.78	0.00	3,587.30
MW - 2	04/10/13	3,607.08	-	19.79	0.00	3,587.29
MW - 2	04/17/13	3,607.08	-	19.78	0.00	3,587.30
MW - 2	*05/23/13*	3,607.08	-	19.79	0.00	3,587.29
MW - 2	05/29/13	3,607.08	-	19.83	0.00	3,587.25
MW - 2	06/13/13	3,607.08	-	19.82	0.00	3,587.26
MW - 2	06/25/13	3,607.08	-	19.86	0.00	3,587.22
MW - 2	07/09/13	3,607.08	-	19.89	0.00	3,587.19
MW - 2	07/16/13	3,607.08	-	19.88	0.00	3,587.20
MW - 2	07/25/13	3,607.08	-	19.42	0.00	3,587.66
MW - 2	*08/13/13*	3,607.08	-	19.46	0.00	3,587.62
MW - 2	09/12/13	3,607.08	-	19.56	0.00	3,587.52
MW - 2	09/25/13	3,607.08	-	19.58	0.00	3,587.50
MW - 2	10/09/13	3,607.08	-	19.64	0.00	3,587.44
MW - 2	10/25/13	3,607.08	-	19.66	0.00	3,587.42
MW - 2	11/13/13	3,607.08	-	19.64	0.00	3,587.44
MW - 2	11/27/13	3,607.08	-	19.68	0.00	3,587.40
MW - 2	12/10/13	3,607.08	-	19.69	0.00	3,587.39
MW - 2	12/24/13	3,607.08	-	19.69	0.00	3,587.39
MW - 3	01/17/00	3,608.43	-	20.92	0.00	3,587.51
MW - 3	04/10/00	3,608.43	-	21.06	0.00	3,587.37
MW - 3	08/31/00	3,608.43	-	20.64	0.00	3,587.79
MW - 3	12/18/00	3,608.43	-	20.86	0.00	3,587.57
MW - 3	03/13/01	3,608.43	-	20.85	0.00	3,587.58
MW - 3	05/30/01	3,608.43	-	20.93	0.00	3,587.50
MW - 3	09/12/01	3,608.43	-	21.04	0.00	3,587.39
MW - 3	11/17/01	3,608.43	-	21.02	0.00	3,587.41
MW - 3	02/12/02	3,608.43	-	21.09	0.00	3,587.34
MW - 3	05/15/02	3,608.43	-	21.04	0.00	3,587.39
MW - 3	09/12/02	3,608.43	-	21.07	0.00	3,587.36
MW - 3	11/18/02	3,608.43	-	20.89	0.00	3,587.54
MW - 3	02/17/03	3,608.43	-	21.02	0.00	3,587.41
MW - 3	05/19/03	3,608.43	-	21.17	0.00	3,587.26
MW - 3	08/25/03	3,608.43	-	21.27	0.00	3,587.16

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	11/21/03	3,608.43	-	21.33	0.00	3,587.10
MW - 3	02/23/04	3,608.43	-	21.34	0.00	3,587.09
MW - 3	05/13/04	3,608.43	-	20.20	0.00	3,588.23
MW - 3	08/26/04	3,608.43	-	20.87	0.00	3,587.56
MW - 3	12/13/04	3,608.43	-	18.08	0.00	3,590.35
MW - 3	*03/14/05*	3,608.43	-	19.41	0.00	3,589.02
MW - 3	*06/24/05*	3,608.43	-	19.99	0.00	3,588.44
MW - 3	*09/08/05*	3,608.43	-	19.97	0.00	3,588.46
MW - 3	*12/01/05*	3,608.43	-	20.22	0.00	3,588.21
MW - 3	*03/07/06*	3,608.43	-	20.42	0.00	3,588.01
MW - 3	*06/06/06*	3,608.43	-	20.55	0.00	3,587.88
MW - 3	07/19/06	3,608.43	-	20.53	0.00	3,587.90
MW - 3	07/27/06	3,608.43	-	20.56	0.00	3,587.87
MW - 3	08/09/06	3,608.43	-	20.50	0.00	3,587.93
MW - 3	08/18/06	3,608.43	-	19.98	0.00	3,588.45
MW - 3	*09/12/06*	3,608.43	-	18.46	0.00	3,589.97
MW - 3	10/31/06	3,608.43	sheen	18.83	0.00	3,589.60
MW - 3	11/15/06	3,608.43	sheen	18.78	0.00	3,589.65
MW - 3	*12/13/06*	3,608.43	-	19.37	0.00	3,589.06
MW - 3	*03/16/07*	3,608.43	-	20.03	0.00	3,588.40
MW - 3	*05/16/07*	3,608.43	-	20.16	0.00	3,588.27
MW - 3	*08/20/07*	3,608.43	-	20.31	0.00	3,588.12
MW - 3	*11/27/07*	3,608.43	-	20.36	0.00	3,588.07
MW - 3	*02/22/08*	3,608.43	-	20.53	0.00	3,587.90
MW - 3	*05/30/08*	3,608.43	-	20.63	0.00	3,587.80
MW - 3	*08/22/08*	3,608.43	-	20.65	0.00	3,587.78
MW - 3	*11/13/08*	3,608.43	-	20.43	0.00	3,588.00
MW - 3	*02/12/09*	3,608.43	-	20.58	0.00	3,587.85
MW - 3	*05/14/09*	3,608.43	-	20.65	0.00	3,587.78
MW - 3	*08/06/09*	3,608.43	-	20.48	0.00	3,587.95
MW - 3	*11/05/09*	3,608.43	-	20.58	0.00	3,587.85
MW - 3	01/12/09	3,608.43	-	20.57	0.00	3,587.86
MW - 3	*02/05/10*	3,608.43	-	20.64	0.00	3,587.79
MW - 3	*05/03/10*	3,608.43	-	20.58	0.00	3,587.85
MW - 3	*08/09/10*	3,608.43	-	19.58	0.00	3,588.85
MW - 3	*11/08/10*	3,608.43	-	19.56	0.00	3,588.87
MW - 3	*02/17/11*	3,608.43	-	19.56	0.00	3,588.87
MW - 3	*05/16/11*	3,608.43	-	19.56	0.00	3,588.87
MW - 3	05/19/11	3,608.43	-	20.56	0.00	3,587.87
MW - 3	05/27/11	3,608.43	-	21.65	0.00	3,586.78
MW - 3	06/10/11	3,608.43	-	20.60	0.00	3,587.83
MW - 3	06/24/11	3,608.43	-	20.64	0.00	3,587.79
MW - 3	07/01/11	3,608.43	-	20.70	0.00	3,587.73
MW - 3	07/12/11	3,608.43	-	20.78	0.00	3,587.65
MW - 3	08/04/11	3,608.43	-	20.72	0.00	3,587.71

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	*08/08/11*	3,608.43	-	19.52	0.00	3,588.91
MW - 3	*11/11/11*	3,608.43	-	20.77	0.00	3,587.66
MW - 3	01/03/12	3,608.43	-	20.74	0.00	3,587.69
MW - 3	01/23/12	3,608.43	-	20.77	0.00	3,587.66
MW - 3	*02/08/12*	3,608.43	-	20.80	0.00	3,587.63
MW - 3	03/02/12	3,608.43	-	20.80	0.00	3,587.63
MW - 3	03/20/12	3,608.43	-	20.82	0.00	3,587.61
MW - 3	04/02/12	3,608.43	-	20.79	0.00	3,587.64
MW - 3	04/19/12	3,608.43	-	20.82	0.00	3,587.61
MW - 3	*05/07/12*	3,608.43	-	20.83	0.00	3,587.60
MW - 3	05/21/12	3,608.43	-	20.79	0.00	3,587.64
MW - 3	06/06/12	3,608.43	-	20.81	0.00	3,587.62
MW - 3	06/18/12	3,608.43	-	20.82	0.00	3,587.61
MW - 3	07/02/12	3,608.43	-	20.84	0.00	3,587.59
MW - 3	07/16/12	3,608.43	-	20.82	0.00	3,587.61
MW - 3	08/01/12	3,608.43	-	20.79	0.00	3,587.64
MW - 3	08/14/12	3,608.43	-	20.85	0.00	3,587.58
MW - 3	08/21/12	3,608.43	-	20.87	0.00	3,587.56
MW - 3	09/10/12	3,608.43	-	20.89	0.00	3,587.54
MW - 3	09/19/12	3,608.43	-	20.91	0.00	3,587.52
MW - 3	10/01/12	3,608.43	-	20.91	0.00	3,587.52
MW - 3	10/15/12	3,608.43	-	20.88	0.00	3,587.55
MW - 3	10/29/12	3,608.43	-	20.88	0.00	3,587.55
MW - 3	12/04/12	3,608.43	-	20.86	0.00	3,587.57
MW - 3	12/10/12	3,608.43	-	20.87	0.00	3,587.56
MW - 3	12/12/12	3,608.43	-	20.84	0.00	3,587.59
MW - 3	12/27/12	3,608.43	-	20.88	0.00	3,587.55
MW - 3	*02/05/13*	3,608.43	-	20.88	0.00	3,587.55
MW - 3	*03/04/13*	3,608.43	-	20.73	0.00	3,587.70
MW - 3	03/26/13	3,608.43	-	20.91	0.00	3,587.52
MW - 3	04/10/13	3,608.43	-	20.92	0.00	3,587.51
MW - 3	04/17/13	3,608.43	-	20.91	0.00	3,587.52
MW - 3	*05/23/13*	3,608.43	-	20.93	0.00	3,587.50
MW - 3	05/29/13	3,608.43	-	20.95	0.00	3,587.48
MW - 3	06/13/13	3,608.43	-	20.94	0.00	3,587.49
MW - 3	06/25/13	3,608.43	-	20.94	0.00	3,587.49
MW - 3	07/09/13	3,608.43	-	20.97	0.00	3,587.46
MW - 3	07/16/13	3,608.43	-	21.01	0.00	3,587.42
MW - 3	07/25/13	3,608.43	-	20.50	0.00	3,587.93
MW - 3	*08/13/13*	3,608.43	-	20.57	0.00	3,587.86
MW - 3	09/12/13	3,608.43	-	20.67	0.00	3,587.76
MW - 3	09/25/13	3,608.43	-	20.69	0.00	3,587.74
MW - 3	10/09/13	3,608.43	-	20.75	0.00	3,587.68
MW - 3	10/25/13	3,608.43	-	20.80	0.00	3,587.63
MW - 3	11/13/13	3,608.43	-	20.76	0.00	3,587.67

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	11/27/13	3,608.43	-	20.79	0.00	3,587.64
MW - 3	12/10/13	3,608.43	-	20.81	0.00	3,587.62
MW - 3	12/24/13	3,608.43	-	19.81	0.00	3,588.62
MW - 4	01/17/00	3,606.12	-	19.02	0.00	3,587.10
MW - 4	04/10/00	3,606.12	-	19.12	0.00	3,587.00
MW - 4	08/31/00	3,606.12	-	18.80	0.00	3,587.32
MW - 4	12/18/00	3,606.12	-	18.97	0.00	3,587.15
MW - 4	03/13/01	3,606.12	-	18.93	0.00	3,587.19
MW - 4	05/30/01	3,606.12	-	18.94	0.00	3,587.18
MW - 4	09/12/01	3,606.12	-	19.11	0.00	3,587.01
MW - 4	11/17/01	3,606.12	-	19.10	0.00	3,587.02
MW - 4	02/12/02	3,606.12	-	19.13	0.00	3,586.99
MW - 4	05/15/02	3,606.12	-	19.08	0.00	3,587.04
MW - 4	09/12/02	3,606.12	-	19.12	0.00	3,587.00
MW - 4	11/18/02	3,606.12	-	18.98	0.00	3,587.14
MW - 4	02/17/03	3,606.12	-	19.09	0.00	3,587.03
MW - 4	05/19/03	3,606.12	-	19.21	0.00	3,586.91
MW - 4	08/25/03	3,606.12	-	19.37	0.00	3,586.75
MW - 4	11/21/03	3,606.12	-	19.37	0.00	3,586.75
MW - 4	02/23/04	3,606.12	-	19.36	0.00	3,586.76
MW - 4	05/13/04	3,606.12	-	18.48	0.00	3,587.64
MW - 4	08/26/04	3,606.12	-	18.94	0.00	3,587.18
MW - 4	12/13/04	3,606.12	-	16.95	0.00	3,589.17
MW - 4	*03/14/05*	3,606.12	-	18.00	0.00	3,588.12
MW - 4	*06/24/05*	3,606.12	-	18.34	0.00	3,587.78
MW - 4	*09/08/05*	3,606.12	-	18.32	0.00	3,587.80
MW - 4	*12/01/05*	3,606.12	-	18.47	0.00	3,587.65
MW - 4	*03/07/06*	3,606.12	-	18.62	0.00	3,587.50
MW - 4	*06/06/06*	3,606.12	-	18.72	0.00	3,587.40
MW - 4	*09/12/06*	3,606.12	-	17.08	0.00	3,589.04
MW - 4	*12/13/06*	3,606.12	-	17.69	0.00	3,588.43
MW - 4	*03/16/07*	3,606.12	-	18.35	0.00	3,587.77
MW - 4	*05/16/07*	3,606.12	-	18.42	0.00	3,587.70
MW - 4	*08/20/07*	3,606.12	-	18.53	0.00	3,587.59
MW - 4	*11/27/07*	3,606.12	-	18.58	0.00	3,587.54
MW - 4	*02/22/08*	3,606.12	-	18.68	0.00	3,587.44
MW - 4	*05/30/08*	3,606.12	-	18.77	0.00	3,587.35
MW - 4	*08/22/08*	3,606.12	-	18.78	0.00	3,587.34
MW - 4	*11/13/08*	3,606.12	-	18.61	0.00	3,587.51
MW - 4	*02/12/09*	3,606.12	-	18.72	0.00	3,587.40
MW - 4	*05/14/09*	3,606.12	-	23.83	0.00	3,582.29
MW - 4	*08/06/09*	3,606.12	-	18.64	0.00	3,587.48
MW - 4	*11/05/09*	3,606.12	-	18.74	0.00	3,587.38
MW - 4	01/12/10	3,606.12	-	18.73	0.00	3,587.39

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 4	*02/05/10*	3,606.12	-	18.79	0.00	3,587.33
MW - 4	*05/03/10*	3,606.12	-	18.74	0.00	3,587.38
MW - 4	*08/09/10*	3,606.12	-	18.10	0.00	3,588.02
MW - 4	*11/08/10*	3,606.12	-	18.12	0.00	3,588.00
MW - 4	*02/17/11*	3,606.12	-	18.12	0.00	3,588.00
MW - 4	*05/16/11*	3,606.12	-	18.12	0.00	3,588.00
MW - 4	*08/08/11*	3,606.12	-	18.12	0.00	3,588.00
MW - 4	*11/11/11*	3,606.12	-	18.86	0.00	3,587.26
MW - 4	*02/08/12*	3,606.12	-	18.88	0.00	3,587.24
MW - 4	*05/07/12*	3,606.12	-	18.93	0.00	3,587.19
MW - 4	*08/01/12*	3,606.12	-	18.92	0.00	3,587.20
MW - 4	*12/12/12*	3,606.12	-	18.93	0.00	3,587.19
MW - 4	02/05/13	3,606.12	-	18.96	0.00	3,587.16
MW - 4	*05/23/13*	3,606.12	-	18.99	0.00	3,587.13
MW - 4	08/13/13	3,606.12	-	18.70	0.00	3,587.42
MW - 4	11/13/13	3,606.12	-	18.85	0.00	3,587.27
MW - 5	01/17/00	3,610.17	-	22.55	0.00	3,587.62
MW - 5	04/10/00	3,610.17	-	22.64	0.00	3,587.53
MW - 5	08/31/00	3,610.17	-	22.22	0.00	3,587.95
MW - 5	12/18/00	3,610.17	-	22.44	0.00	3,587.73
MW - 5	03/13/01	3,610.17	-	22.43	0.00	3,587.74
MW - 5	05/30/01	3,610.17	-	22.50	0.00	3,587.67
MW - 5	09/12/01	3,610.17	-	22.64	0.00	3,587.53
MW - 5	11/17/01	3,610.17	-	22.63	0.00	3,587.54
MW - 5	02/12/02	3,610.17	-	22.67	0.00	3,587.50
MW - 5	05/15/02	3,610.17	-	22.64	0.00	3,587.53
MW - 5	09/12/02	3,610.17	-	22.67	0.00	3,587.50
MW - 5	11/18/02	3,610.17	-	22.49	0.00	3,587.68
MW - 5	02/17/03	3,610.17	-	22.65	0.00	3,587.52
MW - 5	05/19/03	3,610.17	-	22.77	0.00	3,587.40
MW - 5	08/25/03	3,610.17	-	22.94	0.00	3,587.23
MW - 5	11/21/03	3,610.17	-	22.95	0.00	3,587.22
MW - 5	02/23/04	3,610.17	-	22.94	0.00	3,587.23
MW - 5	05/13/04	3,610.17	-	21.78	0.00	3,588.39
MW - 5	08/26/04	3,610.17	-	22.44	0.00	3,587.73
MW - 5	12/13/04	3,610.17	-	19.33	0.00	3,590.84
MW - 5	*03/14/05*	3,610.17	-	20.85	0.00	3,589.32
MW - 5	*06/24/05*	3,610.17	-	21.48	0.00	3,588.69
MW - 5	*09/08/05*	3,610.17	-	21.47	0.00	3,588.70
MW - 5	*12/01/05*	3,610.17	-	21.77	0.00	3,588.40
MW - 5	*03/07/06*	3,610.17	-	21.99	0.00	3,588.18
MW - 5	*06/06/06*	3,610.17	-	22.15	0.00	3,588.02
MW - 5	*09/12/06*	3,610.17	-	19.85	0.00	3,590.32
MW - 5	*12/13/06*	3,610.17	-	20.85	0.00	3,589.32

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	*03/16/07*	3,610.17	-	21.59	0.00	3,588.58
MW - 5	*05/16/07*	3,610.17	-	21.74	0.00	3,588.43
MW - 5	*08/20/07*	3,610.17	-	21.88	0.00	3,588.29
MW - 5	*11/27/07*	3,610.17	-	21.98	0.00	3,588.19
MW - 5	*02/22/08*	3,610.17	-	21.11	0.00	3,589.06
MW - 5	*05/30/08*	3,610.17	-	22.24	0.00	3,587.93
MW - 5	*08/22/08*	3,610.17	-	22.29	0.00	3,587.88
MW - 5	*11/13/08*	3,610.17	-	22.04	0.00	3,588.13
MW - 5	*02/12/09*	3,610.17	-	22.25	0.00	3,587.92
MW - 5	*05/14/09*	3,610.17	-	20.55	0.00	3,589.62
MW - 5	*08/06/09*	3,610.17	-	22.09	0.00	3,588.08
MW - 5	*11/05/09*	3,610.17	-	22.18	0.00	3,587.99
MW - 5	01/12/10	3,610.17	-	22.19	0.00	3,587.98
MW - 5	*02/08/10*	3,610.17	-	22.28	0.00	3,587.89
MW - 5	*05/03/10*	3,610.17	-	22.19	0.00	3,587.98
MW - 5	*08/09/10*	3,610.17	-	21.05	0.00	3,589.12
MW - 5	*11/08/10*	3,610.17	-	21.05	0.00	3,589.12
MW - 5	*02/17/11*	3,610.17	-	21.04	0.00	3,589.13
MW - 5	*05/16/11*	3,610.17	-	21.06	0.00	3,589.11
MW - 5	*08/08/11*	3,610.17	-	21.08	0.00	3,589.09
MW - 5	*11/11/11*	3,610.17	-	22.33	0.00	3,587.84
MW - 5	*02/08/12*	3,610.17	-	22.37	0.00	3,587.80
MW - 5	*05/07/12*	3,610.17	-	22.41	0.00	3,587.76
MW - 5	*08/01/12*	3,610.17	-	22.42	0.00	3,587.75
MW - 5	*12/12/12*	3,610.17	-	22.44	0.00	3,587.73
MW - 5	02/05/13	3,610.17	-	22.47	0.00	3,587.70
MW - 5	*05/23/13*	3,610.17	-	22.51	0.00	3,587.66
MW - 5	08/13/13	3,610.17	-	22.14	0.00	3,588.03
MW - 5	11/13/13	3,610.17	-	22.34	0.00	3,587.83
MW - 6	01/17/00	3,604.44	-	17.63	0.00	3,586.81
MW - 6	04/10/00	3,604.44	-	17.72	0.00	3,586.72
MW - 6	08/31/00	3,604.44	-	17.44	0.00	3,587.00
MW - 6	12/18/00	3,604.44	-	17.58	0.00	3,586.86
MW - 6	03/13/01	3,604.44	-	17.55	0.00	3,586.89
MW - 6	05/30/01	3,604.44	-	17.58	0.00	3,586.86
MW - 6	09/12/01	3,604.44	-	17.70	0.00	3,586.74
MW - 6	11/17/01	3,604.44	-	17.69	0.00	3,586.75
MW - 6	02/12/02	3,604.44	-	17.67	0.00	3,586.77
MW - 6	05/15/02	3,604.44	-	17.68	0.00	3,586.76
MW - 6	09/12/02	3,604.44	-	17.72	0.00	3,586.72
MW - 6	11/18/02	3,604.44	-	17.56	0.00	3,586.88
MW - 6	02/17/03	3,604.44	-	17.66	0.00	3,586.78
MW - 6	05/19/03	3,604.44	-	17.79	0.00	3,586.65
MW - 6	08/25/03	3,604.44	-	17.91	0.00	3,586.53

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 6	11/21/03	3,604.44	-	17.94	0.00	3,586.50
MW - 6	02/23/04	3,604.44	-	17.93	0.00	3,586.51
MW - 6	05/13/04	3,604.44	-	17.18	0.00	3,587.26
MW - 6	08/26/04	3,604.44	-	17.55	0.00	3,586.89
MW - 6	12/13/04	3,604.44	-	15.87	0.00	3,588.57
MW - 6	*03/14/05*	3,604.44	-	16.89	0.00	3,587.55
MW - 6	*06/24/05*	3,604.44	-	17.10	0.00	3,587.34
MW - 6	*09/08/05*	3,604.44	-	17.19	0.00	3,587.25
MW - 6	09/13/05	PLUGGED & ABANDONED				
MW - 7	01/17/00	3,607.38	20.25	20.30	0.05	3,587.12
MW - 7	04/10/00	3,607.38	20.36	20.41	0.05	3,587.01
MW - 7	08/31/00	3,607.38	sheen	19.99	0.00	3,587.39
MW - 7	09/14/00	3,607.38	sheen	20.01	0.00	3,587.37
MW - 7	09/20/00	3,607.38	sheen	20.03	0.00	3,587.35
MW - 7	09/27/00	3,607.38	sheen	20.04	0.00	3,587.34
MW - 7	10/04/00	3,607.38	sheen	20.07	0.00	3,587.31
MW - 7	12/18/00	3,607.38	sheen	20.16	0.00	3,587.22
MW - 7	03/13/01	3,607.38	sheen	20.20	0.00	3,587.18
MW - 7	05/30/01	3,607.38	sheen	20.21	0.00	3,587.17
MW - 7	09/12/01	3,607.38	sheen	20.03	0.00	3,587.35
MW - 7	11/17/01	3,607.38	sheen	20.27	0.00	3,587.11
MW - 7	02/12/02	3,607.38	sheen	20.30	0.00	3,587.08
MW - 7	03/18/02	3,607.38	sheen	20.42	0.00	3,586.96
MW - 7	03/28/02	3,607.38	sheen	20.33	0.00	3,587.05
MW - 7	04/03/02	3,607.38	sheen	20.31	0.00	3,587.07
MW - 7	04/12/02	3,607.38	sheen	20.31	0.00	3,587.07
MW - 7	04/16/02	3,607.38	sheen	20.32	0.00	3,587.06
MW - 7	05/03/02	3,607.38	sheen	20.32	0.00	3,587.06
MW - 7	05/10/02	3,607.38	sheen	20.32	0.00	3,587.06
MW - 7	05/15/02	3,607.38	sheen	20.35	0.00	3,587.03
MW - 7	05/24/02	3,607.38	sheen	20.41	0.00	3,586.97
MW - 7	06/10/02	3,607.38	sheen	20.48	0.00	3,586.90
MW - 7	06/12/02	3,607.38	sheen	20.37	0.00	3,587.01
MW - 7	06/19/02	3,607.38	sheen	20.28	0.00	3,587.10
MW - 7	07/03/02	3,607.38	sheen	20.38	0.00	3,587.00
MW - 7	07/11/02	3,607.38	sheen	20.37	0.00	3,587.01
MW - 7	07/16/02	3,607.38	sheen	20.24	0.00	3,587.14
MW - 7	08/21/02	3,607.38	sheen	20.27	0.00	3,587.11
MW - 7	08/27/02	3,607.38	sheen	20.30	0.00	3,587.08
MW - 7	09/05/02	3,607.38	sheen	20.34	0.00	3,587.04
MW - 7	09/12/02	3,607.38	sheen	20.37	0.00	3,587.01
MW - 7	10/08/02	3,607.38	sheen	20.43	0.00	3,586.95
MW - 7	10/31/02	3,607.38	sheen	20.43	0.00	3,586.95
MW - 7	11/06/02	3,607.38	sheen	20.12	0.00	3,587.26

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	11/18/02	3,607.38	sheen	20.22	0.00	3,587.16
MW - 7	01/07/03	3,607.38	sheen	20.29	0.00	3,587.09
MW - 7	01/10/03	3,607.38	sheen	20.28	0.00	3,587.10
MW - 7	02/17/03	3,607.38	-	20.35	0.00	3,587.03
MW - 7	04/02/03	3,607.38	sheen	20.41	0.00	3,586.97
MW - 7	04/16/03	3,607.38	-	20.46	0.00	3,586.92
MW - 7	04/16/03	3,607.38	sheen	20.46	0.00	3,586.92
MW - 7	05/19/03	3,607.38	-	20.45	0.00	3,586.93
MW - 7	06/10/03	3,607.38	sheen	22.59	0.00	3,584.79
MW - 7	06/25/03	3,607.38	sheen	20.66	0.00	3,586.72
MW - 7	07/10/03	3,607.38	sheen	20.69	0.00	3,586.69
MW - 7	08/05/03	3,607.38	sheen	20.76	0.00	3,586.62
MW - 7	08/25/03	3,607.38	20.61	20.66	0.05	3,586.76
MW - 7	09/08/03	3,607.38	20.91	20.98	0.07	3,586.46
MW - 7	09/30/03	3,607.38	20.65	20.77	0.12	3,586.71
MW - 7	11/11/03	3,607.38	21.04	21.06	0.02	3,586.34
MW - 7	11/21/03	3,607.38	20.74	20.76	0.02	3,586.64
MW - 7	12/08/03	3,607.38	sheen	20.75	0.00	3,586.63
MW - 7	12/31/03	3,607.38	20.60	20.61	0.01	3,586.78
MW - 7	01/13/04	3,607.38	21.08	21.11	0.03	3,586.30
MW - 7	02/18/04	3,607.38	20.77	20.96	0.19	3,586.58
MW - 7	02/23/04	3,607.38	20.60	20.67	0.07	3,586.77
MW - 7	03/11/04	3,607.38	20.85	20.89	0.04	3,586.52
MW - 7	04/09/04	3,607.38	20.11	20.15	0.04	3,587.26
MW - 7	05/03/04	3,607.38	19.79	19.92	0.13	3,587.57
MW - 7	05/13/04	3,607.38	sheen	19.61	0.00	3,587.77
MW - 7	07/01/04	3,607.38	19.94	19.95	0.01	3,587.44
MW - 7	08/26/04	3,607.38	20.18	20.19	0.01	3,587.20
MW - 7	09/21/04	3,607.38	sheen	20.25	0.00	3,587.13
MW - 7	09/29/04	3,607.38	sheen	19.03	0.00	3,588.35
MW - 7	10/05/04	3,607.38	sheen	18.33	0.00	3,589.05
MW - 7	10/19/04	3,607.38	sheen	18.66	0.00	3,588.72
MW - 7	10/12/04	3,607.38	sheen	18.50	0.00	3,588.88
MW - 7	10/25/04	3,607.38	sheen	18.70	0.00	3,588.68
MW - 7	11/01/04	3,607.38	sheen	18.80	0.00	3,588.58
MW - 7	11/09/04	3,607.38	sheen	18.81	0.00	3,588.57
MW - 7	11/16/04	3,607.38	sheen	18.34	0.00	3,589.04
MW - 7	11/22/04	3,607.38	sheen	17.78	0.00	3,589.60
MW - 7	11/29/04	3,607.38	sheen	17.62	0.00	3,589.76
MW - 7	12/07/04	3,607.38	sheen	17.50	0.00	3,589.88
MW - 7	12/13/04	3,607.38	-	17.92	0.00	3,589.46
MW - 7	12/20/04	3,607.38	sheen	17.96	0.00	3,589.42
MW - 7	12/27/04	3,607.38	sheen	18.10	0.00	3,589.28
MW - 7	01/10/05	3,607.38	sheen	18.26	0.00	3,589.12
MW - 7	01/17/05	3,607.38	sheen	18.39	0.00	3,588.99

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	01/24/05	3,607.38	sheen	18.48	0.00	3,588.90
MW - 7	01/31/05	3,607.38	sheen	18.59	0.00	3,588.79
MW - 7	02/07/05	3,607.38	sheen	18.69	0.00	3,588.69
MW - 7	02/14/05	3,607.38	sheen	18.81	0.00	3,588.57
MW - 7	02/21/05	3,607.38	sheen	18.87	0.00	3,588.51
MW - 7	02/28/05	3,607.38	sheen	18.93	0.00	3,588.45
MW - 7	03/08/05	3,607.38	sheen	18.86	0.00	3,588.52
MW - 7	*03/14/05*	3,607.38	sheen	19.05	0.00	3,588.33
MW - 7	03/16/05	3,607.38	sheen	18.80	0.00	3,588.58
MW - 7	03/21/05	3,607.38	sheen	19.11	0.00	3,588.27
MW - 7	03/28/05	3,607.38	sheen	19.15	0.00	3,588.23
MW - 7	04/04/05	3,607.38	sheen	19.20	0.00	3,588.18
MW - 7	04/13/05	3,607.38	sheen	19.23	0.00	3,588.15
MW - 7	04/18/05	3,607.38	sheen	19.22	0.00	3,588.16
MW - 7	05/23/05	3,607.38	sheen	19.36	0.00	3,588.02
MW - 7	06/21/05	3,607.38	sheen	19.45	0.00	3,587.93
MW - 7	*06/24/05*	3,607.38	-	19.45	0.00	3,587.93
MW - 7	07/26/05	3,607.38	sheen	19.51	0.00	3,587.87
MW - 7	08/24/05	3,607.38	sheen	19.28	0.00	3,588.10
MW - 7	*09/08/05*	3,607.38	19.38	19.39	0.01	3,588.00
MW - 7	09/26/05	3,607.38	sheen	19.46	0.00	3,587.92
MW - 7	10/25/05	3,607.38	sheen	19.54	0.00	3,587.84
MW - 7	11/14/05	3,607.38	sheen	19.58	0.00	3,587.80
MW - 7	*12/01/05*	3,607.38	-	19.60	0.00	3,587.78
MW - 7	12/28/05	3,607.38	sheen	19.68	0.00	3,587.70
MW - 7	01/18/06	3,607.38	sheen	19.72	0.00	3,587.66
MW - 7	02/15/06	3,607.38	sheen	19.75	0.00	3,587.63
MW - 7	*03/07/06*	3,607.38	sheen	19.76	0.00	3,587.62
MW - 7	03/20/06	3,607.38	sheen	19.80	0.00	3,587.58
MW - 7	04/19/06	3,607.38	sheen	19.83	0.00	3,587.55
MW - 7	05/25/06	3,607.38	sheen	19.86	0.00	3,587.52
MW - 7	*06/06/06*	3,607.38	sheen	19.98	0.00	3,587.40
MW - 7	*09/12/06*	3,607.38	-	18.19	0.00	3,589.19
MW - 7	10/31/06	3,607.38	sheen	18.38	0.00	3,589.00
MW - 7	11/15/06	3,607.38	sheen	18.33	0.00	3,589.05
MW - 7	*12/13/06*	3,607.38	sheen	18.78	0.00	3,588.60
MW - 7	02/07/07	3,607.38	sheen	19.29	0.00	3,588.09
MW - 7	03/16/07	3,607.38	sheen	19.43	0.00	3,587.95
MW - 7	*05/16/07*	3,607.38	-	19.55	0.00	3,587.83
MW - 7	05/18/07	3,607.38	-	19.22	0.00	3,588.16
MW - 7	*08/20/07*	3,607.38	sheen	19.65	0.00	3,587.73
MW - 7	10/05/07	3,607.38	sheen	19.60	0.00	3,587.78
MW - 7	10/18/07	3,607.38	sheen	19.66	0.00	3,587.72
MW - 7	11/09/07	3,607.38	sheen	19.68	0.00	3,587.70
MW - 7	*11/27/07*	3,607.38	sheen	19.73	0.00	3,587.65

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	01/11/08	3,607.38	-	19.76	0.00	3,587.62
MW - 7	*02/22/08*	3,607.38	-	19.80	0.00	3,587.58
MW - 7	04/25/08	3,607.38	-	19.89	0.00	3,587.49
MW - 7	05/30/08	3,607.38		19.92	0.00	3,587.46
MW - 7	07/03/08	3,607.38	-	19.94	0.00	3,587.44
MW - 7	08/01/08	3,607.38	-	19.94	0.00	3,587.44
MW - 7	08/19/08	3,607.38	-	19.96	0.00	3,587.42
MW - 7	*08/22/08*	3,607.38	-	19.95	0.00	3,587.43
MW - 7	09/25/08	3,607.38	-	19.94	0.00	3,587.44
MW - 7	10/01/08	3,607.38	-	20.00	0.00	3,587.38
MW - 7	10/23/08	3,607.38	-	19.44	0.00	3,587.94
MW - 7	10/28/08	3,607.38	-	19.79	0.00	3,587.59
MW - 7	11/06/08	3,607.38	-	19.80	0.00	3,587.58
MW - 7	*11/13/08*	3,607.38	-	19.75	0.00	3,587.63
MW - 7	11/13/08	3,607.38	-	19.78	0.00	3,587.60
MW - 7	12/16/08	3,607.38	-	19.82	0.00	3,587.56
MW - 7	01/07/09	3,607.38	-	19.86	0.00	3,587.52
MW - 7	01/16/09	3,607.38	-	19.88	0.00	3,587.50
MW - 7	02/09/09	3,607.38	-	19.90	0.00	3,587.48
MW - 7	*02/12/09*	3,607.38		19.89	0.00	3,587.49
MW - 7	02/26/09	3,607.38	-	19.90	0.00	3,587.48
MW - 7	03/02/09	3,607.38	-	19.91	0.00	3,587.47
MW - 7	03/04/09	3,607.38	-	19.91	0.00	3,587.47
MW - 7	03/09/09	3,607.38	-	19.94	0.00	3,587.44
MW - 7	*03/17/09*	3,607.38	-	19.96	0.00	3,587.42
MW - 7	03/19/09	3,607.38	-	19.97	0.00	3,587.41
MW - 7	03/25/09	3,607.38	-	19.95	0.00	3,587.43
MW - 7	03/27/09	3,607.38	-	19.99	0.00	3,587.39
MW - 7	03/30/09	3,607.38	-	20.01	0.00	3,587.37
MW - 7	04/06/09	3,607.38	-	20.00	0.00	3,587.38
MW - 7	04/08/09	3,607.38	-	19.92	0.00	3,587.46
MW - 7	04/13/09	3,607.38	-	19.96	0.00	3,587.42
MW - 7	04/15/09	3,607.38	-	19.95	0.00	3,587.43
MW - 7	04/21/09	3,607.38	-	19.98	0.00	3,587.40
MW - 7	04/27/09	3,607.38	-	19.96	0.00	3,587.42
MW - 7	*05/14/09*	3,607.38	-	19.36	0.00	3,588.02
MW - 7	06/10/09	3,607.38	-	20.01	0.00	3,587.37
MW - 7	07/01/09	3,607.38	-	19.87	0.00	3,587.51
MW - 7	07/10/09	3,607.38	-	19.88	0.00	3,587.50
MW - 7	07/15/09	3,607.38	-	19.90	0.00	3,587.48
MW - 7	07/21/09	3,607.38	-	19.91	0.00	3,587.47
MW - 7	07/29/09	3,607.38	-	20.00	0.00	3,587.38
MW - 7	07/30/09	3,607.38	-	20.04	0.00	3,587.34
MW - 7	*08/06/09*	3,607.38	-	19.83	0.00	3,587.55
MW - 7	08/07/09	3,607.38	-	20.03	0.00	3,587.35

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	08/10/09	3,607.38	-	19.82	0.00	3,587.56
MW - 7	08/17/09	3,607.38	-	18.84	0.00	3,588.54
MW - 7	08/27/09	3,607.38	-	19.73	0.00	3,587.65
MW - 7	08/31/09	3,607.38	-	19.71	0.00	3,587.67
MW - 7	09/11/09	3,607.38	-	19.78	0.00	3,587.60
MW - 7	09/17/09	3,607.38	-	19.80	0.00	3,587.58
MW - 7	09/24/09	3,607.38	-	19.81	0.00	3,587.57
MW - 7	09/29/09	3,607.38	-	20.04	0.00	3,587.34
MW - 7	09/30/09	3,607.38	-	19.84	0.00	3,587.54
MW - 7	10/06/09	3,607.38	-	20.04	0.00	3,587.34
MW - 7	10/20/09	3,607.38	-	19.87	0.00	3,587.51
MW - 7	10/27/09	3,607.38	-	19.88	0.00	3,587.50
MW - 7	11/05/09	3,607.38	-	19.94	0.00	3,587.44
MW - 7	*11/05/09*	3,607.38	-	19.94	0.00	3,587.44
MW - 7	11/20/09	3,607.38	-	19.95	0.00	3,587.43
MW - 7	12/04/09	3,607.38	-	19.96	0.00	3,587.42
MW - 7	12/18/09	3,607.38	-	19.95	0.00	3,587.43
MW - 7	01/12/10	3,607.38	-	19.96	0.00	3,587.42
MW - 7	*02/05/10*	3,607.38	-	20.01	0.00	3,587.37
MW - 7	03/01/10	3,607.38	-	20.02	0.00	3,587.36
MW - 7	04/15/10	3,607.38	-	20.06	0.00	3,587.32
MW - 7	*05/03/10*	3,607.38	-	19.94	0.00	3,587.44
MW - 7	06/07/10	3,607.38	-	19.96	0.00	3,587.42
MW - 7	06/25/10	3,607.38	-	20.06	0.00	3,587.32
MW - 7	07/16/10	3,607.38	-	19.03	0.00	3,588.35
MW - 7	07/30/10	3,607.38	-	19.13	0.00	3,588.25
MW - 7	*08/09/10*	3,607.38	-	19.17	0.00	3,588.21
MW - 7	08/20/10	3,607.38	-	19.22	0.00	3,588.16
MW - 7	09/10/10	3,607.38	-	19.20	0.00	3,588.18
MW - 7	09/24/10	3,607.38	-	19.26	0.00	3,588.12
MW - 7	10/08/10	3,607.38	-	19.40	0.00	3,587.98
MW - 7	*11/08/10*	3,607.38	-	19.19	0.00	3,588.19
MW - 7	11/19/10	3,607.38	-	19.53	0.00	3,587.85
MW - 7	12/03/10	3,607.38	-	19.58	0.00	3,587.80
MW - 7	12/17/10	3,607.38	-	19.22	0.00	3,588.16
MW - 7	*02/17/11*	3,607.38	-	19.23	0.00	3,588.15
MW - 7	*05/16/11*	3,607.38	-	19.24	0.00	3,588.14
MW - 7	*08/08/11*	3,607.38	-	19.22	0.00	3,588.16
MW - 7	*11/11/11*	3,607.38	-	20.05	0.00	3,587.33
MW - 7	*02/08/12*	3,607.38	-	20.08	0.00	3,587.30
MW - 7	*05/07/12*	3,607.38	-	20.13	0.00	3,587.25
MW - 7	*08/01/12*	3,607.38	-	20.13	0.00	3,587.25
MW - 7	*12/12/12*	3,607.38	-	20.16	0.00	3,587.22
MW - 7	02/05/13	3,607.38	-	20.19	0.00	3,587.19
MW - 7	*05/23/13*	3,607.38	-	20.22	0.00	3,587.16

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 7	08/13/13	3,607.38	-	19.90	0.00	3,587.48
MW - 7	11/13/13	3,607.38	-	20.08	0.00	3,587.30
MW - 8	01/17/00	3,607.99	-	20.55	0.00	3,587.44
MW - 8	04/10/00	3,607.99	-	20.68	0.00	3,587.31
MW - 8	08/31/00	3,607.99	-	20.26	0.00	3,587.73
MW - 8	12/18/00	3,607.99	-	20.46	0.00	3,587.53
MW - 8	03/13/01	3,607.99	-	20.46	0.00	3,587.53
MW - 8	05/30/01	3,607.99	-	20.46	0.00	3,587.53
MW - 8	09/12/01	3,607.99	-	20.63	0.00	3,587.36
MW - 8	11/17/01	3,607.99	-	20.64	0.00	3,587.35
MW - 8	02/12/02	3,607.99	-	20.68	0.00	3,587.31
MW - 8	05/15/02	3,607.99	-	20.62	0.00	3,587.37
MW - 8	09/12/02	3,607.99	-	20.68	0.00	3,587.31
MW - 8	11/18/02	3,607.99	-	20.51	0.00	3,587.48
MW - 8	02/17/03	3,607.99	-	20.64	0.00	3,587.35
MW - 8	05/19/03	3,607.99	-	20.70	0.00	3,587.29
MW - 8	08/25/03	3,607.99	-	20.93	0.00	3,587.06
MW - 8	11/21/03	3,607.99	-	20.93	0.00	3,587.06
MW - 8	02/23/04	3,607.99	-	20.94	0.00	3,587.05
MW - 8	05/13/04	3,607.99	-	19.86	0.00	3,588.13
MW - 8	08/26/04	3,607.99	-	20.48	0.00	3,587.51
MW - 8	12/13/04	3,607.99	-	17.81	0.00	3,590.18
MW - 8	*03/14/05*	3,607.99	-	19.10	0.00	3,588.89
MW - 8	*06/24/05*	3,607.99	-	19.62	0.00	3,588.37
MW - 8	*09/08/05*	3,607.99	-	19.61	0.00	3,588.38
MW - 8	*12/01/05*	3,607.99	-	19.85	0.00	3,588.14
MW - 8	*03/07/06*	3,607.99	-	20.04	0.00	3,587.95
MW - 8	*06/07/06*	3,607.99	-	20.18	0.00	3,587.81
MW - 8	*09/12/06*	3,607.99	-	18.14	0.00	3,589.85
MW - 8	*12/13/06*	3,607.99	-	19.06	0.00	3,588.93
MW - 8	*03/16/07*	3,607.99	-	19.68	0.00	3,588.31
MW - 8	*05/16/07*	3,607.99	-	19.81	0.00	3,588.18
MW - 8	*08/20/07*	3,607.99	-	19.94	0.00	3,588.05
MW - 8	*11/27/07*	3,607.99	-	20.01	0.00	3,587.98
MW - 8	*02/22/08*	3,607.99	-	20.15	0.00	3,587.84
MW - 8	*05/30/08*	3,607.99	-	20.24	0.00	3,587.75
MW - 8	*08/22/08*	3,607.99	-	20.28	0.00	3,587.71
MW - 8	*11/13/08*	3,607.99	-	20.06	0.00	3,587.93
MW - 8	*02/12/09*	3,607.99	-	20.21	0.00	3,587.78
MW - 8	*05/14/09*	3,607.99	-	20.36	0.00	3,587.63
MW - 8	*08/06/09*	3,607.99	-	20.11	0.00	3,587.88
MW - 8	*11/05/09*	3,607.99	-	20.21	0.00	3,587.78
MW - 8	01/12/10	3,607.99	-	20.23	0.00	3,587.76
MW - 8	*02/05/10*	3,607.99	-	20.28	0.00	3,587.71

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 8	*05/03/10*	3,607.99	-	20.21	0.00	3,587.78
MW - 8	*08/09/10*	3,607.99	-	19.25	0.00	3,588.74
MW - 8	*11/08/10*	3,607.99	-	19.24	0.00	3,588.75
MW - 8	*02/17/11*	3,607.99	-	19.23	0.00	3,588.76
MW - 8	*05/16/11*	3,607.99	-	19.22	0.00	3,588.77
MW - 8	*08/08/11*	3,607.99	-	19.20	0.00	3,588.79
MW - 8	*11/11/11*	3,607.99	-	20.38	0.00	3,587.61
MW - 8	*02/08/12*	3,607.99	-	20.40	0.00	3,587.59
MW - 8	*05/07/12*	3,607.99	-	20.45	0.00	3,587.54
MW - 8	*08/01/12*	3,607.99	-	20.44	0.00	3,587.55
MW - 8	*12/12/12*	3,607.99	-	20.46	0.00	3,587.53
MW - 8	02/05/13	3,607.99	-	20.48	0.00	3,587.51
MW - 8	*05/23/13*	3,607.99	-	20.53	0.00	3,587.46
MW - 8	08/13/13	3,607.99	-	20.18	0.00	3,587.81
MW - 8	11/13/13	3,607.99	-	20.37	0.00	3,587.62
MW - 9	11/04/04	3,606.83	-	18.68	0.00	3,588.15
MW - 9	11/10/04	3,606.83	-	18.70	0.00	3,588.13
MW - 9	*03/14/05*	3,606.83	-	18.87	0.00	3,587.96
MW - 9	*06/24/05*	3,606.83	-	19.13	0.00	3,587.70
MW - 9	*09/08/05*	3,606.83	-	19.13	0.00	3,587.70
MW - 9	*12/01/05*	3,606.83	-	19.27	0.00	3,587.56
MW - 9	*03/07/06*	3,606.83	-	19.42	0.00	3,587.41
MW - 9	*06/07/06*	3,606.83	-	19.54	0.00	3,587.29
MW - 9	*09/12/06*	3,606.83	-	18.07	0.00	3,588.76
MW - 9	*12/13/06*	3,606.83	-	18.54	0.00	3,588.29
MW - 9	*03/16/07*	3,606.83	-	19.14	0.00	3,587.69
MW - 9	*05/16/07*	3,606.83	-	19.21	0.00	3,587.62
MW - 9	*08/20/07*	3,606.83	-	19.34	0.00	3,587.49
MW - 9	*11/27/07*	3,606.83	-	19.39	0.00	3,587.44
MW - 9	*02/22/08*	3,606.83	-	19.52	0.00	3,587.31
MW - 9	*05/30/08*	3,606.83	-	19.57	0.00	3,587.26
MW - 9	*08/22/08*	3,606.83	-	19.61	0.00	3,587.22
MW - 9	*11/13/08*	3,606.83	-	19.43	0.00	3,587.40
MW - 9	*02/12/09*	3,606.83	-	19.64	0.00	3,587.19
MW - 9	*05/14/09*	3,606.83	-	20.74	0.00	3,586.09
MW - 9	*08/06/09*	3,606.83	-	19.44	0.00	3,587.39
MW - 9	*11/05/09*	3,606.83	-	19.54	0.00	3,587.29
MW - 9	11/05/09	3,606.83	-	19.54	0.00	3,587.29
MW - 9	01/12/10	3,606.83	-	19.56	0.00	3,587.27
MW - 9	*02/05/10*	3,606.83	-	19.59	0.00	3,587.24
MW - 9	*05/03/10*	3,606.83	-	19.55	0.00	3,587.28
MW - 9	*08/09/10*	3,606.83	-	18.92	0.00	3,587.91
MW - 9	*11/08/10*	3,606.83	-	18.91	0.00	3,587.92
MW - 9	*02/17/11*	3,606.83	-	18.93	0.00	3,587.90

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD Reference # 1R-0123

SAMPLE LOCATION	SAMPLE DATE	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 9	*05/16/11*	3,606.83	-	18.91	0.00	3,587.92
MW - 9	*08/08/11*	3,606.83	-	18.88	0.00	3,587.95
MW - 9	*11/11/11*	3,606.83	-	19.66	0.00	3,587.17
MW - 9	*02/08/12*	3,606.83	-	19.69	0.00	3,587.14
MW - 9	*05/07/12*	3,606.83	-	19.72	0.00	3,587.11
MW - 9	*08/01/12*	3,606.83	-	19.72	0.00	3,587.11
MW - 9	*12/12/12*	3,606.83	-	19.73	0.00	3,587.10
MW - 9	02/05/13	3,606.83	-	19.75	0.00	3,587.08
MW - 9	*05/09/13*	3,606.83	-	19.79	0.00	3,587.04
MW - 9	*05/23/13*	3,606.83	-	19.79	0.00	3,587.04
MW - 9	08/13/13	3,606.83	-	19.51	0.00	3,587.32
MW - 9	11/13/13	3,606.83	-	19.66	0.00	3,587.17

Elevations based on the North America Vertical Datum of 1929.

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
NMOCD Regulatory Limit		0.0100	0.75	0.75	Total XYLENES 0.62	
MW - 1	09/10/99	**0.0900**	0.006	0.0160	0.0100	0.004
MW - 1	01/17/00	**0.1530**	0.008	0.0440	0.0160	0.006
MW - 1	04/10/00	**0.0590**	0.003	0.0020	0.0030	0.002
MW - 1	08/31/00	**0.1320**	0.002	<0.001	0.0010	0.001
MW - 1	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	03/13/01	0.0050	<0.001	<0.001	<0.001	<0.001
MW - 1	05/30/01	**0.2010**	<0.001	<0.001	<0.001	
MW - 1	09/12/01	**0.1840**	0.010	0.0270	0.0210	0.008
MW - 1	11/17/01	**0.0440**	0.001	<0.001	0.0010	0.002
MW - 1	02/12/02	**0.0690**	0.004	0.0170	0.0150	0.005
MW - 1	05/15/02	**0.0950**	0.005	0.0270	0.0200	0.005
MW - 1	09/12/02	**0.2590**	0.005	0.0170	0.0130	0.004
MW - 1	11/18/02	**0.0100**	<0.001	<0.001	<0.001	<0.001
MW - 1	02/17/03	0.0030	<0.001	<0.001	<0.001	<0.001
MW - 1	05/19/03	**0.0600**	0.002	0.0330	0.0140	0.003
MW - 1	08/25/03	**0.0760**	0.001	0.0280	0.0110	0.003
MW - 1	11/21/03	**0.1450**	0.004	0.0800	0.0250	0.006
MW - 1	02/23/04	0.0079	<0.001	0.0020	<0.002	<0.001
MW - 1	05/13/04	**0.0281**	<0.001	0.0047	0.0026	<0.001
MW - 1	08/26/04	0.0088	<0.001	<0.001	<0.002	<0.001
MW - 1	12/13/04	<0.001	<0.001	<0.001	<0.001	
MW - 1	03/14/05	0.0059	<0.001	<0.001	<0.001	
MW - 1	06/24/05	**0.0413**	<0.001	0.0168	0.0084	
MW - 1	09/08/05	**0.0709**	<0.001	0.0096	0.0082	
MW - 1	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 1	03/07/06	**0.0279**	<0.001	0.0106	0.0066	
MW - 1	06/06/06	**0.0626**	<0.001	0.0283	0.0157	
MW - 1	09/12/06	**0.0370**	<0.001	0.0281	0.0126	
MW - 1	12/13/06	0.0058	<0.001	<0.001	<0.001	
MW - 1	03/16/07	**0.0294**	<0.001	0.0079	0.0034	
MW - 1	05/16/07	**0.0243**	<0.001	0.0034	0.0027	
MW - 1	08/20/07	**0.0349**	<0.001	0.0251	0.0105	
MW - 1	11/27/07	0.0028	<0.001	0.0010	<0.001	
MW - 1	02/22/08	<0.005	<0.005	<0.005	<0.005	
MW - 1	05/30/08	**0.0301**	<0.001	0.0380	0.0160	
MW - 1	08/22/08	**0.0431**	<0.001	0.0110	0.0106	
MW - 1	11/13/08	0.0034	<0.001	<0.001	<0.001	
MW - 1	02/12/09	<0.001	<0.001	<0.001	<0.001	
MW - 1	05/14/09	**0.0105**	<0.001	0.0068	0.0126	
MW - 1	08/06/09	0.0073	<0.001	<0.001	<0.001	
MW - 1	11/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 1	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 1	05/03/10	<0.001	<0.001	<0.001	<0.001	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 1	08/09/10	0.0081	<0.001	<0.001	<0.001	
MW - 1	11/08/10	0.0077	<0.001	0.0064	<0.001	
MW - 1	02/07/11	<0.001	<0.001	<0.001	0.0198	
MW - 1	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 1	08/08/11	**0.0145**	<0.001	0.0069	<0.001	
MW - 1	11/11/11	0.0032	<0.001	<0.001	<0.001	
MW - 1	02/08/12	<0.001	<0.001	<0.001	<0.001	
MW - 1	05/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 1	08/01/12	0.0088	<0.001	0.0018	0.0013	
MW - 1	12/12/12	<0.001	<0.001	<0.001	<0.001	
MW - 1	02/05/13	<0.001	<0.001	<0.001	<0.001	
MW - 1	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1	08/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 1	02/24/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 2	09/10/99	**0.0170**	0.003	0.0010	<0.001	<0.001
MW - 2	01/17/00	0.0020	<0.001	<0.001	<0.001	<0.001
MW - 2	04/10/00	**0.0110**	0.004	0.0010	0.0020	0.001
MW - 2	08/31/00	**0.1070**	0.005	0.0060	<0.001	<0.001
MW - 2	12/18/00	0.0030	<0.001	<0.001	<0.001	<0.002
MW - 2	03/13/01	0.0060	<0.001	<0.001	<0.001	<0.002
MW - 2	05/30/01	0.0050	<0.001	<0.001	<0.001	
MW - 2	09/12/01	**0.0330**	0.003	0.0030	0.0010	<0.001
MW - 2	11/17/01	**0.0200**	<0.001	<0.001	<0.001	<0.001
MW - 2	02/12/02	**0.0200**	0.001	0.0020	0.0010	<0.001
MW - 2	05/15/02	**0.0390**	0.003	0.0060	0.0020	<0.001
MW - 2	09/12/02	**0.0460**	0.001	0.0020	0.0010	<0.001
MW - 2	11/18/02	0.0060	<0.001	<0.001	<0.001	<0.001
MW - 2	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 2	05/19/03	0.0080	<0.001	<0.001	<0.001	<0.001
MW - 2	08/25/03	**0.0500**	0.006	0.0100	0.0110	0.004
MW - 2	11/21/03	**0.1920**	0.014	0.0260	0.0110	0.003
MW - 2	02/23/04	0.00463	<0.001	<0.001	<0.002	<0.001
MW - 2	05/13/04	0.0021	<0.001	<0.001	<0.002	<0.001
MW - 2	08/26/04	0.0071	<0.001	<0.001	<0.002	<0.001
MW - 2	12/13/04	0.00670	<0.001	<0.001	<0.001	
MW - 2	03/14/05	**0.0180**	<0.001	<0.001	<0.001	
MW - 2	06/24/05	0.00360	<0.001	<0.001	<0.001	
MW - 2	09/08/05	0.00750	<0.001	<0.001	<0.001	
MW - 2	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 2	03/07/06	0.0052	<0.001	<0.001	<0.001	
MW - 2	06/06/06	0.0045	<0.001	<0.001	<0.001	
MW - 2	09/12/06	**0.0132**	<0.001	0.00130	<0.001	
MW - 2	12/13/06	0.0022	<0.001	<0.001	<0.001	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 2	03/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 2	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/20/07	**0.1430**	<0.001	<0.001	0.0104	
MW - 2	11/27/07	0.0041	<0.001	<0.001	<0.001	
MW - 2	02/22/08	0.0035	<0.001	<0.001	0.0011	
MW - 2	05/30/08	**0.0122**	<0.001	<0.001	0.001	
MW - 2	08/22/08	**0.0467**	<0.001	<0.001	0.00220	
MW - 2	11/13/08	**0.0128**	<0.001	<0.001	0.0012	
MW - 2	02/12/09	0.0037	<0.001	<0.001	<0.001	
MW - 2	05/14/09	0.0090	<0.001	<0.001	<0.001	
MW - 2	08/06/09	**0.0162**	<0.001	<0.001	<0.001	
MW - 2	11/05/09	0.0037	<0.001	<0.001	<0.001	
MW - 2	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/09/10	0.0013	<0.001	<0.001	<0.001	
MW - 2	11/08/10	**0.0156**	<0.001	<0.001	<0.001	
MW - 2	02/07/11	<0.001	<0.001	<0.001	0.0191	
MW - 2	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/08/11	**0.0428**	<0.001	<0.001	<0.001	
MW - 2	11/11/11	**0.0318**	<0.001	<0.001	0.0022	
MW - 2	02/08/12	<0.001	<0.001	<0.001	<0.001	
MW - 2	05/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 2	08/01/12	**0.0126**	<0.001	<0.001	<0.001	
MW - 2	12/12/12	0.0042	<0.001	<0.001	<0.001	
MW - 2	02/05/13	0.0027	<0.001	<0.001	<0.001	
MW - 2	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	08/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 2	11/13/13	0.00470	<0.00100	<0.00100	<0.00300	
MW - 2	02/24/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 3	09/10/99	**0.0320**	0.003	0.0010	<0.001	<0.001
MW - 3	01/17/00	0.0050	0.002	<0.001	0.0020	<0.001
MW - 3	04/10/00	**0.0330**	0.005	0.0030	0.0030	0.002
MW - 3	08/31/00	**0.0290**	<0.001	0.0010	<0.001	<0.001
MW - 3	12/18/00	**0.0280**	0.002	0.0010	<0.001	<0.001
MW - 3	03/13/01	0.0040	<0.001	<0.001	<0.001	<0.001
MW - 3	05/30/01	**0.0960**	<0.001	<0.001	<0.001	
MW - 3	09/12/01	0.0080	<0.001	<0.001	<0.001	<0.001
MW - 3	11/17/01	0.0050	<0.001	<0.001	<0.001	<0.001
MW - 3	02/12/02	**0.1370**	0.011	0.0200	0.0100	0.001
MW - 3	05/15/02	**0.0220**	0.001	0.0020	<0.001	<0.001
MW - 3	09/12/02	**0.0190**	<0.001	<0.001	<0.001	<0.001
MW - 3	11/18/02	0.0080	<0.001	<0.001	<0.001	<0.001
MW - 3	02/17/03	**0.0150**	<0.001	<0.001	<0.001	<0.001
MW - 3	05/19/03	**0.0140**	<0.001	<0.001	<0.001	<0.001

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 3	08/25/03	**0.0530**	<0.001	0.0100	0.0060	<0.001
MW - 3	11/21/03	**0.4090**	0.045	0.0910	0.0550	0.010
MW - 3	02/23/04	**0.0444**	0.00355	0.0112	0.00576	<0.001
MW - 3	05/13/04	**0.0338**	<0.001	0.0092	<0.002	<0.001
MW - 3	08/26/04	**0.0157**	<0.001	<0.001	<0.002	<0.001
MW - 3	12/13/04	**0.0598**	<0.005	0.0362	<0.005	
MW - 3	03/14/05	0.00530	<0.001	0.00260	<0.001	
MW - 3	06/24/05	**0.0308**	<0.001	0.00400	<0.001	
MW - 3	09/08/05	**0.0141**	<0.001	0.00220	<0.001	
MW - 3	12/01/05	**0.0275**	<0.001	<0.001	<0.001	<0.001
MW - 3	03/07/06	**0.0681**	<0.001	0.00260	0.00180	
MW - 3	06/06/06	**0.0212**	<0.001	<0.001	<0.001	
MW - 3	09/12/06	**0.168**	<0.02	<0.02	<0.02	
MW - 3	12/13/06	0.0085	<0.005	<0.005	<0.005	
MW - 3	03/16/07	0.0078	<0.001	<0.001	<0.001	
MW - 3	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/20/07	**0.0377**	<0.001	<0.001	<0.001	
MW - 3	11/27/07	0.0089	<0.001	<0.001	<0.001	
MW - 3	02/22/08	**0.0182**	<0.001	<0.001	0.00150	
MW - 3	05/30/08	**0.0329**	<0.001	0.002	0.00170	
MW - 3	08/22/08	0.0084	<0.001	<0.001	<0.001	
MW - 3	11/13/08	0.0031	<0.001	<0.001	<0.001	
MW - 3	02/12/09	**0.0121**	<0.001	<0.001	<0.001	
MW - 3	05/14/09	0.0088	<0.001	<0.001	<0.001	
MW - 3	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/05/10	0.0030	<0.001	<0.001	<0.001	
MW - 3	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/09/10	**0.0145**	<0.001	0.0038	0.0041	
MW - 3	11/08/10	**0.0141**	<0.001	<0.001	<0.001	
MW - 3	02/07/11	**0.0175**	<0.001	<0.001	<0.001	
MW - 3	05/16/11	**0.0100**	<0.001	<0.001	<0.001	
MW - 3	08/08/11	**0.0103**	<0.001	<0.001	<0.001	
MW - 3	11/11/11	**0.0166**	<0.001	<0.001	<0.001	
MW - 3	02/08/12	0.0047	<0.001	<0.001	<0.001	
MW - 3	05/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 3	08/01/12	<0.001	<0.001	<0.001	<0.001	
MW - 3	12/12/12	<0.001	<0.001	<0.001	<0.001	
MW - 3	02/05/13	0.0043	<0.001	<0.001	<0.001	
MW - 3	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	08/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 3	02/24/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 4	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 4	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	04/10/00	<0.001	<0.001	<0.001	0.0010	<0.001
MW - 4	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	03/13/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	05/30/01	<0.001	<0.001	<0.001	<0.001	
MW - 4	09/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	11/17/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	02/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	05/15/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	09/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	11/18/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	08/25/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	11/21/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 4	02/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 4	12/13/04	<0.001	<0.001	<0.001	<0.001	
MW - 4	03/14/05	Not Sampled on Current Sample Schedule				
MW - 4	06/24/05	<0.001	<0.001	<0.001	<0.001	
MW - 4	09/08/05	Not Sampled on Current Sample Schedule				
MW - 4	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 4	03/07/06	Not Sampled on Current Sample Schedule				
MW - 4	06/06/06	<0.001	<0.001	<0.001	<0.001	
MW - 4	09/12/06	Not Sampled on Current Sample Schedule				
MW - 4	12/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 4	03/16/07	Not Sampled on Current Sample Schedule				
MW - 4	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/20/07	Not Sampled on Current Sample Schedule				
MW - 4	11/27/07	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/22/08	Not Sampled on Current Sample Schedule				
MW - 4	05/30/08	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/22/08	Not Sampled on Current Sample Schedule				
MW - 4	11/13/08	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/12/09	Not Sampled on Current Sample Schedule				
MW - 4	05/14/09	<0.001	<0.001	0.0066	<0.001	
MW - 4	08/06/09	Not Sampled on Current Sample Schedule				
MW - 4	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/05/10	Not Sampled on Current Sample Schedule				
MW - 4	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/09/10	Not Sampled on Current Sample Schedule				
MW - 4	11/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/07/11	Not Sampled on Current Sample Schedule				
MW - 4	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/08/11	Not Sampled on Current Sample Schedule				

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 4	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/08/12	Not Sampled on Current Sample Schedule				
MW - 4	05/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 4	08/01/12	Not Sampled on Current Sample Schedule				
MW - 4	12/12/12	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/05/13	Not Sampled on Current Sample Schedule				
MW - 4	05/23/13	Not Sampled on Current Sample Schedule				
MW - 4	08/13/13	Not Sampled on Current Sample Schedule				
MW - 4	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	02/24/14	Not Sampled on Current Sample Schedule				
MW - 5	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	04/10/00	<0.001	<0.001	<0.001	0.0010	<0.001
MW - 5	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	03/13/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	05/30/01	0.0050	<0.001	<0.001	<0.001	
MW - 5	09/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	11/17/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	02/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	05/15/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	09/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	11/18/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	08/25/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	11/21/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 5	02/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 5	12/13/04	0.00120	<0.001	<0.001	<0.001	
MW - 5	03/14/05	Not Sampled on Current Sample Schedule				
MW - 5	06/24/05	Not Sampled on Current Sample Schedule				
MW - 5	09/08/05	Not Sampled on Current Sample Schedule				
MW - 5	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	03/07/06	Not Sampled on Current Sample Schedule				
MW - 5	06/06/06	Not Sampled on Current Sample Schedule				
MW - 5	09/12/06	Not Sampled on Current Sample Schedule				
MW - 5	12/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 5	03/16/07	Not Sampled on Current Sample Schedule				
MW - 5	05/16/07	Not Sampled on Current Sample Schedule				
MW - 5	08/20/07	Not Sampled on Current Sample Schedule				
MW - 5	11/27/07	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/22/08	Not Sampled on Current Sample Schedule				
MW - 5	05/30/08	Not Sampled on Current Sample Schedule				
MW - 5	08/22/08	Not Sampled on Current Sample Schedule				

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 5	11/13/08	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/12/09	Not Sampled on Current Sample Schedule				
MW - 5	05/14/09	Not Sampled on Current Sample Schedule				
MW - 5	08/06/09	Not Sampled on Current Sample Schedule				
MW - 5	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/05/10	Not Sampled on Current Sample Schedule				
MW - 5	05/03/10	Not Sampled on Current Sample Schedule				
MW - 5	08/09/10	Not Sampled on Current Sample Schedule				
MW - 5	11/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/07/11	Not Sampled on Current Sample Schedule				
MW - 5	05/16/11	Not Sampled on Current Sample Schedule				
MW - 5	08/08/11	Not Sampled on Current Sample Schedule				
MW - 5	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/08/12	Not Sampled on Current Sample Schedule				
MW - 5	05/07/12	Not Sampled on Current Sample Schedule				
MW - 5	08/01/12	Not Sampled on Current Sample Schedule				
MW - 5	12/12/12	<0.001	<0.001	<0.001	<0.001	
MW - 5	02/05/13	Not Sampled on Current Sample Schedule				
MW - 5	05/23/13	Not Sampled on Current Sample Schedule				
MW - 5	08/13/13	Not Sampled on Current Sample Schedule				
MW - 5	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 5	02/24/14	Not Sampled on Current Sample Schedule				
MW - 6	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	04/10/00	<0.001	<0.001	<0.001	0.0010	<0.001
MW - 6	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	03/13/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	05/30/01	<0.005	<0.005	<0.005	<0.005	
MW - 6	09/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	11/17/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	02/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	05/15/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	09/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	11/18/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	08/25/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	11/21/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 6	02/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 6	12/13/04	<0.005	<0.005	<0.005	<0.005	
MW - 6	03/14/05	Not Sampled on Current Sample Schedule				
MW - 6	06/24/05	<0.001	<0.001	<0.001	<0.001	
MW - 6	09/08/05	Not Sampled on Current Sample Schedule				

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 6	09/13/05	Plugged and Abandoned				
MW - 7	11/18/02	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 7	01/10/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	02/17/03	0.0010	<0.001	<0.001	<0.001	<0.001
MW - 7	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	11/21/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	05/13/04	**0.0335**	<0.001	0.0136	<0.002	<0.001
MW - 7	08/26/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	12/13/04	<0.005	<0.005	<0.005	<0.005	
MW - 7	03/14/05	<0.005	<0.005	<0.005	<0.005	
MW - 7	06/24/05	**0.0129**	<0.005	<0.005	<0.005	
MW - 7	09/08/05	Not Sampled				
MW - 7	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	03/07/06	<0.001	<0.001	0.0012	<0.001	
MW - 7	06/06/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	09/12/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	12/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 7	03/16/07	0.0016	<0.001	<0.001	<0.001	
MW - 7	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/27/07	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/26/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/30/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/22/08	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/13/08	0.0013	<0.001	<0.001	<0.001	
MW - 7	02/12/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/14/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/09/10	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/08/10	0.0047	<0.001	<0.001	<0.001	
MW - 7	02/07/11	<0.001	<0.001	<0.001	0.0188	
MW - 7	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/08/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/08/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	05/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	08/01/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	12/12/12	<0.001	<0.001	<0.001	<0.001	
MW - 7	02/05/13	Not Sampled on Current Sample Schedule				
MW - 7	05/23/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	08/13/13	Not Sampled on Current Sample Schedule				

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 7	11/13/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 7	02/17/14	Not Sampled on Current Sample Schedule				
MW - 8	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	04/10/00	<0.001	<0.001	0.0010	0.0010	<0.001
MW - 8	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	03/13/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	05/30/01	<0.001	<0.001	<0.001	<0.001	
MW - 8	09/12/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	11/17/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	02/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	05/15/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	09/12/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	11/18/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	02/17/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	05/19/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	08/25/03	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	11/21/03	0.0050	<0.001	0.0020	<0.002	<0.001
MW - 8	02/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 8	12/13/04	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/14/05	Not Sampled on Current Sample Schedule				
MW - 8	06/24/05	Not Sampled on Current Sample Schedule				
MW - 8	09/08/05	Not Sampled on Current Sample Schedule				
MW - 8	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	03/07/06	Not Sampled on Current Sample Schedule				
MW - 8	06/06/06	Not Sampled on Current Sample Schedule				
MW - 8	09/12/06	Not Sampled on Current Sample Schedule				
MW - 8	12/13/06	<0.001	<0.001	<0.001	<0.001	
MW - 8	03/16/07	Not Sampled on Current Sample Schedule				
MW - 8	05/16/07	Not Sampled on Current Sample Schedule				
MW - 8	08/20/07	Not Sampled on Current Sample Schedule				
MW - 8	11/27/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/26/08	Not Sampled on Current Sample Schedule				
MW - 8	05/30/08	Not Sampled on Current Sample Schedule				
MW - 8	08/22/08	Not Sampled on Current Sample Schedule				
MW - 8	11/13/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/12/09	Not Sampled on Current Sample Schedule				
MW - 8	05/14/09	Not Sampled on Current Sample Schedule				
MW - 8	08/06/09	Not Sampled on Current Sample Schedule				
MW - 8	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/05/10	Not Sampled on Current Sample Schedule				
MW - 8	05/03/10	Not Sampled on Current Sample Schedule				
MW - 8	08/09/10	Not Sampled on Current Sample Schedule				

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 8	11/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/07/11	Not Sampled on Current Sample Schedule				
MW - 8	05/16/11	Not Sampled on Current Sample Schedule				
MW - 8	08/08/11	Not Sampled on Current Sample Schedule				
MW - 8	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/08/12	Not Sampled on Current Sample Schedule				
MW - 8	05/07/12	Not Sampled on Current Sample Schedule				
MW - 8	08/01/12	Not Sampled on Current Sample Schedule				
MW - 8	12/12/12	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/05/13	Not Sampled on Current Sample Schedule				
MW - 8	05/23/13	Not Sampled on Current Sample Schedule				
MW - 8	08/13/13	Not Sampled on Current Sample Schedule				
MW - 8	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 8	02/24/14	Not Sampled on Current Sample Schedule				
MW - 9	11/10/04	<0.001	<0.001	<0.001	<0.001	
MW - 9	03/14/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	06/24/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	09/08/05	<0.001	<0.001	<0.001	<0.001	
MW - 9	12/01/05	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 9	03/07/06	<0.001	<0.001	<0.001	<0.001	
MW - 9	06/06/06	<0.001	<0.001	<0.001	0.0036	
MW - 9	09/12/06	**0.1300**	0.035	0.0203	0.0293	
MW - 9	12/13/06	**0.0121**	<0.001	<0.001	<0.001	
MW - 9	03/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/16/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/27/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/22/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/30/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/22/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/13/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/12/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/14/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/05/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/03/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/09/10	<0.005	<0.005	<0.005	<0.005	
MW - 9	11/08/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/07/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/16/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/08/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/11/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/08/12	<0.001	<0.001	<0.001	<0.001	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0123

All Concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods:SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o-XYLENE
MW - 9	05/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/01/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	12/12/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/05/13	Not Sampled on Current Sample Schedule				
MW - 9	05/23/13	<0.00100	<0.00100	<0.001	<0.00100	
MW - 9	08/13/13	Not Sampled on Current Sample Schedule				
MW - 9	11/13/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	02/24/14	Not Sampled on Current Sample Schedule				

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-123

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	**0.001 mg/L**	**0.0001 mg/L**	**0.0007 mg/L**	**0.001 mg/L**	---	**0.001 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.0004 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.03 mg/L**			---
MW-1	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000861
	11/05/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	12/12/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-2	11/13/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/05/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	12/12/12	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201	<0.000201
	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000252	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00159
	11/05/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000645
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	12/12/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-4	11/13/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/05/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	12/12/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.
MONUMENT 17
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-123

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	**0.001 mg/L**	**0.0001 mg/L**	**0.0007 mg/L**	**0.001 mg/L**	---	**0.001 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.0004 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.03 mg/L**			---
MW-5	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000408	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00117
	11/05/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000404
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	12/12/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/13/08	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	<0.000926	**0.00262**	<0.000926	**0.00123**	<0.000926	<0.000926	<0.000926	<0.000926	0.0065
	11/05/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0022
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
	12/12/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-8	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/05/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	12/12/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/13/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000223
	11/05/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/08/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/16/11	Not Sampled as part of Quarterly Monitoring Event.																		
	12/12/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/13/13	Not Sampled as part of Quarterly Monitoring Event.																		