

NM2 - ____12____

**MONITORING
REPORTS
YEAR(S):**

____2011____



April 2, 2012

Mr. Brad Jones
State of New Mexico – Department of Natural Resources
Oil Conservation Division – Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: 2011 Annual Report for Chevron North America Exploration & Production Co.
Centralized Surface Waste Management Facility
Permit Number NM-2-0012
W/2 of Section 17, Township 24 South, Range 36 East, NMPM
Lea County, New Mexico

Dear Mr. Brad Jones:

The enclosed report is submitted to the New Mexico Oil Conservation Division on behalf of Chevron North America Exploration & Production Co., to present the results of Surface Waste Management monitoring performed at the Chevron Landfarm for the 2011 calendar year.

If you have any questions or concerns, please call me at 432.687.0901 to discuss.

Sincerely,

LARSON & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Jeremy Cannady', is written over a horizontal line.

Jeremy Cannady
Staff Professional / Engineering

Attachments 2011 Surface Waste Management Annual Report

**2011 Annual
Surface Waste Management Report**

Chevron Landfarm
NM-2-0012
Lea County, New Mexico
Project Number 6-0137

March 28, 2012

Prepared for:
Chevron North America Exploration & Production Co.
15 Smith Road
Midland, Texas 79710

Prepared by:
Jeremy Cannady
Staff Professional

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1.0 Executive Summary

Larson & Associates, Inc. (LAI), as consultant to Chevron North America Exploration and Production Company (Chevron), submits this annual report to the New Mexico Oil and Conservation Division (OCD) for approval to close the above referenced centralized surface waste management facility (NM-2-0012).

The following activities were conducted during 2011:

- Treatment Zone Sampling Event March 8, 2011
- Vadose Zone Sampling Event on March 8, 2011
- Treatment Zone Sampling Event on June 21, 2011
- Vadose Zone Sampling Event on June 21, 2011
- Treatment Zone Sampling Event on August 30, 2011
- Vadose Zone Sampling Event on August 30, 2011
- Treatment Zone Sampling Event on December 22, 2011
- Vadose Zone Sampling Event on December 22, 2011

A location map and facility drawing are presented in Figures 1 and 2, respectively

2.0 Background Samples

A background sample of native soil from approximately 2 to 3 feet below native ground surface was collected before construction of the facility on June 24, 1998. This sample was analyzed for total petroleum hydrocarbons (TPH), total metals (arsenic, barium, calcium, cadmium, chromium, lead, magnesium, mercury, potassium, selenium, silver, and sodium), and general chemistry parameters (alkalinity, chloride, sulfate, fluoride and nitrate).

An additional composite background sample of native soil from approximately 2 to 3 feet below native ground surface was collected from Cells 29, 30, 31, and 32, on March 25, 2009. The sample was analyzed according to OCD requirements for TPH, including Gasoline and Diesel Range Organics, Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX), total metals and chloride.

On June 26, 2009, LAI personnel collected ten (10) additional composite background samples from an area located north of the utilized cells to establish a representative statistical baseline. The composite samples were collected at varying depths between six (6) inches and 2 ½ feet below native ground surface. The samples were analyzed for chloride and total metals (arsenic, barium, chromium, iron, lead, mercury, selenium and zinc). The results were evaluated using Student t's – Descriptive Statistics calculations with 95% and 98% confidence levels. Vadose sample results exceeding established background were compared to the Student t's confidence levels.

Background statistical confidence level tables are presented in the Tables section.

3.0 Treatment Zone Samples

Per OCD permit requirements, a 5-part composite soil sample was collected from Cells 17 through 21, 25, and 26 by LAI personnel on March 8, June 21, August 30, and December 22, 2011. Samples were collected from 0 to 1 foot using a stainless steel hand auger. The samples were placed in pre-cleaned 4-ounce jars, properly labeled, placed on ice upon collection and shipped via LoneStar Overnight, under custody seals and chain of custody to DHL Analytical, Inc. (DHL), Round Rock, Texas.

The treatment samples were analyzed for the following constituents:

- BTEX by EPA method SW8021B,
- TPH by EPA method SW8015 for gasoline range organics (GRO) and diesel range organics (DRO),
- TRPH by EPA method 418.1,
- Anions by EPA method 300, and/or

3.1 March 8, 2011 Sampling Event

On March 8, 2011 LAI collected random five part soil composite samples from Cells 17 through 21, 25, and 26. The results of the composite treatment zone samples (Cells 17 through 21, 25, and 26) were below the remediation standards for BTEX (50 ppm), Benzene (10ppm), TPH (500 ppm), and Chloride (250 ppm) as specified in 19.15.36 NMAC Part 36. Tables 1 and 2 present a summary of BTEX, TPH, and Chloride analyses. Laboratory analytical reports are presented in Appendix A.

3.2 June 21, 2011 Sampling Event

On June 21, 2011, LAI collected random five part soil composite samples from Cells 17 though 21, 25, and 26. The results of the composite treatment samples were below the remediation standards for BTEX (50 ppm), TPH (500 ppm), and Chloride (250 ppm).

3.3 August 30, 2011 Sampling Event

On August 20, 2011, LAI collected random five part soil composite samples from Cells 17 through 21, 25, and 26. The results of the composite treatment samples were below the remediation standards for BTEX (50 ppm), Benzene (10 ppm), TPH (500 ppm), and Chloride (250 ppm).

3.4 December 22, 2011 Sampling Event

On December 22, 2011, LAI collected random five part soil composite samples from Cells 17 through 21, 25, and 26. The results of the composite treatment samples were below the remediation standards for BTEX (50 ppm), Benzene (10 ppm), TPH (500 ppm), and Chloride (250 ppm).

4.0 Vadose Zone Samples

Samples were collected from the vadose zone from cells 17, 18, 19, 20, 21, 25, and 26 were collected by LAI personnel on March 8, June 21, August 29, and December 22, 2011. The samples were collected using a jam tube and air rotary drill rig. Samples were collected between approximately 5 and 6 feet below the Cells. The samples were placed in pre-cleaned 4-ounce jars. Properly labeled and placed on ice upon collection and submitted to DHL.

The vadose zone samples were analyzed for the following constituents:

- BTEX,
- Chloride,
- Metals and mercury,
- TPH, and
- TRPH.

4.1 March 8, 2011 Sampling Event

On March 8, 2011, LAI personnel contracted Scarborough Drilling, Inc. (Scarborough) to collect samples from the vadose zone for Cells 17 through 21, 25, and 26. The samples were collected from approximately 5 to 6 feet below native ground surface.

The BTEX and benzene results of the vadose samples (Cells 17 through 21, 25, and 26) were below detection limits. A summary table of the BTEX results is presented in Table 4.

The TPH results of the vadose zone samples for Cells 17 through 21, 25, and 26 were below method detection limits. TRPH was detected in Cells 17 through 21, and 25, but was not present in the TPH analysis by EPA method 8015. This may be due to interference. Table 5 presents a summary of the vadose zone TPH analysis.

Arsenic was detected in Cell 18 (3.8 ppm) above the established background level (3.79 ppm). Barium was detected in Cell 18 (602 ppm), Cell 19 (359 ppm), and Cell 21 (366 ppm) above the established background level (271 ppm). Copper was detected in Cell 17 (4.60 ppm) above the established background level (4.01 ppm).

Chloride was detected in Cells 18, 19, 20, 25, which ranged from 11.0 ppm to 50.57 ppm, and was above the established background concentration (8.89 ppm) but below 250 ppm. A summary of the vadose zone chloride results are presented in Table 7.

4.2 June 21, 2011 Sampling Event

On March 8, 2011, LAI personnel contracted Scarborough Drilling, Inc. (Scarborough) to collect samples from the vadose zone for Cells 17 through 21, 25, and 26. The samples were collected from approximately 5 to 6 feet below native ground surface.

The BTEX and benzene results of the vadose samples (Cells 17 through 21, 25, and 26) were below detection limits.

The TPH results of the vadose zone samples for Cells 17 through 21, 25, and 26 were below method detection limits. TRPH was detected in Cells 18, 19, 21, and 26, but was not present in the TPH analysis by EPA method 8015. This may be due to interference.

Arsenic was detected in Cell 17 (5.79 ppm), Cell 18 (3.98 ppm), Cell 19 (4.89 ppm), Cell 20 (5.29 ppm), Cell 21 (5.23 ppm), and Cell 26 (5.06 ppm) above the established background level (3.79 ppm). Barium was detected in Cell 17 (878 ppm), Cell 19 (459 ppm), Cell 21 (535 ppm), and Cell 26 (343 ppm) above the established background level (271 ppm).

Chloride was detected in Cells 17, 18, 19, 20, 21, 25, and 26, which ranged from 9.5 ppm to 28.9 ppm, and was above the established background concentration (8.89 ppm) but below 250 ppm.

4.3 August 29, 2011 Sampling Event

On August 29, 2011, LAI personnel contracted Scarborough Drilling, Inv. (Scarborough) to collect Samples from the vadose zone for Cells 17 through 21, 25, and 26. The samples were collected from approximately 5 to 6 feet below native ground surface.

The BTEX and benzene results of the vadose samples (Cells 17 through 21, 25, and 26) were below detection limits.

The TPH results of the vadose zone samples (Cells 17 through 21, 25, and 26) were below method detection limits. TRPH was detected in Cell 17, Cell 19, Cell 20, Cell 21, Cell 25, and Cell 26, but was not present in the TPH analysis by EPA method 8015. This may be due to interference.

Arsenic was detected in Cell 17 (4.58 ppm), Cell 18 (5.00 ppm), Cell 19 (4.72 ppm), Cell 20 (6.66 ppm), Cell 21 (5.33 ppm), Cell 25 (4.62 ppm), and Cell 26 (4.86 ppm) above the established level (3.79 ppm). Barium was detected in Cell 18 (349 ppm), Cell 20 (549 ppm), Cell 21 (340 ppm), and Cell 25 (533 ppm) above the established background level (271 ppm).

Chloride was detected in Cells 17, 18, 19, and 20, which ranged from 10.2 ppm to 202 ppm, and was above the established background concentration (8.89 ppm) but below 250 ppm.

4.4 December 22, 2011 Sampling Event

On December 22, 2011, LAI personnel contracted Scarborough Drilling, Inv. (Scarborough) to collect Samples from the vadose zone for Cells 17 through 21, 25, and 26. The samples were collected from approximately 5 to 6 feet below native ground surface.

The BTEX and benzene results of the vadose samples (Cells 17 through 21, 25, and 26) were below detection limits.

The TPH results of the vadose zone samples for Cells 17 through 20, 25, and 26 were below detection limits. TRPH was detected in Cells 19 and 20 but were not present in the TPH analysis by EPA method 8015.

Arsenic was detected in Cell 17 (5.05 ppm), Cell 18 (6.33 ppm), Cell 19 (5.71 ppm), Cell 20 (5.73 ppm), Cell 21 (5.12 ppm), Cell 25 (5.94 ppm), and Cell 26 (4.92 ppm) above the established background level (3.79 ppm). Barium was detected in Cell 18 (287 ppm), Cell 19 (293 ppm), Cell 20 (323 ppm), and Cell 25 (290 ppm) above the established background level (271 ppm).

Chloride was detected in Cells 17, 18, 19, 20, 21, 25, and 26, which ranged from 20.4 ppm to 77.9 ppm, and was above the established background concentration (8.89 ppm) but below 250 ppm.

5.0 Additional Information

Depth to groundwater is estimated between approximately 160 and 165 feet below ground surface from New Mexico Office of the State Engineer (OSE) records and monitoring wells located in the west half (W/2) of Section 15, Township 24 South, Range 36 East. The monitoring well records indicate a general lithology of unconsolidated eolian sand over a variable thickness carbonate-indurated sand (caliche) layer between approximately 23 to 60-feet below ground surface (bgs) with groundwater levels observed between 149 to 180 feet bgs. The regional direction for groundwater flow is towards the southeast.

The caliche creates an interpreditory layer for the downward migration of mobilized metals. Background and vadose samples indicate that the pH at the facility is between 7.5 and 8.2. An increased pH (basic environment) in the caliche layer would create a flocculation zone. Most metals are considered to be multivalent cations. Positively charged molecules interact with the negatively charged particles in the caliche to form aggregate. In addition, many of these analytes and compounds, under the appropriate pH (greater than 7) and conditions (temperature, pressure and salinity) will link together to form long chains or meshes, physically trapping small and fine particles thus minimizing the migration of metals.

6.0 Summary

Treatment zone soil samples from Cells 17 through 21, 25, and 26 were below action levels for TPH (method 8015M), BTEX, Benzene, and Chloride.

The background and vadose samples indicate that the pH at the facility is slightly basic. Depth to groundwater in this area is observed between 149 to 180 bgs. Monitor well borings logs from an adjacent site indicate a general lithology of unconsolidated veneer of eolian sand over variable thickness carbonate-indurated sand layer encountered at approximately 23 to 60-feet bgs. With this stratification profile and soil conditions; metals are less likely to become soluble and migration would be minimal.

Remediation of the treatment zone has been satisfied according to the guidelines set forth in the permit. Chevron will submit a closure plan to the OCD, for closure of Cells 17 through 21, 25, and 26.

Tables

Table 1

Summary of BTEX Analyses of Treatment Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Action Level (mg/Kg):								
Cell 17	17	05/21/07	0 - 1	<0.00304	<0.00506	<0.00506	<0.00506	<0.00304
		09/11/07	0 - 1	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106
		03/13/08	0 - 1	<0.00282	<0.00470	<0.00470	<0.00470	<0.00282
		03/19/08	0 - 1	<0.00264	<0.00440	<0.00440	<0.00440	<0.00264
		08/25/08	0 - 1	<0.00301	<0.00501	<0.00501	<0.00501	<0.00301
		12/09/08	0 - 1	<0.00280	<0.00467	<0.00467	<0.00467	<0.00280
		03/25/09	0 - 1	<0.00295	<0.00491	<0.00491	<0.00491	<0.00295
		12/21/09	0 - 1	<0.00302	<0.00503	<0.00503	<0.00503	<0.00302
		03/26/10	0 - 1	<0.00310	<0.00517	<0.00517	<0.00517	<0.00310
		06/11/10	0 - 1	<0.00300	<0.00501	<0.00501	<0.00501	<0.00300
		09/27/10	0 - 1	<0.00307	<0.00512	<0.00512	<0.00512	<0.00307
		12/20/10	0 - 1	<0.00299	<0.00498	<0.00498	<0.00498	<0.00299
		03/08/11	0 - 1	<0.0119	<0.00860	<0.00607	0.396	<0.0119
		06/21/11	0 - 1	<0.0120	<0.00865	<0.00611	<0.00624	<0.0120
		08/30/11	0 - 1	<0.0119	<0.00856	<0.00605	<0.00618	<0.0119
		12/22/11	0 - 1	<0.200	<0.200	<0.200	<0.200	<0.200
Cell 18	18	05/21/07	0 - 1	<0.00311	<0.00519	<0.00519	<0.00519	<0.00311
		09/11/07	0 - 1	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
		03/19/08	0 - 1	<0.00288	<0.00480	<0.00480	<0.00480	<0.00288
		08/25/08	0 - 1	<0.00268	<0.00447	<0.00447	<0.00447	<0.00268
		12/09/08	0 - 1	<0.00299	<0.00498	<0.00498	<0.00498	<0.00299
		03/25/09	0 - 1	<0.00263	<0.00438	<0.00438	<0.00438	<0.00263
		12/21/09	0 - 1	<0.00288	<0.00479	<0.00479	<0.00479	<0.00288
		03/26/10	0 - 1	<0.00273	<0.00455	<0.00455	<0.00455	<0.00273
		06/11/10	0 - 1	<0.00289	<0.00481	<0.00481	<0.00481	<0.00289
		09/27/10	0 - 1	<0.00309	<0.00514	<0.00514	<0.00514	<0.00309

Table 1

Summary of BTEX Analyses of Treatment Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Action Level (mg/kg):								
				10				50
Cell 18	18	12/20/10	0 - 1	<0.00281	<0.00469	<0.00469	<0.00469	<0.00281
		03/08/11	0 - 1	<0.0169	<0.0222	<0.0238	<0.0281	<0.0169
		06/21/11	0 - 1	<0.0119	<0.00860	<0.00607	<0.00620	<0.0119
		08/30/11	0 - 1	<0.0119	<0.00856	<0.00604	<0.00617	<0.0119
		12/22/11	0 - 1	<0.100	<0.100	<0.100	<0.100	<0.100
Cell 19	19	05/21/07	0 - 1	<0.00292	<0.00486	<0.00486	<0.00486	<0.00292
		09/11/07	0 - 1	<0.00114	<0.00114	<0.00114	<0.00114	<0.00114
		03/19/08	0 - 1	<0.00267	<0.00444	<0.00444	<0.00444	<0.00267
		08/25/08	0 - 1	<0.00312	<0.00520	<0.00520	<0.00520	<0.00312
		12/09/08	0 - 1	<0.00265	<0.00441	<0.00441	<0.00441	<0.00265
		03/25/09	0 - 1	<0.00297	<0.00495	<0.00495	<0.00495	<0.00297
		12/21/09	0 - 1	<0.00295	<0.00492	<0.00492	<0.00492	<0.00295
		03/26/10	0 - 1	<0.00307	<0.00512	<0.00512	<0.00512	<0.00307
		06/11/10	0 - 1	<0.00302	<0.00504	<0.00504	<0.00504	<0.00302
		09/27/10	0 - 1	<0.003	<0.00499	<0.00499	<0.00499	<0.003
		12/20/10	0 - 1	<0.00291	<0.00485	<0.00485	<0.00485	<0.00291
		03/08/11	0 - 1	<0.0170	<0.0223	<0.0238	<0.0282	<0.0170
		06/21/11	0 - 1	<0.0120	<0.00864	<0.00610	<0.00623	<0.0120
		08/30/11	0 - 1	<0.0119	<0.00856	<0.00604	<0.00618	<0.0119
		12/22/11	0 - 1	<0.200	<0.200	<0.200	<0.200	<0.200
Cell 20	20	05/21/07	0 - 1	<0.00312	<0.00520	<0.00520	<0.00520	<0.00312
		09/11/07	0 - 1	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
		03/19/08	0 - 1	<0.00270	<0.00450	<0.00450	<0.00450	<0.00270
		08/25/08	0 - 1	<0.00293	<0.00488	<0.00488	<0.00488	<0.00293
		12/09/08	0 - 1	<0.00294	<0.00489	<0.00489	<0.00489	<0.00294

Table 1

Summary of BTEX Analyses of Treatment Soil Samples
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W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Action Level (mg/Kg):								
				10				50
Cell 20	20	03/25/09	0 - 1	<0.00268	<0.00447	<0.00447	<0.00447	<0.00268
		12/21/09	0 - 1	<0.00291	<0.00485	<0.00485	<0.00485	<0.00291
		03/26/10	0 - 1	<0.00289	<0.00482	<0.00482	<0.00482	<0.00289
		06/11/10	0 - 1	<0.00286	<0.00476	<0.00476	<0.00476	<0.00286
		09/27/10	0 - 1	<0.00324	<0.00541	<0.00541	<0.00541	<0.00324
		12/20/10	0 - 1	<0.00287	<0.00478	<0.00478	<0.00478	<0.00287
		03/08/11	0 - 1	<0.0170	<0.0223	<0.0238	<0.0282	<0.0170
		06/21/11	0 - 1	<0.0120	<0.00866	<0.00612	<0.00625	<0.0120
		08/30/11	0 - 1	<0.0119	<0.00856	<0.00604	<0.00618	<0.0119
		12/22/11	0 - 1	<0.100	<0.100	<0.100	<0.100	<0.100
Cell 21	21	05/21/07	0 - 1	<0.00293	<0.00489	<0.00489	<0.00489	<0.00293
		09/11/07	0 - 1	<0.00113	<0.00113	<0.00113	<0.00113	<0.00113
		03/19/08	0 - 1	<0.00263	<0.00438	<0.00438	<0.00438	<0.00263
		08/25/08	0 - 1	<0.00308	<0.00513	<0.00513	<0.00513	<0.00308
		12/09/08	0 - 1	<0.00290	<0.00483	<0.00483	<0.00483	<0.00290
		03/25/09	0 - 1	<0.00268	<0.00446	<0.00446	<0.00446	<0.00268
		12/21/09	0 - 1	<0.00276	<0.00461	<0.00461	<0.00461	<0.00276
		03/26/10	0 - 1	<0.00288	<0.00480	<0.00480	<0.00480	<0.00288
		06/11/10	0 - 1	<0.00307	<0.00512	<0.00512	<0.00512	<0.00307
		09/27/10	0 - 1	<0.00352	<0.00586	<0.00586	<0.00586	<0.00352
		12/20/10	0 - 1	<0.00271	<0.00451	<0.00451	<0.00451	<0.00271
		03/08/11	0 - 1	<0.0169	<0.0222	<0.0238	<0.0281	<0.0169
		06/21/11	0 - 1	<0.0121	<0.00869	<0.00613	<0.00626	<0.0121
		08/30/11	0 - 1	<0.0120	<0.00861	<0.00608	<0.00621	<0.0120
		12/22/11	0 - 1	<0.400	<0.400	<0.400	<0.400	<0.400

Table 1

Summary of BTEX Analyses of Treatment Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Action Level (mg/Kg):								
				10				50
Cell 25	25	05/21/07	0 - 1	<0.00302	<0.00503	<0.00503	<0.00503	<0.00302
		09/11/07	0 - 1	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103
		08/25/08	0 - 1	<0.00278	<0.00463	<0.00463	<0.00463	<0.00278
		12/09/08	0 - 1	<0.00308	<0.00513	<0.00513	<0.00513	<0.00308
		03/25/09	0 - 1	<0.00265	<0.00441	<0.00441	<0.00441	<0.00265
		12/21/09	0 - 1	<0.00312	<0.00520	<0.00520	<0.00520	<0.00312
		03/26/10	0 - 1	<0.00277	<0.00462	<0.00462	<0.00462	<0.00277
		06/11/10	0 - 1	<0.00316	<0.00527	<0.00527	<0.00527	<0.00316
		09/27/10	0 - 1	<0.00305	<0.00508	<0.00508	<0.00508	<0.00305
		12/20/10	0 - 1	<0.00274	<0.00456	<0.00456	<0.00456	<0.00274
		03/08/11	0 - 1	<0.0169	<0.0222	<0.0238	<0.0281	<0.0169
		06/21/11	0 - 1	<0.0119	<0.00859	<0.00606	<0.00620	<0.0119
Cell 26	26	08/30/11	0 - 1	<0.0119	<0.00855	<0.00604	<0.00617	<0.0119
		12/22/11	0 - 1	<0.100	<0.100	<0.100	<0.100	<0.100
		02/21/07	0 - 1	<0.01	<0.01	<0.01	<0.02	<0.01
		09/11/07	0 - 1	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118
		05/21/07	0 - 1	<0.00323	<0.00539	<0.00539	<0.00539	<0.00323
		08/25/08	0 - 1	<0.00358	<0.00597	<0.00597	<0.00597	<0.00358
		12/09/08	0 - 1	<0.00301	<0.00501	<0.00501	<0.00501	<0.00301
		03/25/09	0 - 1	<0.00268	<0.00447	<0.00447	<0.00447	<0.00268
		12/21/09	0 - 1	<0.00296	<0.00494	<0.00494	<0.00494	<0.00296
		03/26/10	0 - 1	<0.00300	<0.00501	<0.00501	<0.00501	<0.00300
		06/11/10	0 - 1	<0.00385	<0.00642	<0.00642	<0.00642	<0.00385
		09/27/10	0 - 1	<0.00336	<0.00559	<0.00559	<0.00559	<0.00336
		12/20/10	0 - 1	<0.00289	<0.00481	<0.00481	<0.00481	<0.00289
		03/08/11	0 - 1	<0.0169	<0.0222	<0.0237	<0.0281	<0.0169

Table 1

Summary of BTEX Analyses of Treatment Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Action Level (mg/Kg):				10				50
Cell 26	26	06/21/11	0 - 1	<0.0120	<0.00863	<0.00609	<0.00622	<0.0120
		08/30/11	0 - 1	<0.0119	<0.00857	<0.00605	<0.00618	<0.0119
		12/22/11	0 - 1	<0.400	<0.400	<0.400	<0.400	<0.400

Notes:

Samples were analyzed by DHL Analytical, Inc., Round Rock, TX and Trace Analysis, Midland, TX

BTEX analysis was performed by SW846 method 8021B

Results are reported in milligram per Kilograms (mg/Kg).

1. <: Less than method detection limit

Table 2

Summary of TPH Analysis of Treatment Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	TRPH 418.1	TPH - GRO C6-C10	TPH - DRO C10-C28	Total TPH	Chloride
Action Level (mg/Kg):				2500			500	250
Cell 17	17	05/21/07	0 - 1	108	<0.0635	27.7	27.7	--
		09/11/08	0 - 1	--	<0.0645	233	233	361
		03/13/08	0 - 1	216	--	--	--	42.4
		03/19/08	0 - 1	1090	<0.0519	470	470	--
		08/25/08	0 - 1	68.1	<0.0609	210	210	--
		12/09/08	0 - 1	169	<0.0578	206	206	34.7
		03/25/09	0 - 1	166	<0.0521	120	120	19.5
		12/21/09	0 - 1	73.2	<0.101	119	119	135
		03/26/10	0 - 1	53.7	<0.0977	90.4	90.4	11.0
		06/11/10	0 - 1	43.0	<0.103	113	113	67.4
		09/27/10	0 - 1	33.1	<0.109	46.1	46.1	<5.46
		12/20/10	0 - 1	23.5	<0.100	55.8	55.8	96.2
		03/08/11	0 - 1	429.0	<0.762	88.1	88.1	6.4
		06/21/11	0 - 1	142.0	<0.767	23.6	23.6	26.8
		08/30/11	0 - 1	180.0	<0.759	30.5	30.5	73.8
		12/22/11	0 - 1	41.7	<20.0	<50.0	<50.0	12.2
Cell 18	18	05/21/07	0 - 1	456	<0.0594	418	418	--
		09/11/07	0 - 1	--	<0.0615	695	695	<5.78
		03/19/08	0 - 1	787	<0.0546	422	422	--
		08/25/08	0 - 1	219	<0.0587	167	167	--
		12/09/08	0 - 1	525	<0.0576	207	207	<4.99
		03/25/09	0 - 1	212	<0.0524	93.0	93.0	8.19
		12/21/09	0 - 1	274	<0.0934	127	127	<5.07
		03/26/10	0 - 1	201	<0.102	96.7	96.7	<5.17
		06/11/10	0 - 1	203	<0.0942	230	230	<5.22
		09/27/10	0 - 1	31.0	<0.101	58.0	58.0	<5.27

Table 2

Summary of TPH Analysis of Treatment Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	TRPH 418.1	TPH - GRO C6-C10	TPH - DRO C10-C28	Total TPH	Chloride
Action Level (mg/Kg):				2500			500	250
Cell 18	18	12/20/10	0 - 1	250	<0.0955	145	145.0	18.0
		03/08/11	0 - 1	150	<2.25	40	40	5.6
		06/21/11	0 - 1	296	<0.762	<17.3	<17.3	11.9
		08/30/11	0 - 1	413	<0.758	79.2	79.2	8
		12/22/11	0 - 1	139	<10.0	<50.0	<50.0	11.5
Cell 19	19	05/21/07	0 - 1	109	<0.0597	11.7	11.7	--
		09/11/07	0 - 1	--	<0.0620	272	272	5.91
		03/19/08	0 - 1	512	<0.0552	401	401	--
		08/25/08	0 - 1	85.8	<0.0552	96.6	96.6	--
		12/09/08	0 - 1	159	<0.0552	52.6	52.6	20.2
		03/25/09	0 - 1	225	<0.0591	64.2	64.2	32.5
		12/21/09	0 - 1	76.8	<0.0965	73.4	73.4	24.6
		03/26/10	0 - 1	128	<0.100	58.6	58.6	5.41
		06/11/10	0 - 1	175	<0.101	126	126	25.0
		09/27/10	0 - 1	44.0	<0.0979	24.7	24.7	11.3
		12/20/10	0 - 1	28.6	<0.100	101	101	53.2
		03/08/11	0 - 1	65.5	<2.26	23	23	175.0
		06/21/11	0 - 1	332.0	<0.766	18	18	89.9
		08/30/11	0 - 1	159.0	<0.759	<14.6	<14.6	121.0
		12/22/11	0 - 1	111.0	<20.0	<50.0	<50.0	19.1
Cell 20	20	05/21/07	0 - 1	527	<0.0567	30.2	30.2	--
		09/11/07	0 - 1	--	<0.0614	403	403	14.6
		03/19/08	0 - 1	169	<0.0541	171	171	--
		08/25/08	0 - 1	39.2	<0.0593	64.3	64.3	--
		12/09/08	0 - 1	126	<0.0620	44.3	44.3	35.8

Table 2

Summary of TPH Analysis of Treatment Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	TRPH 418.1	TPH - GRO C6-C10	TPH - DRO C10-C28	Total TPH	Chloride
Action Level (mg/Kg):				2500			500	250
Cell 20	20	03/25/09	0 - 1	256	<0.0540	33.1	33.1	50.9
		12/21/09	0 - 1	46.8	<0.101	49.9	49.9	30.8
		03/26/10	0 - 1	47.7	<0.0947	20.7	20.7	11.5
		06/11/10	0 - 1	30.3	<0.100	30.9	30.9	32.0
		09/27/10	0 - 1	13.3	<0.107	18.7	18.7	6.66
		12/20/10	0 - 1	30.3	<0.103	24.2	24.2	23.4
		03/08/11	0 - 1	104.0	<2.26	24.2	24.2	10.2
		06/21/11	0 - 1	84.8	<0.768	<17.4	<17.4	55.9
		08/30/11	0 - 1	127.0	<0.759	<14.6	<14.6	30.6
		12/22/11	0 - 1	157.0	<10.0	<50.0	<50.0	45.9
Cell 21	21	05/21/07	0 - 1	389	<0.0611	15.4	15.4	--
		09/11/07	0 - 1	--	<0.0638	838	838	<5.67
		03/19/08	0 - 1	434	<0.0564	359	359	--
		08/25/08	0 - 1	157	<0.0599	210	210	--
		12/09/08	0 - 1	1780	<0.0567	271	271	<5.06
		03/25/09	0 - 1	678	<0.0561	90.1	90.1	14.5
		12/21/09	0 - 1	680	<0.0952	135	135	<5.13
		03/26/10	0 - 1	335	<0.0925	132	132	<5.12
		06/11/10	0 - 1	268	<0.103	249	249	<5.22
		09/27/10	0 - 1	177	<0.111	82.3	82.3	<6.04
		12/20/10	0 - 1	250	<0.0951	203	203	<5.08
		03/08/11	0 - 1	784	<2.25	104	104	5.96
		06/21/11	0 - 1	498	<0.770	45	45	8.99
		08/30/11	0 - 1	400	<0.763	118	118	6.04
		12/22/11	0 - 1	253	<40.0	<50.0	<50.0	11.4

Table 2

Summary of TPH Analysis of Treatment Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	TRPH 418.1	TPH - GRO C6-C10	TPH - DRO C10-C28	Total TPH	Chloride
Action Level (mg/Kg):				2500			500	250
Cell 25	25	05/21/07	0 - 1	85.9	<0.0607	2.97	2.97	--
		09/11/07	0 - 1	--	<0.0618	166	166	128
		08/25/08	0 - 1	115	<0.0557	96.5	96.5	--
		12/09/08	0 - 1	107	<0.0555	66.2	66.2	<5.13
		03/25/09	0 - 1	96.6	<0.0530	26.8	26.8	13.2
		12/21/09	0 - 1	85.9	<0.0946	59.2	59.2	<5.18
		03/26/10	0 - 1	89.8	<0.0975	49.2	49.2	<5.09
		06/11/10	0 - 1	36.3	<0.110	43.4	43.4	<5.54
		09/27/10	0 - 1	87.4	<0.0949	44.7	44.7	<5.25
		12/20/10	0 - 1	68.7	<0.0955	66.5	66.5	<5.09
		03/08/11	0 - 1	66.2	<2.25	<15.8	<15.8	5.37
		06/21/11	0 - 1	96.5	<0.761	<17.3	<17.3	8.88
Cell 26	26	08/30/11	0 - 1	149.0	<0.758	<14.6	<14.6	5.42
		12/22/11	0 - 1	129.0	<10.0	<50.0	<50.0	21.1
		02/21/07	0 - 1	3450	<1	726	726	--
		05/21/07	0 - 1	59.3	<0.0591	4.98	4.98	--
		09/11/07	0 - 1	--	<0.0696	455	455	<5.92
		08/25/08	0 - 1	16.7	<0.0663	116	116	--
		12/09/08	0 - 1	226	<0.0543	32.0	32.0	<5.07
		03/25/09	0 - 1	1260	<0.0596	202	202	8.61
		12/21/09	0 - 1	201	<0.103	77.4	77.4	<5.21
		03/26/10	0 - 1	107	<0.100	40.8	40.8	<5.21
		06/11/10	0 - 1	12.1	<0.126	45.1	45.1	<6.53
		09/27/10	0 - 1	135	<0.118	93.1	93.1	<6.01
		12/20/10	0 - 1	157	<0.0990	79.2	79.2	<5.14
		03/08/11	0 - 1	98.8	<2.25	30.8	30.8	7.99

Table 2

Summary of TPH Analysis of Treatment Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	TRPH 418.1	TPH - GRO C6-C10	TPH - DRO C10-C28	Total TPH	Chloride
Action Level (mg/kg):				2500			500	250
Cell 26	26	06/21/11	0 - 1	232.0	<0.765	<17.4	<17.4	8.95
		08/30/11	0 - 1	194.0	<0.759	19.3	19.3	4.95
		12/22/11	0 - 1	279	<40.0	<50.0	<50.0	11.4

Notes:

Samples were analyzed by DHL Analytical, Inc., Round Rock, TX and Trace Analysis, Midland, TX

Results are reported in milligram per Kilograms (mg/Kg).

GRO and DRO analyses were performed by SW846 method 8015

TRPH analysis was performed by EPA method 418.1

1. <:

Less than method detection limit

Table 3

Summary of Metals Analysis of Treatment Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc
Background Level (3/25/09):															
Cell 17	17	03/25/09	0 - 1	2.99	119	0.167	7.89	3.99	7,160	6.34	76.5	0.0168	1.83	<0.0912	21.5
		03/26/10	0 - 1	2.34	100	0.251	9.27	4.51	6,770	6.41	97.5	<0.0161	0.671	<0.0980	21.3
WQCC Level:															
Cell 17 SPLP	17	03/26/10	0 - 1	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
				--	--	<0.0003	<0.002	<0.002	--	<0.0003	<0.003	--	--	--	<0.002
Cell 18	18	03/25/09	0 - 1	2.68	108	0.132	6.81	3.41	5,690	6.00	61.3	<0.0148	1.55	<0.0861	17.2
		03/26/10	0 - 1	2.92	120	0.237	22.0	10.7	7,500	17.2	92.8	<0.0161	0.512	<0.0962	26.4
WQCC Level:															
Cell 18 SPLP	18	03/26/10	0 - 1	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
				--	--	<0.0003	<0.002	0.00298	--	0.002	0.0137	--	--	--	0.00838
Cell 19	19	03/25/09	0 - 1	2.65	173	0.159	6.93	2.42	6,210	3.96	45.3	<0.0147	1.41	<0.0899	15.6
		03/26/10	0 - 1	2.41	133	0.171	8.39	2.59	5,750	4.23	56.5	<0.0153	0.501	<0.971	17.0
WQCC Level:															
Cell 19 SPLP	19	03/26/10	0 - 1	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
				--	--	--	--	--	--	--	<0.003	--	--	--	--
Cell 20	20	03/25/09	0 - 1	2.43	173	0.162	6.48	1.92	5,670	3.42	43.3	<0.0138	1.51	<0.0901	19.5
		03/26/10	0 - 1	1.88	179	0.140	6.65	1.97	4,290	3.09	51.0	<0.0162	0.386	<0.0952	10.2
Cell 21	21	03/25/09	0 - 1	2.96	114	0.187	8.17	3.22	6,480	7.41	58.4	<0.0143	1.63	<0.0900	23.4
		09/30/09	0 - 6"	--	--	--	--	--	--	12.5	--	--	--	--	20.4
		03/26/10	0 - 1	2.86	146	0.244	8.57	4.35	5,780	11.6	72.1	<0.0142	0.665	<0.0952	24.4
WQCC Level:															
Cell 21 SPLP	21	03/26/10	0 - 1	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
				--	--	<0.0003	--	0.00293	--	0.00086	--	--	--	--	0.00539
Cell 25	25	03/25/09	0 - 1	2.41	103	0.171	6.68	2.58	6,090	4.42	57.4	<0.0143	1.64	<0.100	22.9

Table 3

Summary of Metals Analysis of Treatment Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc
Background Level (3/25/09):															
Cell 25	25	03/26/10	0 - 1	2.78	80.5	0.438	14.8	3.55	5,240	5.27	70.0	<0.0155	0.768	0.241	116
WQCC Level:															
Cell 25 SPLP	25	03/26/10	0 - 1	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
				--	--	<0.0003	<0.002	--	--	0.00108	--	--	--	<0.001	0.0104
Cell 26	26	03/25/09	0 - 1	2.63	54.1	0.158	7.60	3.59	7,500	5.01	80.9	<0.0152	2.03	<0.0864	19.8
		03/26/10	0 - 1	2.39	62.5	0.226	9.17	4.44	6,660	5.43	104	<0.0159	0.75	<0.0840	20.9
WQCC Level:															
Cell 26 SPLP	26	03/26/10	0 - 1	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
				--	--	<0.0003	--	0.00336	--	0.00231	0.0446	--	--	--	0.0150

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX

Results are reported in milligram per Kilograms (mg/kg).

Metals analysis was performed by SW846 method 6020

Mercury analysis was performed by SW846 method 7471A

1. <: Less than method detection limit

Table 4

Summary of BTEX Analyses of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Background Level (3/25/09):				<0.00313	<0.00521	<0.00521	<0.00521	<0.01876
WQCC Level:				10				50
Cell 17	17	05/22/07	2 - 3	<0.00354	<0.00590	<0.00590	<0.00590	<0.00354
		09/13/07	2 - 3	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112
		03/19/08	2 - 3	<0.00319	<0.00531	<0.00531	<0.00531	<0.00319
		08/26/08	2 - 3	<0.00318	<0.00530	<0.00530	<0.00530	<0.00318
		12/08/08	2 - 3	<0.00386	<0.00643	<0.00643	<0.00643	<0.00386
		03/25/09	2 - 3	<0.00289	<0.00481	<0.00481	<0.00481	<0.00289
		10/01/09	2 - 3	<0.00361	<0.00601	<0.00601	<0.00601	<0.00361
		12/21/09	2 - 3	<0.0342	<0.00571	<0.00571	<0.00571	<0.0342
		03/31/10	4 - 5	<0.00313	<0.00521	<0.00521	<0.00521	<0.00313
		06/14/10	5 - 6	<0.00295	<0.00491	<0.00491	<0.00491	<0.00295
		09/27/10	5 - 6	<0.00334	<0.00557	<0.00557	<0.00557	<0.00334
		12/23/10	5 - 6	<0.00310	<0.00517	<0.00517	<0.00517	<0.00310
Cell 18	18	03/08/11	5 - 6	<0.00355	<0.00466	<0.00499	<0.00590	<0.00355
		06/21/11	5 - 6	<0.0121	<0.00872	<0.00616	<0.00629	<0.0121
		08/29/11	5 - 6	<0.0123	<0.00889	<0.00628	<0.00641	<0.0123
		12/22/11	5 - 6	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
		05/22/07	2 - 3	<0.00306	<0.00510	<0.00510	<0.00510	<0.00306
		09/13/07	2 - 3	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101
		03/19/08	2 - 3	<0.00302	<0.00503	<0.00503	<0.00503	<0.00302
		08/25/08	2 - 3	<0.00305	<0.00509	<0.00509	<0.00509	<0.00305
		12/08/08	2 - 3	<0.00286	<0.00477	<0.00477	<0.00477	<0.00286
		03/25/09	2 - 3	<0.00311	<0.00519	<0.00519	<0.00519	<0.00311
		10/01/09	2 - 3	<0.00324	<0.00540	<0.00540	<0.00540	<0.00324
		12/21/09	2 - 3	<0.00310	<0.00517	<0.00517	<0.00517	<0.00310
		03/31/10	4 - 5	<0.00319	<0.00532	<0.00532	<0.00532	<0.00319

Table 4

Summary of BTEX Analyses of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Background Level (3/25/09):				<0.00313	<0.00521	<0.00521	<0.00521	<0.01876
WQCC Level:				10	10	10	10	50
Cell 18	18	06/14/10	5 - 6	<0.00333	<0.00556	<0.00556	<0.00556	<0.00333
		09/27/10	5 - 6	<0.00315	<0.00524	<0.00524	<0.00524	<0.00315
		12/23/10	5 - 6	<0.00340	<0.00566	<0.00566	<0.00566	<0.00340
		03/08/11	5 - 6	<0.0189	<0.0248	<0.0266	<0.0314	<0.0189
		06/21/11	5 - 6	<0.0132	<0.00949	<0.00670	<0.00684	<0.0132
		08/29/11	5 - 6	<0.0129	<0.00932	<0.00658	<0.00672	<0.0129
		12/22/11	5 - 6	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Cell 19	19	05/22/07	2 - 3	<0.00294	<0.00491	<0.00491	<0.00491	<0.00294
		09/13/07	2 - 3	<0.00107	<0.00107	<0.00107	<0.00107	<0.00107
		03/19/08	2 - 3	<0.00282	<0.00470	<0.00470	<0.00470	<0.00282
		08/25/08	2 - 3	<0.00307	<0.00512	<0.00512	<0.00512	<0.00307
		12/08/08	2 - 3	<0.00311	<0.00519	<0.00519	<0.00519	<0.00311
		03/25/09	2 - 3	<0.00318	<0.00530	<0.00530	<0.00530	<0.00318
		10/01/09	2 - 3	<0.00325	<0.00541	<0.00541	<0.00541	<0.00325
		12/21/09	2 - 3	<0.00320	<0.00534	<0.00534	<0.00534	<0.00320
		03/31/10	4 - 5	<0.00327	<0.00546	<0.00546	<0.00546	<0.00327
		06/14/10	5 - 6	<0.00329	<0.00549	<0.00549	<0.00549	<0.00329
		09/27/10	5 - 6	<0.00310	<0.00517	<0.00517	<0.00517	<0.00310
		12/23/10	5 - 6	<0.00300	<0.00500	<0.00500	<0.00500	<0.00300
		03/08/11	5 - 6	<0.00370	<0.00487	<0.00521	<0.00616	<0.00370
		06/21/11	5 - 6	<0.0134	<0.00963	<0.00680	<0.00694	<0.0134
Cell 20	20	08/29/11	5 - 6	<0.0124	<0.00892	<0.00630	<0.00644	<0.0124
		12/22/11	5 - 6	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Cell 20	20	05/22/07	2 - 3	<0.00326	<0.00543	<0.00543	<0.00543	<0.00326

Table 4

Summary of BTEX Analyses of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Background Level (3/25/09):				<0.00313	<0.00521	<0.00521	<0.00521	<0.01876
WQCC Level:				10				50
Cell 20	20	09/13/07	2 - 3	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
		03/19/08	2 - 3	<0.00302	<0.00503	<0.00503	<0.00503	<0.00302
		08/25/08	2 - 3	<0.00264	<0.00440	<0.00440	<0.00440	<0.00264
		12/08/08	2 - 3	<0.00311	<0.00518	<0.00518	<0.00518	<0.00311
		03/25/09	2 - 3	<0.00307	<0.00512	<0.00512	<0.00512	<0.00307
		10/01/09	2 - 3	<0.00307	<0.00512	<0.00512	<0.00512	<0.00307
		12/21/09	2 - 3	<0.00331	<0.00551	<0.00551	<0.00551	<0.00331
		03/31/10	4 - 5	<0.00310	<0.00516	<0.00516	<0.00516	<0.00310
		06/14/10	5 - 6	<0.00316	<0.00527	<0.00527	<0.00527	<0.00316
		09/27/10	5 - 6	<0.00327	<0.00545	<0.00545	<0.00545	<0.00327
		12/23/10	5 - 6	<0.00300	<0.00500	<0.00500	<0.00500	<0.00300
		03/08/11	5 - 6	<0.00365	<0.00480	<0.00513	<0.00607	<0.00365
		06/21/11	5 - 6	<0.0132	<0.00955	<0.00674	<0.00689	<0.0132
		08/29/11	5 - 6	<0.0124	<0.00897	<0.00633	<0.00647	<0.0124
		12/22/11	5 - 6	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Cell 21	21	05/22/07	2 - 3	<0.00346	<0.00577	<0.00577	<0.00577	<0.00346
		09/13/07	2 - 3	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
		03/19/08	2 - 3	<0.00311	<0.00519	<0.00519	<0.00519	<0.00311
		08/26/08	2 - 3	<0.00318	<0.00530	<0.00530	<0.00530	<0.00318
		12/08/08	2 - 3	<0.00303	<0.00505	<0.00505	<0.00505	<0.00303
		03/25/09	2 - 3	<0.00308	<0.00514	<0.00514	<0.00514	<0.00308
		10/01/09	2 - 3	<0.00351	<0.00584	<0.00584	<0.00584	<0.00351
		12/21/09	2 - 3	<0.00301	<0.00501	<0.00501	<0.00501	<0.00301
		03/31/10	4 - 5	<0.00300	<0.00500	<0.00500	<0.00500	<0.00300
		06/14/10	5 - 6	<0.00317	<0.00528	<0.00528	<0.00528	<0.00317

Table 4

Summary of BTEX Analyses of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Background Level (3/25/09):				<0.00313	<0.00521	<0.00521	<0.00521	<0.01876
WQCC Level:				10				50
Cell 21	21	09/27/10	5 - 6	<0.00313	<0.00522	<0.00522	<0.00522	<0.00313
		12/23/10	5 - 6	<0.00319	<0.00532	<0.00532	<0.00532	<0.00319
		03/08/11	5 - 6	<0.00368	<0.00484	<0.00518	<0.00612	<0.00368
		06/21/11	5 - 6	<0.0129	<0.00927	<0.00655	<0.00669	<0.0129
		08/29/11	5 - 6	<0.0122	<0.00876	<0.00618	<0.00632	<0.0122
		12/22/11	5 - 6	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cell 25	25	05/22/07	2 - 3	<0.00281	<0.00468	<0.00468	<0.00468	<0.00281
		09/13/07	2 - 3	<0.000928	<0.000928	<0.000928	<0.000928	<0.000928
		08/25/08	2 - 3	<0.00302	<0.00504	<0.00504	<0.00504	<0.00302
		12/08/08	2 - 3	<0.00326	<0.00543	<0.00543	<0.00543	<0.00326
		03/25/09	2 - 3	<0.00302	<0.00504	<0.00504	<0.00504	<0.00302
		10/01/09	2 - 3	<0.00308	<0.00513	<0.00513	<0.00513	<0.00308
		12/21/09	2 - 3	<0.00323	<0.00538	<0.00538	<0.00538	<0.00323
		03/31/10	4 - 5	<0.00319	<0.00532	<0.00532	<0.00532	<0.00319
		06/14/10	5 - 6	<0.00293	<0.00489	<0.00489	<0.00489	<0.00293
		09/27/10	5 - 6	<0.00308	<0.00514	<0.00514	<0.00514	<0.00308
		12/23/10	5 - 6	<0.00324	<0.00540	<0.00540	<0.00540	<0.00324
		03/08/11	5 - 6	<0.00376	<0.00493	<0.00528	<0.00624	<0.00376
		06/21/11	5 - 6	<0.0132	<0.00948	<0.00669	<0.00683	<0.0132
		08/29/11	5 - 6	<0.0126	<0.00906	<0.00640	<0.00654	<0.0126
		12/22/11	5 - 6	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cell 26	26	05/22/07	2 - 3	<0.00295	<0.00492	<0.00492	<0.00492	<0.00295
		09/13/07	2 - 3	<0.00108	<0.00108	<0.00108	<0.00108	<0.00108
		08/26/08	2 - 3	<0.00315	<0.00525	<0.00525	<0.00525	<0.00315

Table 4

Summary of BTEX Analyses of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Sample Depth (Feet)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX
Background Level (3/25/09):				<0.00313	<0.00521	<0.00521	<0.00521	<0.01876
WQCC Level:				10				50
Cell 26	26	09/25/08	2 - 3	<0.00295	<0.00492	<0.00492	<0.00492	<0.00295
		12/08/08	2 - 3	<0.00309	<0.00515	<0.00515	<0.00515	<0.00309
		03/25/09	2 - 3	<0.00323	<0.00538	<0.00538	<0.00538	<0.00323
		10/01/09	2 - 3	<0.00355	<0.00591	<0.00591	<0.00591	<0.00355
		12/21/09	2 - 3	<0.00332	<0.00553	<0.00553	<0.00553	<0.00332
		03/31/10	4 - 5	<0.00341	<0.00568	<0.00568	<0.00568	<0.00341
		06/14/10	5 - 6	<0.00324	<0.00540	<0.00540	<0.00540	<0.00324
		09/27/10	5 - 6	<0.00319	<0.00532	<0.00532	<0.00532	<0.00319
		12/23/10	5 - 6	<0.00302	<0.00503	<0.00503	<0.00503	<0.00302
		03/08/11	5 - 6	<0.00375	<0.00493	<0.00527	<0.00524	<0.00375
		06/21/11	5 - 6	<0.0126	<0.00905	<0.00639	<0.00652	<0.0126
		08/29/11	5-6	<0.0133	<0.00958	<0.00676	<0.00691	<0.0133
		12/22/11	5 - 6	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX and Trace Analysis, Midland, TX

Results are reported in milligram per Kilograms (mg/Kg).

BTEX analysis was performed by SW846 method 8021B

1. <: Less than method detection limit

Table 5
Summary of TPH Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	TRPH	TPH - GRO C6-C10	TPH - DRO C10-C28	Total TPH
Background Level (3/25/09):				<5.30	<0.0632	<3.05	<3.1132
WQCC Level:				500			500
Cell 17	17	05/22/07	2 - 3	149	<0.0161	60.4	60.4
		03/19/08	2 - 3	<5.82	<0.0604	<1.69	ND
		08/26/08	2 - 3	<5.49	<0.0633	<9.10	ND
		12/08/08	2 - 3	<6.11	<0.0772	3.49	3.49
		03/25/09	2 - 3	<5.54	<0.0772	<3.19	ND
		10/01/09	2 - 3	<6.12	<0.115	<4.59	ND
		12/21/09	2 - 3	<11.4	<0.110	<3.34	ND
		03/31/10	4 - 5	<5.28	<0.104	<3.16	ND
		06/14/10	5 - 6	<5.44	<0.0971	<3.12	ND
		09/27/10	5 - 6	<5.77	<0.103	<3.41	ND
		12/23/10	5 - 6	<5.56	<0.0994	<11.0	ND
		03/08/11	5 - 6	31.7	<0.473	<16.6	ND
		06/21/11	5 - 6	<4.92	<0.773	<17.5	ND
		08/29/11	5 - 6	8.72	<0.788	<15.2	ND
		12/22/11	5 - 6	<4.79	<0.466	<14.5	ND
Cell 18	18	05/22/07	2 - 3	<5.84	<0.0608	<3.09	ND
		03/19/08	2 - 3	16.5	<0.0561	1.72	1.72
		08/25/08	2 - 3	<5.43	<0.0575	16.7	16.7
		12/08/08	2 - 3	730	<0.0646	111	111
		01/20/09	2 - 3	23.0	<0.0557	54.5	54.5
		03/25/09	2 - 3	<5.55	<0.0707	<3.35	ND
		10/01/09	2 - 3	<5.78	<0.104	<4.39	ND
		12/21/09	2 - 3	55.7	<0.105	19.6	19.6
		03/31/10	4 - 5	<5.85	<0.112	<3.29	ND
		06/14/10	5 - 6	<5.97	<0.119	<3.40	ND
		09/27/10	5 - 6	<5.93	<0.111	<3.35	ND
		12/23/10	5 - 6	<5.89	<0.113	<11.4	ND
		03/08/11	5 - 6	106.0	<2.52	<17.7	ND
		06/21/11	5 - 6	7.72	<0.840	<19.1	ND
		08/29/11	5 - 6	<5.25	<0.826	<15.9	ND
		12/22/11	5 - 6	<4.79	<.446	<14.5	ND
Cell 19	19	05/22/07	2 - 3	47.5	<0.0614	<3.14	ND
		03/19/08	2 - 3	<5.30	<0.0595	2.15	2.15
		08/25/08	2 - 3	<5.21	<0.0602	<9.29	ND
		12/08/08	2 - 3	<5.38	<0.0597	3.61	3.61

Table 5
Summary of TPH Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	TRPH	TPH - GRO C6-C10	TPH - DRO C10-C28	Total TPH
Background Level (3/25/09):				<5.30	<0.0632	<3.05	<3.1132
WQCC Level:				500			500
Cell 19	19	03/25/09	2 - 3	<5.39	<0.0662	<3.08	ND
		10/01/09	2 - 3	<5.38	<0.106	<4.01	ND
		12/21/09	2 - 3	<11.2	<0.100	<3.25	ND
		03/31/10	4 - 5	<5.55	<0.103	<3.24	ND
		06/14/10	5 - 6	<5.60	<0.101	<3.10	ND
		09/27/10	5 - 6	<5.60	<0.104	<3.28	ND
		12/23/10	5 - 6	26.8	<0.100	15.9	15.9
		03/08/11	5 - 6	34.1	<0.493	<17.4	ND
		06/21/11	5 - 6	445.0	<0.853	<19.4	ND
		08/29/11	5 - 6	63.2	<0.790	<15.2	ND
		12/22/11	5 - 6	6.52	<0.446	<14.5	ND
Cell 20	20	05/22/07	2 - 3	<5.59	<0.0598	<2.98	ND
		03/19/08	2 - 3	<5.79	<0.0636	<1.68	ND
		08/25/08	2 - 3	<5.07	<0.0558	<8.50	ND
		12/08/08	2 - 3	<5.35	<0.0603	3.24	3.24
		03/25/09	2 - 3	<5.86	<0.0785	<3.54	ND
		10/01/09	2 - 3	<5.39	<0.104	<4.15	ND
		12/21/09	2 - 3	<11.4	<0.106	<3.38	ND
		03/31/10	4 - 5	<5.46	<0.0994	<3.11	ND
		06/14/10	5 - 6	<5.70	<0.107	<3.25	ND
		09/27/10	5 - 6	<5.47	<0.108	<3.15	ND
		12/23/10	5 - 6	15.5	<0.0991	12.8	12.8
		03/08/11	5 - 6	10.6	<0.486	<17.1	ND
		06/21/11	5 - 6	<5.38	<0.846	<19.2	ND
		08/29/11	5 - 6	86.4	<0.794	<15.3	ND
		12/22/11	5 - 6	10.8	<0.446	<14.5	ND
Cell 21	21	05/22/07	2 - 3	<5.73	<0.0633	<3.23	ND
		03/19/08	2 - 3	<5.57	<0.0579	1.87	1.87
		08/26/08	2 - 3	15.5	<0.0611	44.5	44.5
		12/08/08	2 - 3	65.2	<0.0585	24.5	24.5
		03/25/09	2 - 3	<5.34	<0.0705	<3.18	ND
		10/01/09	2 - 3	<6.37	<0.116	<4.79	ND
		12/21/09	2 - 3	<10.4	<0.102	<3.21	ND
		03/31/10	4 - 5	317	<0.106	62.3	62.3
		06/14/10	5 - 6	<5.74	<0.113	<3.33	ND

Table 5
Summary of TPH Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	TRPH	TPH - GRO C6-C10	TPH - DRO C10-C28	Total TPH
Background Level (3/25/09):				<5.30	<0.0632	<3.05	<3.1132
WQCC Level:				500			500
Cell 21	21	09/27/10	5 - 6	<5.70	<0.110	<3.29	ND
		12/23/10	5 - 6	49.4	<0.102	<11.1	ND
		03/08/11	5 - 6	45.7	<0.490	<17.3	ND
		06/21/11	5 - 6	10.2	<0.822	<18.6	ND
		08/29/11	5 - 6	295	<0.776	<14.9	ND
		12/22/11	5 - 6	133	<0.446	25.50	25.50
Cell 25	25	05/22/07	2 - 3	<5.50	<0.0574	<3.04	ND
		08/25/08	2 - 3	<5.25	<0.0565	<9.36	ND
		12/08/08	2 - 3	<5.61	<0.0657	9.58	9.58
		03/25/09	2 - 3	<5.45	<0.0665	<3.14	ND
		10/01/09	2 - 3	<5.72	<0.113	<4.53	ND
		12/21/09	2 - 3	<11.2	<0.104	<3.23	ND
		03/31/10	4 - 5	<5.50	<0.0988	<3.25	ND
		06/14/10	5 - 6	<5.53	<0.105	<3.24	ND
		09/27/10	5 - 6	<5.48	<0.107	<3.21	ND
		12/23/10	5 - 6	<5.72	<0.110	<11.1	ND
		03/08/11	5 - 6	7.1	<0.500	<17.6	ND
		06/21/11	5 - 6	<5.34	<0.839	<19.1	ND
		08/29/11	5 - 6	6.71	<0.803	<15.5	ND
		12/22/11	5 - 6	<4.79	<0.446	<14.5	ND
Cell 26	26	05/22/07	2 - 3	<5.81	<0.0609	<3.41	ND
		08/26/08	2 - 3	386	<0.0619	175	175
		09/25/08	2 - 3	<5.2	<0.0617	<3.27	ND
		12/08/08	2 - 3	12.4	<0.0664	18.6	18.6
		03/25/09	2 - 3	<5.74	<0.0787	<3.29	ND
		10/01/09	2 - 3	<5.72	<0.113	<4.53	ND
		12/21/09	2 - 3	<11.0	<0.0973	<3.27	ND
		03/31/10	4 - 5	<5.76	<0.109	<3.38	ND
		06/14/10	5 - 6	<5.74	<0.111	<3.32	ND
		09/27/10	5 - 6	<5.50	<0.103	<3.21	ND
		12/23/10	5 - 6	<5.63	<0.105	<11.2	ND
		03/08/11	5 - 6	<5.36	<0.499	<17.6	ND

Table 5
Summary of TPH Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	TRPH	TPH - GRO C6-C10	TPH - DRO C10-C28	Total TPH
Background Level (3/25/09):				<5.30	<0.0632	<3.05	<3.1132
WQCC Level:				500			500
Cell 26	26	06/21/11	5 - 6	51.6	<0.802	<18.2	ND
		08/29/11	5 - 6	36.2	<0.849	<16.3	ND
		12/22/11	5 - 6	9.74	<0.446	<14.5	ND

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX and Trace Analysis, Midland, TX

Results are reported in milligram per Kilograms (mg/Kg).

GRO and DRO analyses were performed by SW846 method 8015

TRPH analysis was performed by EPA method 418.1

1. <: Less than method detection limit

Table 6

Summary of Metals Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Zinc
Background Level (3/25/09):														
Cell 17	17	05/22/07	2 - 3	3.30	164	0.188	7.90	--	--	4.360	0.0171	0.866	<0.107	--
		03/19/08	2 - 3	5.22	356	<0.113	1.09	--	--	0.591	<0.0180	0.407	<0.113	--
		08/26/08	2 - 3	2.87	213	0.138	3.19	--	--	1.67	<0.0155	0.716	<0.109	--
		03/25/09	2 - 3	4.43	1,330	0.182	3.64	2.17	2,440	1.93	<0.0169	1.35	<0.0997	6.94
		06/26/09	3 - 4	--	325	--	--	--	--	--	--	--	--	--
		10/01/09	2 - 3	3.78	478	--	3.46	1.97	3,540	2.11	--	1.02	--	6.44
		12/21/09	2 - 3	2.96	353	0.140	4.07	--	--	2.13	<0.0164	0.704	<0.106	--
		03/31/10	4 - 5	3.84	452	0.104	3.38	2.95	2,220	1.70	<0.0161	0.380	<0.101	6.09
		06/14/10	5 - 6	2.63	232	0.107	3.86	1.65	3,710	2.42	<0.0164	0.462	<0.105	9.59
		09/27/10	5 - 6	2.41	99.2	0.159	6.33	2.68	5,360	3.30	<0.0160	0.503	<0.113	11.30
		12/23/10	5 - 6	4.24	369	<0.108	3.45	2.23	2,460	1.49	<0.0161	0.319	<0.108	7.34
		03/08/11	5 - 6	3.20	242	BRL	3.70	4.60	2,740	2.90	0.00648	BRL	BRL	11.30
		06/21/11	5 - 6	5.79	878	0.043	1.96	1.60	2,380	<0.0929	0.00552	<0.306	<0.0682	5.81
		08/29/11	5 - 6	4.58	169	<0.0232	4.00	2.43	3,300	<0.0947	0.00685	<0.312	<0.0696	14.20
		12/22/11	5 - 6	5.05	252	<0.0558	3.01	2.14	3,100	<0.196	0.00568	<0.212	<0.500	10.70
WQCC Level:														
Cell 17 SPLP	17	03/31/10	4 - 5	<0.002	0.105	--	--	<0.002	<0.05	--	--	--	--	--
Cell 18	18	05/22/07	2 - 3	4.70	717	0.183	3.41	--	--	1.75	<0.0186	0.635	<0.104	--
		03/19/08	2 - 3	3.18	139	0.168	4.53	--	--	3.08	<0.0167	0.987	<0.0911	--
		08/25/08	2 - 3	3.91	149	0.172	3.97	--	--	3.48	<0.0164	0.897	<0.109	--
		03/25/09	2 - 3	4.81	730	<0.112	3.46	2.25	2,200	1.36	<0.0156	0.909	<0.112	10.2
		06/26/09	3 - 4	--	390	--	--	--	--	--	--	--	--	--
		10/01/09	2 - 3	3.64	352	--	2.15	1.26	1,870	1.22	--	0.659	--	3.05

Table 6

Summary of Metals Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)

W/2 of Section 17, Township 24 South, Range 36 East

Lea County, New Mexico

Sample	Cell Number	Date	Depth	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Zinc
Background Level (3/25/09):														
Cell 18	18	12/21/09	2 - 3	2.59	82.1	0.153	7.32	--	--	5.92	<0.0149	1.11	<0.0969	--
		03/31/10	4 - 5	2.66	222	<0.108	4.32	3.11	3,140	2.00	<0.0171	0.448	<0.108	9.39
		06/14/10	5 - 6	8.40	856	<0.108	3.50	5.60	2,440	1.49	<0.0210	0.387	<0.108	7.26
		09/27/10	5 - 6	2.94	546	<0.113	2.46	1.66	1,800	1.23	<0.0187	0.366	<0.113	4.81
		12/23/10	5 - 6	4.29	386	<0.113	2.85	2.85	2,190	1.44	<0.0174	0.263	<0.113	6.88
		03/08/11	5 - 6	3.80	602	BRL	3.10	2.00	2,060	1.70	0.00375	BRL	BRL	7.20
		06/21/11	5 - 6	3.98	134	<0.0248	3.24	1.75	2,610	<0.101	0.00577	<0.332	<0.0742	8.69
		08/29/11	5 - 6	5.00	349	<0.0243	2.48	3.62	2,130	<0.0992	0.00603	<0.327	<0.0729	7.38
		12/22/11	5 - 6	6.33	287	<0.0558	1.20	<0.0620	1,320	<0.196	0.00678	<0.212	<0.500	5.80
WQCC Level:														
Cell 18 SPLP	18	03/31/10	4 - 5	<0.002	0.0668	--	--	<0.002	0.208	--	--	--	--	--
Cell 19	19	05/22/07	2 - 3	2.29	61	0.135	9.69	--	--	4.82	<0.0162	1.03	<0.0912	--
		03/19/08	2 - 3	2.35	89.8	0.166	7.83	--	--	4.42	<0.0162	1.50	<0.0965	--
		08/25/08	2 - 3	1.72	40.9	<0.101	6.83	--	--	4.20	<0.0162	1.28	<0.101	--
		03/25/09	2 - 3	2.84	197	0.118	4.28	2.26	3,380	2.30	<0.0163	1.23	<0.102	7.97
		10/01/09	2 - 3	2.60	73.0	--	9.41	3.84	8,930	5.47	--	2.08	--	16.0
		12/21/09	2 - 3	4.52	876	<0.110	2.75	--	--	1.27	<0.0165	0.362	<0.110	--
		03/31/10	4 - 5	2.17	126	0.129	3.89	2.07	2,850	1.97	<0.0178	0.482	<0.105	7.44
		06/14/10	5 - 6	3.37	154	0.152	3.72	1.97	3,080	1.81	<0.0164	0.500	<0.111	7.04
		09/27/10	5 - 6	5.15	808	0.121	3.76	17.8	2,550	1.68	<0.0166	0.350	<0.106	18.7
		12/23/10	5 - 6	2.20	103	0.150	8.65	4.41	7,310	4.62	<0.0169	0.612	<0.103	19.4
		03/08/11	5 - 6	3.50	359	BRL	3.10	2.90	2,010	1.80	0.00717	BRL	BRL	7.60
		06/21/11	5 - 6	4.89	459	<0.0251	2.92	1.89	2,490	<0.102	0.00534	<0.337	<0.0753	7.96

Table 6

Summary of Metals Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Zinc
Background Level (3/25/09):														
Cell 19	19	08/29/11	5 - 6	4.72	230	<0.0233	3.21	1.73	2,480	<0.0950	<0.00208	<0.313	<0.0698	7.68
		12/22/11	5 - 6	5.71	293	<0.0558	1.37	3.68	1,530	<0.196	<0.00198	<0.212	<0.500	8.81
WQCC Level:														
Cell 19 SPLP	19	03/31/10	4 - 5	0.00252	0.0201	--	--	0.00279	0.546	--	--	--	--	--
Cell 20	20	05/22/07	2 - 3	2.98	96.1	0.202	7.16	--	--	4.65	<0.0169	1.140	<0.104	--
		03/19/08	2 - 3	3.30	247	0.099	2.45	--	--	1.35	<0.0158	0.459	<0.0989	--
		08/25/08	2 - 3	1.43	29.6	<0.0990	5.11	--	--	3.08	<0.0154	0.865	<0.0990	--
		03/25/09	2 - 3	4.29	204	<0.111	2.16	2.00	1,370	1.01	<0.0169	0.705	<0.111	4.84
		10/01/09	2 - 3	2.82	104	--	5.63	2.77	4,660	3.19	--	1.29	--	7.81
		12/21/09	2 - 3	3.69	263	<0.109	3.33	--	--	1.82	<0.0168	0.408	<0.109	--
		03/31/10	4 - 5	3.63	159	0.1	2.77	4.40	1,970	1.83	<0.0166	0.434	<0.104	6.86
		06/14/10	5 - 6	5.05	890	<0.109	2.28	2.60	1,780	1.05	0.0182	0.346	<0.109	4.26
		09/27/10	5 - 6	6.89	300	0.109	2.31	2.83	1,660	1.11	<0.0172	0.367	<0.106	5.23
		12/23/10	5 - 6	4.42	284	<0.101	3.17	2.60	1,950	1.25	<0.0149	0.251	<0.101	8.42
		03/08/11	5 - 6	3.00	159	BRL	3.10	2.80	2,300	2.00	0.0116	BRL	BRL	7.90
		06/21/11	5 - 6	5.29	254	<0.0249	2.31	2.36	1,680	<0.102	0.0140	<0.335	<0.0747	6.16
		08/29/11	5 - 6	6.66	549	<0.0234	2.38	2.42	1,750	<0.0955	0.0051	<0.314	<0.0702	5.66
		12/22/11	5 - 6	5.73	323	<0.0558	2.14	4.08	1,810	<0.196	0.0035	<0.212	<0.500	10.1
WQCC Level:														
Cell 20 SPLP	20	03/31/10	4 - 5	<0.002	0.154	--	--	<0.002	0.0666	--	--	--	--	--
Cell 21	21	05/22/07	2 - 3	3.6	230	0.151	4.29	--	--	2.18	<0.0177	0.626	<0.117	--
		03/19/08	2 - 3	4.53	736	0.125	2.15	--	--	1.21	<0.0158	0.460	<0.108	--
		08/26/08	2 - 3	2.67	73.1	0.141	9.52	--	--	6.55	<0.0149	2.41	<0.102	--
		03/25/09	2 - 3	2.61	74.4	0.147	8.83	4.03	8,130	4.76	<0.0154	2.45	<0.102	19.0

Table 6

Summary of Metals Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Zinc
Background Level (3/25/09):														
Cell 21	21	10/01/09	2 - 3	4.71	708	--	2.95	1.35	2,410	1.64	--	0.824	--	4.49
		12/21/09	2 - 3	3.46	840	0.169	3.39	--	--	1.85	<0.0158	0.609	<0.609	--
		03/31/10	4 - 5	3.58	202	<0.101	6.43	3.89	4,440	4.69	<0.0171	0.604	<0.101	14.4
		06/14/10	5 - 6	6.02	765	0.175	2.88	2.54	2,430	2.01	<0.0102	0.452	<0.0579	6.13
		09/27/10	5 - 6	3.34	356	0.110	4.76	2.87	3,670	2.67	<0.0173	0.489	<0.106	9.51
		12/23/10	5 - 6	4.10	248	0.144	4.72	1.86	3,650	2.34	<0.0172	0.366	<0.108	9.72
		03/08/11	5 - 6	3.60	366	BRL	3.00	2.20	1,870	2.10	0.00797	BRL	BRL	8.00
		06/21/11	5 - 6	5.23	535	<0.0242	4.26	4.47	3,240	<0.0987	<0.00216	<0.325	<0.0726	16.40
		08/29/11	5 - 6	5.33	340	<0.0229	4.08	12.50	3,260	<0.0932	0.00835	<0.307	<0.0685	18.80
		12/22/11	5 - 6	5.12	268	<0.0558	1.41	0.642	1,300	<0.196	<0.00198	<0.212	<0.500	7.30
WQCC Level:														
Cell 21 SPLP	21	03/31/10	4 - 5	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.05	0.05	10.0
		03/31/10	4 - 5	<0.002	0.122	--	--	0.00222	0.251	--	--	--	--	--
Cell 25	25	05/22/07	2 - 3	2.96	76.7	0.197	11.70	--	--	6.13	<0.0171	1.39	<0.103	--
		08/25/08	2 - 3	2.88	60.8	0.155	8.91	--	--	5.51	<0.0154	1.41	<0.105	--
		03/25/09	2 - 3	3.85	65.5	0.215	11.6	3.83	11,800	6.61	<0.0158	2.86	<0.110	25.8
		10/01/09	2 - 3	3.15	57.4	--	10.8	3.21	11,500	6.61	--	2.32	--	19.7
		12/21/09	2 - 3	3.90	114	--	13.3	--	--	7.05	<0.0171	1.19	<0.0964	--
		03/31/10	4 - 5	4.11	377	<0.104	3.87	3.22	2,760	1.75	<0.0166	0.475	<0.104	8.60
		06/14/10	5 - 6	3.47	477	0.187	11.60	3.36	11,200	5.33	<0.0170	0.787	<0.105	26.00
		09/27/10	5 - 6	3.65	221	0.115	3.41	6.45	2,520	1.58	<0.0173	0.302	<0.106	10.40
		12/23/10	5 - 6	3.63	649	0.131	3.92	1.98	3,570	1.98	<0.0162	0.269	<0.111	8.03
		03/08/11	5 - 6	2.60	98	BRL	4.10	2.20	3,050	2.60	0.00467	BRL	BRL	9.30
		06/21/11	5 - 6	3.56	89	<0.0247	6.97	2.44	5,960	<0.101	<0.00221	<0.332	<0.0741	16.90

Table 6

Summary of Metals Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Silver	Zinc
Background Level (3/25/09):														
Cell 25	25	08/29/11	5 - 6	4.62	533	<0.0237	3.61	1.97	2,760	<0.0965	0.00552	<0.318	<0.0709	9.01
		12/22/11	5 - 6	5.94	290	<0.0558	1.69	<0.0620	1,790	<0.196	<0.00198	<0.212	<0.500	6.59
WQCC Level:														
Cell 25 SPLP	25	03/31/10	4 - 5	<0.002	0.188	--	--	<0.002	0.267	--	--	--	--	--
Cell 26	26	05/22/07	2 - 3	2.96	121	0.197	9.20	--	--	4.79	<0.0177	1.23	<0.109	--
		08/26/08	2 - 3	2.58	85.1	0.115	6.73	--	--	4.77	<0.0149	1.64	<0.103	--
		09/25/08	2 - 3	4.25	128	0.271	14.60	--	--	9.17	<0.0172	2.20	0.109	--
		03/25/09	2 - 3	5.19	692	0.132	3.07	2.37	2,100	1.38	<0.0177	0.960	<0.110	5.85
		06/26/09	3 - 4	--	301	--	--	--	--	--	--	--	--	--
		10/01/09	2 - 3	4.56	88.3	--	15.5	5.87	16,900	9.12	--	3.34	--	32.2
		12/21/09	2 - 3	3.87	787	<108	2.14	--	--	0.959	<0.0165	0.259	<0.108	--
		03/31/10	4 - 5	3.64	362	<0.109	4.04	3.14	2,650	1.92	<0.0173	0.532	<0.109	8.99
		06/14/10	5 - 6	3.20	178	0.202	3.36	1.91	2,610	1.64	<0.0178	0.043	<0.114	6.46
		09/27/10	5 - 6	4.11	922	0.165	4.13	7.34	3,410	2.70	<0.0168	0.543	<0.109	12.6
		12/23/10	5 - 6	3.94	370	<0.112	3.74	2.05	2,970	1.79	<0.0177	0.346	<0.112	9.53
		03/08/11	5 - 6	2.20	189	BRL	2.20	1.30	1,470	1.10	0.00312	BRL	BRL	5.30
		06/21/11	5 - 6	5.06	343	<0.0236	3.38	2.09	2,690	<0.0963	<0.00211	<0.317	<0.0708	9.68
		08/29/11	5 - 6	4.86	552	<0.0250	5.72	1.33	5,430	<0.102	0.00451	<0.336	<0.0750	14.50
		12/22/11	5 - 6	4.92	194	<0.0558	2.94	3.00	2,720	<0.196	<0.00198	<0.212	<0.500	12.5
WQCC Level:														
Cell 26 SPLP	26	03/31/10	4 - 5	<0.002	0.121	--	--	<0.002	0.401	--	--	--	--	--

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX and Trace Analysis, Midland, TX

Results are reported in milligram per Kilograms (mg/Kg).

Metals analysis was performed by SW846 method 6020

Mercury analysis was performed by SW846 method

1. <

Table 7
Summary of Anion Analyses of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	Alkalinity	Chloride	Sulfate
Background Level (3/25/09):				--	8.89	--
WQCC Level:				--	250	600
Cell 17	17	05/22/07	2 - 3	--	304	202
		03/19/08	2 - 3	11,100	61.2	71.4
		08/26/08	2 - 3	5,780	<5.41	46.4
		12/08/08	2 - 3	--	<6.50	--
		03/25/09	2 - 3	--	134	--
		06/26/09	3 - 4	--	90.8	--
		12/21/09	2 - 3	--	443	--
		03/31/10	4 - 5	--	134	--
		06/14/10	5 - 6	225	7.55	52.5
		09/27/10	5 - 6	--	<5.72	--
		12/23/10	5 - 6	--	95.7	--
		03/08/11	5 - 6	--	6.59	--
		06/21/11	5 - 6	--	18.70	--
		08/29/11	5 - 6	--	20.00	--
		12/22/11	5 - 6	--	20.40	--
Cell 18	18	05/22/07	2 - 3	--	18.9	150
		03/19/08	2 - 3	700	6.37	217
		08/25/08	2 - 3	2,600	9.94	123
		12/08/08	2 - 3	--	<5.52	--
		03/25/09	2 - 3	--	353	--
		06/26/09	3 - 4	--	22.5	--
		12/21/09	2 - 3	--	<5.35	--
		03/31/10	4 - 5	--	22.4	--
		06/14/10	5 - 6	250	85.4	449
		09/27/10	5 - 6	--	<5.91	--
		12/23/10	5 - 6	--	9.30	--
		03/08/11	5 - 6	--	12.10	--
		06/21/11	5 - 6	--	109.00	--
		08/29/11	5 - 6	--	202.00	--
		12/22/11	5 - 6	--	62.30	--
Cell 19	19	05/22/07	2 - 3	--	<5.06	205
		03/19/08	2 - 3	210	<5.36	300
		08/25/08	2 - 3	123	<5.14	152
		12/08/08	2 - 3	--	10.8	--
		03/25/09	2 - 3	--	6.94	--

Table 7
Summary of Anion Analyses of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	Alkalinity	Chloride	Sulfate
Background Level (3/25/09):				--	8.89	--
WQCC Level:				--	250	600
Cell 19	19	12/21/09	2 - 3	--	11.0	--
		03/31/10	4 - 5	--	<5.56	--
		06/14/10	5 - 6	184	19.4	126
		09/27/10	5 - 6	--	6.6	--
		12/23/10	5 - 6	--	7.94	--
		03/08/11	5 - 6	--	11.0	--
		06/21/11	5 - 6	--	14.2	--
		08/29/11	5 - 6	--	37.5	--
		12/22/11	5 - 6	--	31.5	--
Cell 20	20	05/22/07	2 - 3	--	<5.57	39.8
		03/19/08	2 - 3	152	15.3	561
		08/25/08	2 - 3	126	7.02	199
		12/08/08	2 - 3	--	<5.23	--
		03/25/09	2 - 3	--	10.8	--
		12/21/09	2 - 3	--	9.55	--
		03/31/10	4 - 5	--	13.7	--
		06/14/10	5 - 6	227	28.9	236
		09/27/10	5 - 6	--	47.1	--
		12/23/10	5 - 6	--	32.3	--
		03/08/11	5 - 6	--	20.6	--
		06/21/11	5 - 6	--	28.9	--
		08/29/11	5 - 6	--	10.2	--
		12/22/11	5 - 6	--	77.9	--
Cell 21	21	05/22/07	2 - 3	--	7.17	286
		03/19/08	2 - 3	523	13.0	320
		08/26/08	2 - 3	204	<5.32	23.9
		12/08/08	2 - 3	--	17.7	--
		03/25/09	2 - 3	--	<5.44	--
		12/21/09	2 - 3	--	14.4	--
		03/31/10	4 - 5	--	17.5	--
		06/14/10	5 - 6	214	26.5	156
		09/27/10	5 - 6	--	83.3	--
		12/23/10	5 - 6	--	<5.61	--
		03/08/11	5 - 6	--	5.43	--
		06/21/11	5 - 6	--	24.80	--

Table 7
Summary of Anion Analyses of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Cell Number	Date	Depth	Alkalinity	Chloride	Sulfate
Background Level (3/25/09):				--	8.89	--
WQCC Level:				--	250	600
Cell 21	21	08/29/11	5 - 6	--	5.48	--
		12/22/11	5 - 6	--	30.80	--
Cell 25	25	05/22/07	2 - 3	--	6.05	45.6
		08/25/08	2 - 3	211	<5.20	52.3
		12/08/08	2 - 3	--	7.20	--
		03/25/09	2 - 3	--	<5.55	--
		12/21/09	2 - 3	--	<5.56	--
		03/31/10	4 - 5	--	5.65	--
		06/14/10	5 - 6	420	24.7	81.6
		09/27/10	5 - 6	--	<5.48	--
		12/23/10	5 - 6	--	<5.68	--
		03/08/11	5 - 6	--	50.7	--
		06/21/11	5 - 6	--	9.5	--
		08/29/11	5 - 6	--	5.9	--
		12/22/11	5 - 6	--	28.6	--
Cell 26	26	05/22/07	2 - 3	--	3.9	152
		08/26/08	2 - 3	1,430	<5.33	91
		09/25/08	2 - 3	106	<5.65	--
		12/08/08	2 - 3	--	<5.48	--
		03/25/09	2 - 3	--	<5.79	--
		06/26/09	3 - 4	--	<6.36	--
		12/21/09	2 - 3	--	<5.51	--
		03/31/10	4 - 5	--	8.03	--
		06/14/10	5 - 6	174	26.2	130
		09/27/10	5 - 6	--	<5.43	--
		12/23/10	5 - 6	--	<5.57	--
		03/08/11	5 - 6	--	5.64	--
		06/21/11	5 - 6	--	17.70	--
		08/29/11	5 - 6	--	5.22	--
		12/22/11	5 - 6	--	22.70	--

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX

Results are reported in milligram per Kilograms (mg/Kg).

Anion analysis was performed by SW846 method 9056

1. <: Less than method detection limit

Summary of Metals Analysis of Vadose Zone Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Arsenic	Barium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Zinc
WQCC Level:			0.1	1.0	0.01	--	0.05	1.0	1.0	0.05	--	0.2	0.002	--	0.05	0.05	--	10.0
Background	03/25/09	2 - 3'	3.79	271	0.201	--	9.20	4.01	8,510	4.96	--	81.5	<0.0145	--	2.77	<0.0957	--	19.8
BK-L-32	06/25/09	8"	2.58	109	--	--	7.81	4.41	7,370	6.10	--	--	<0.0108	--	1.78	--	--	18.9
BK-M-32	06/25/09	12"	2.74	84.1	--	--	9.29	5.55	8,560	6.69	--	--	<0.0150	--	1.87	--	--	21.7
BK-R-32	06/25/09	18"	2.94	95.1	--	--	9.99	5.48	9,220	6.32	--	--	<0.0189	--	2.01	--	--	22.2
BK-L-31	06/25/09	12"	3.01	116	--	--	8.89	4.73	8,190	5.92	--	--	<0.0166	--	1.71	--	--	20.3
BK-R-31	06/25/09	12"	2.57	97.9	--	--	9.64	5.07	8,860	6.11	--	--	<0.0201	--	1.86	--	--	22.6
BK-L-30	06/25/09	12"	2.33	82.2	--	--	8.52	4.71	8,440	5.95	--	--	<0.0108	--	1.71	--	--	19.8
BK-M-30	06/25/09	8"	3.12	78.3	--	--	10.3	4.94	9,620	6.46	--	--	<0.0180	--	1.90	--	--	22.6
BK-R-30	06/25/09	10"	3.21	77.1	--	--	11.3	4.73	10,800	7.22	--	--	<0.0178	--	1.98	--	--	24.7
BK-L-29	06/25/09	36"	2.70	107	--	--	8.49	2.91	7,510	5.13	--	--	<0.0160	--	1.23	--	--	17.1
BK-R-29	06/25/09	30"	3.31	68.3	--	--	11.3	3.48	10,700	6.88	--	--	<0.0164	--	1.63	--	--	23.9

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX

Results are reported in milligram per Kilograms (mg/Kg).

Metals analysis was performed by SW846 method 6020

Mercury analysis was performed by SW846 method 7471A

1. <: Less than method detection limit

Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Chloride	Descriptive Statistics	
WQCC Level:				250	
Background	03/25/09	2 - 3'	8.89	Mean	6.20
BK-L-32	06/25/09	8"	<6.39	Standard Error	0.31
BK-M-32	06/25/09	12"	<5.27	Median	6.29
BK-R-32	06/25/09	18"	<6.47	Mode	6.39
BK-L-31	06/25/09	12"	<5.40	Standard Deviation	1.02
BK-R-31	06/25/09	12"	<6.34	Sample Variance	1.03
BK-L-30	06/25/09	12"	<6.29	Kurtosis	5.26
BK-M-30	06/25/09	8"	<5.93	Skewness	1.99
BK-R-30	06/25/09	10"	<6.39	Range	3.68
BK-L-29	06/25/09	36"	<5.21	Minimum	5.21
BK-R-29	06/25/09	30"	<5.62	Maximum	8.89
				Sum	68.2
				Count	11
				Confidence Level (95.0%)	0.68
				Student-t's 95% minimum	5.52
				Student-t's 95% maximum	6.88
				Confidence Level (98.0%)	0.85
				Student-t's 98% minimum	5.35
				Student-t's 98% maximum	7.05

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX
Results are reported in milligram per Kilograms (mg/Kg).
Anion analysis was performed by SW846 method 9056

1. <

Table 8
Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Arsenic	Descriptive Statistics	
WQCC Level:			0.1		
Background	03/25/09	2 - 3'	3.79	Mean	2.94
BK-L-32	06/25/09	8"	2.58	Standard Error	0.12
BK-M-32	06/25/09	12"	2.74	Median	2.94
BK-R-32	06/25/09	18"	2.94	Mode	#N/A
BK-L-31	06/25/09	12"	3.01	Standard Deviation	0.41
BK-R-31	06/25/09	12"	2.57	Sample Variance	0.17
BK-L-30	06/25/09	12"	2.33	Kurtosis	0.44
BK-M-30	06/25/09	8"	3.12	Skewness	0.63
BK-R-30	06/25/09	10"	3.21	Range	1.46
BK-L-29	06/25/09	36"	2.70	Minimum	2.33
BK-R-29	06/25/09	30"	3.31	Maximum	3.79
				Sum	32.30
				Count	11
				Confidence Level (95.0%)	0.28
				<i>Student-t's 95% minimum</i>	2.66
				<i>Student-t's 95% maximum</i>	3.22
				Confidence Level (98.0%)	0.34
				<i>Student-t's 98% minimum</i>	2.60
				<i>Student-t's 98% maximum</i>	3.28

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX

Results are reported in milligram per Kilograms (mg/Kg).

Metals analysis was performed by SW846 method 6020

Mercury analysis was performed by SW846 method 7471A

1. <:

Table 8
Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Barium	<i>Descriptive Statistics</i>	
WQCC Level:			1.0		
Background	03/25/09	2 - 3'	271	Mean	107.8
BK-L-32	06/25/09	8"	109	Standard Error	16.9
BK-M-32	06/25/09	12"	84.1	Median	95.1
BK-R-32	06/25/09	18"	95.1	Mode	#N/A
BK-L-31	06/25/09	12"	116	Standard Deviation	56.2
BK-R-31	06/25/09	12"	97.9	Sample Variance	3155.3
BK-L-30	06/25/09	12"	82.2	Kurtosis	9.0
BK-M-30	06/25/09	8"	78.3	Skewness	2.9
BK-R-30	06/25/09	10"	77.1	Range	202.7
BK-L-29	06/25/09	36"	107	Minimum	68.3
BK-R-29	06/25/09	30"	68.3	Maximum	271
				Sum	1186
				Count	11
				Confidence Level (95.0%)	37.7
				<i>Student-t's 95% minimum</i>	70.1
				<i>Student-t's 95% maximum</i>	145.5
				Confidence Level (98.0%)	46.8
				<i>Student-t's 98% minimum</i>	61.0
				<i>Student-t's 98% maximum</i>	154.6

Notes: Analysis performed by DHL Analytical,
Results are reported in milligram per Kilogram:
Metals analysis was performed by SW846 method
Mercury analysis was performed by SW846 method
1. <:

Table 8
Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Chromium	<i>Descriptive Statistics</i>	
WQCC Level:			0.05		
Background	03/25/09	2 - 3'	9.20	Mean	9.52
BK-L-32	06/25/09	8"	7.81	Standard Error	0.34
BK-M-32	06/25/09	12"	9.29	Median	9.29
BK-R-32	06/25/09	18"	9.99	Mode	11.3
BK-L-31	06/25/09	12"	8.89	Standard Deviation	1.13
BK-R-31	06/25/09	12"	9.64	Sample Variance	1.27
BK-L-30	06/25/09	12"	8.52	Kurtosis	-0.62
BK-M-30	06/25/09	8"	10.3	Skewness	0.38
BK-R-30	06/25/09	10"	11.3	Range	3.49
BK-L-29	06/25/09	36"	8.49	Minimum	7.81
BK-R-29	06/25/09	30"	11.3	Maximum	11.3
				Sum	104.73
				Count	11
				Confidence Level (95.0%)	0.76
				<i>Student-t's 95% minimum</i>	8.76
				<i>Student-t's 95% maximum</i>	10.28
				Confidence Level (98.0%)	0.94
				<i>Student-t's 98% minimum</i>	8.58
				<i>Student-t's 98% maximum</i>	10.46

Notes: Analysis performed by DHL Analytical, i
Results are reported in milligram per Kilogram:
Metals analysis was performed by SW846 metl
Mercury analysis was performed by SW846 me
1. <:

Table 8
Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Copper	Descriptive Statistics	
WQCC Level:			1.0		
Background	03/25/09	2 - 3'	4.01	Mean	4.55
BK-L-32	06/25/09	8"	4.41	Standard Error	0.24
BK-M-32	06/25/09	12"	5.55	Median	4.73
BK-R-32	06/25/09	18"	5.48	Mode	4.73
BK-L-31	06/25/09	12"	4.73	Standard Deviation	0.81
BK-R-31	06/25/09	12"	5.07	Sample Variance	0.65
BK-L-30	06/25/09	12"	4.71	Kurtosis	0.33
BK-M-30	06/25/09	8"	4.94	Skewness	-0.86
BK-R-30	06/25/09	10"	4.73	Range	2.64
BK-L-29	06/25/09	36"	2.91	Minimum	2.91
BK-R-29	06/25/09	30"	3.48	Maximum	5.55
				Sum	50.02
				Count	11
				Confidence Level (95.0%)	0.54
				<i>Student-t's 95% minimum</i>	4.01
				<i>Student-t's 95% maximum</i>	5.09
				Confidence Level (98.0%)	0.67
				<i>Student-t's 98% minimum</i>	3.88
				<i>Student-t's 98% maximum</i>	5.22

Notes: Analysis performed by DHL Analytical, Inc.
Results are reported in milligram per Kilogram.
Metals analysis was performed by SW846 method.
Mercury analysis was performed by SW846 method.
1. <:

Table 8
Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Iron	<i>Descriptive Statistics</i>	
WQCC Level:			1.0		
Background	03/25/09	2 - 3'	8,510	Mean	8889
BK-L-32	06/25/09	8"	7,370	Standard Error	340
BK-M-32	06/25/09	12"	8,560	Median	8560
BK-R-32	06/25/09	18"	9,220	Mode	#N/A
BK-L-31	06/25/09	12"	8,190	Standard Deviation	1128
BK-R-31	06/25/09	12"	8,860	Sample Variance	1272749
BK-L-30	06/25/09	12"	8,440	Kurtosis	-0.36
BK-M-30	06/25/09	8"	9,620	Skewness	0.57
BK-R-30	06/25/09	10"	10,800	Range	3430
BK-L-29	06/25/09	36"	7,510	Minimum	7370
BK-R-29	06/25/09	30"	10,700	Maximum	10800
				Sum	97780
				Count	11
				Confidence Level (95.0%)	758
				<i>Student-t's 95% minimum</i>	<i>8131</i>
				<i>Student-t's 95% maximum</i>	<i>9647</i>
				Confidence Level (98.0%)	940
				<i>Student-t's 98% minimum</i>	<i>7949</i>
				<i>Student-t's 98% maximum</i>	<i>9829</i>

Notes: Analysis performed by DHL Analytical,
Results are reported in milligram per Kilogram:
Metals analysis was performed by SW846 metl
Mercury analysis was performed by SW846 me
1. <:

Table 8
Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Lead	<i>Descriptive Statistics</i>	
WQCC Level:			0.05		
Background	03/25/09	2 - 3'	4.96	Mean	6.16
BK-L-32	06/25/09	8"	6.10	Standard Error	0.21
BK-M-32	06/25/09	12"	6.69	Median	6.11
BK-R-32	06/25/09	18"	6.32	Mode	#N/A
BK-L-31	06/25/09	12"	5.92	Standard Deviation	0.68
BK-R-31	06/25/09	12"	6.11	Sample Variance	0.46
BK-L-30	06/25/09	12"	5.95	Kurtosis	-0.08
BK-M-30	06/25/09	8"	6.46	Skewness	-0.41
BK-R-30	06/25/09	10"	7.22	Range	2.26
BK-L-29	06/25/09	36"	5.13	Minimum	4.96
BK-R-29	06/25/09	30"	6.88	Maximum	7.22
				Sum	67.74
				Count	11
				Confidence Level (95.0%)	0.46
				<i>Student-t's 95% minimum</i>	5.70
				<i>Student-t's 95% maximum</i>	6.62
				Confidence Level (98.0%)	0.57
				<i>Student-t's 98% minimum</i>	5.59
				<i>Student-t's 98% maximum</i>	6.73

Notes: Analysis performed by DHL Analytical, :
Results are reported in milligram per Kilogram:
Metals analysis was performed by SW846 met:
Mercury analysis was performed by SW846 me
1. <:

Table 8
Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Mercury		Descriptive Statistics	
WQCC Level:			0.002			
Background	03/25/09	2 - 3'	<0.0145	0.0145	Mean	0.0159
BK-L-32	06/25/09	8"	<0.0108	0.0108	Standard Error	0.0009
BK-M-32	06/25/09	12"	<0.0150	0.0150	Median	0.0164
BK-R-32	06/25/09	18"	<0.0189	0.0189	Mode	0.0108
BK-L-31	06/25/09	12"	<0.0166	0.0166	Standard Deviation	0.0030
BK-R-31	06/25/09	12"	<0.0201	0.0201	Sample Variance	9.02E-06
BK-L-30	06/25/09	12"	<0.0108	0.0108	Kurtosis	-0.1501
BK-M-30	06/25/09	8"	<0.0180	0.0180	Skewness	-0.6817
BK-R-30	06/25/09	10"	<0.0178	0.0178	Range	0.0093
BK-L-29	06/25/09	36"	<0.0160	0.0160	Minimum	0.0108
BK-R-29	06/25/09	30"	<0.0164	0.0164	Maximum	0.0201
					Sum	0.1749
					Count	11
					Confidence Level (95.0%)	0.0020
					Student-t's 95% minimum	0.0139
					Student-t's 95% maximum	0.0179
					Confidence Level (98.0%)	0.0025
					Student-t's 98% minimum	0.0134
					Student-t's 98% maximum	0.0184

Notes: Analysis performed by DHL Analytical, Inc.
Results are reported in milligram per Kilogram.
Metals analysis was performed by SW846 method.
Mercury analysis was performed by SW846 method.
1. <:

Table 8
Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Selenium	<i>Descriptive Statistics</i>	
WQCC Level:			0.05		
Background	03/25/09	2 - 3'	2.77	Mean	1.86
BK-L-32	06/25/09	8"	1.78	Standard Error	0.11
BK-M-32	06/25/09	12"	1.87	Median	1.86
BK-R-32	06/25/09	18"	2.01	Mode	1.71
BK-L-31	06/25/09	12"	1.71	Standard Deviation	0.37
BK-R-31	06/25/09	12"	1.86	Sample Variance	0.14
BK-L-30	06/25/09	12"	1.71	Kurtosis	4.16
BK-M-30	06/25/09	8"	1.90	Skewness	1.19
BK-R-30	06/25/09	10"	1.98	Range	1.54
BK-L-29	06/25/09	36"	1.23	Minimum	1.23
BK-R-29	06/25/09	30"	1.63	Maximum	2.77
				Sum	20.45
				Count	11
				Confidence Level (95.0%)	0.25
				<i>Student-t's 95% minimum</i>	1.61
				<i>Student-t's 95% maximum</i>	2.11
				Confidence Level (98.0%)	0.31
				<i>Student-t's 98% minimum</i>	1.61
				<i>Student-t's 98% maximum</i>	2.17

Notes: Analysis performed by DHL Analytical,
Results are reported in milligram per Kilogram:
Metals analysis was performed by SW846 method
Mercury analysis was performed by SW846 method
1. <:

Table 8
Summary of Background Soil Samples
Chevron North America Exploration and Production Company, Landfarm (Permit NM-2-0012)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Zinc	<i>Descriptive Statistics</i>	
WQCC Level:			10.0		
Background	03/25/09	2 - 3'	19.8	Mean	21.2
BK-L-32	06/25/09	8"	18.9	Standard Error	0.68
BK-M-32	06/25/09	12"	21.7	Median	21.7
BK-R-32	06/25/09	18"	22.2	Mode	19.8
BK-L-31	06/25/09	12"	20.3	Standard Deviation	2.27
BK-R-31	06/25/09	12"	22.6	Sample Variance	5.15
BK-L-30	06/25/09	12"	19.8	Kurtosis	-0.48
BK-M-30	06/25/09	8"	22.6	Skewness	-0.25
BK-R-30	06/25/09	10"	24.7	Range	7.6
BK-L-29	06/25/09	36"	17.1	Minimum	17.1
BK-R-29	06/25/09	30"	23.9	Maximum	24.7
				Sum	233.6
				Count	11
				Confidence Level (95.0%)	1.52
				<i>Student-t's 95% minimum</i>	19.7
				<i>Student-t's 95% maximum</i>	22.7
				Confidence Level (98.0%)	1.89
				<i>Student-t's 98% minimum</i>	19.3
				<i>Student-t's 98% maximum</i>	23.1

Notes: Analysis performed by DHL Analytical,
Results are reported in milligram per Kilogram:
Metals analysis was performed by SW846 metl
Mercury analysis was performed by SW846 me
1. <:

Figures

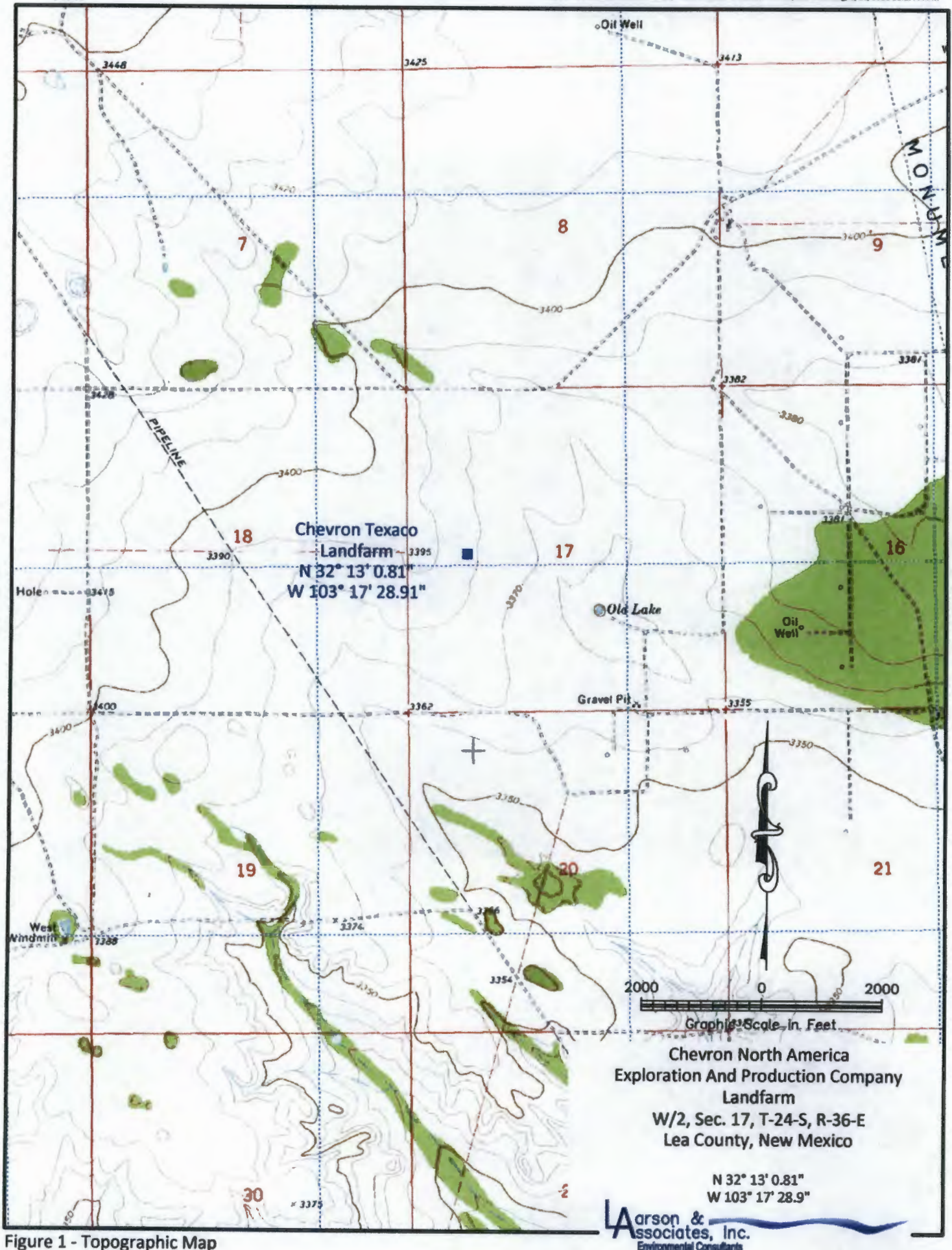


Figure 1 - Topographic Map

JWW

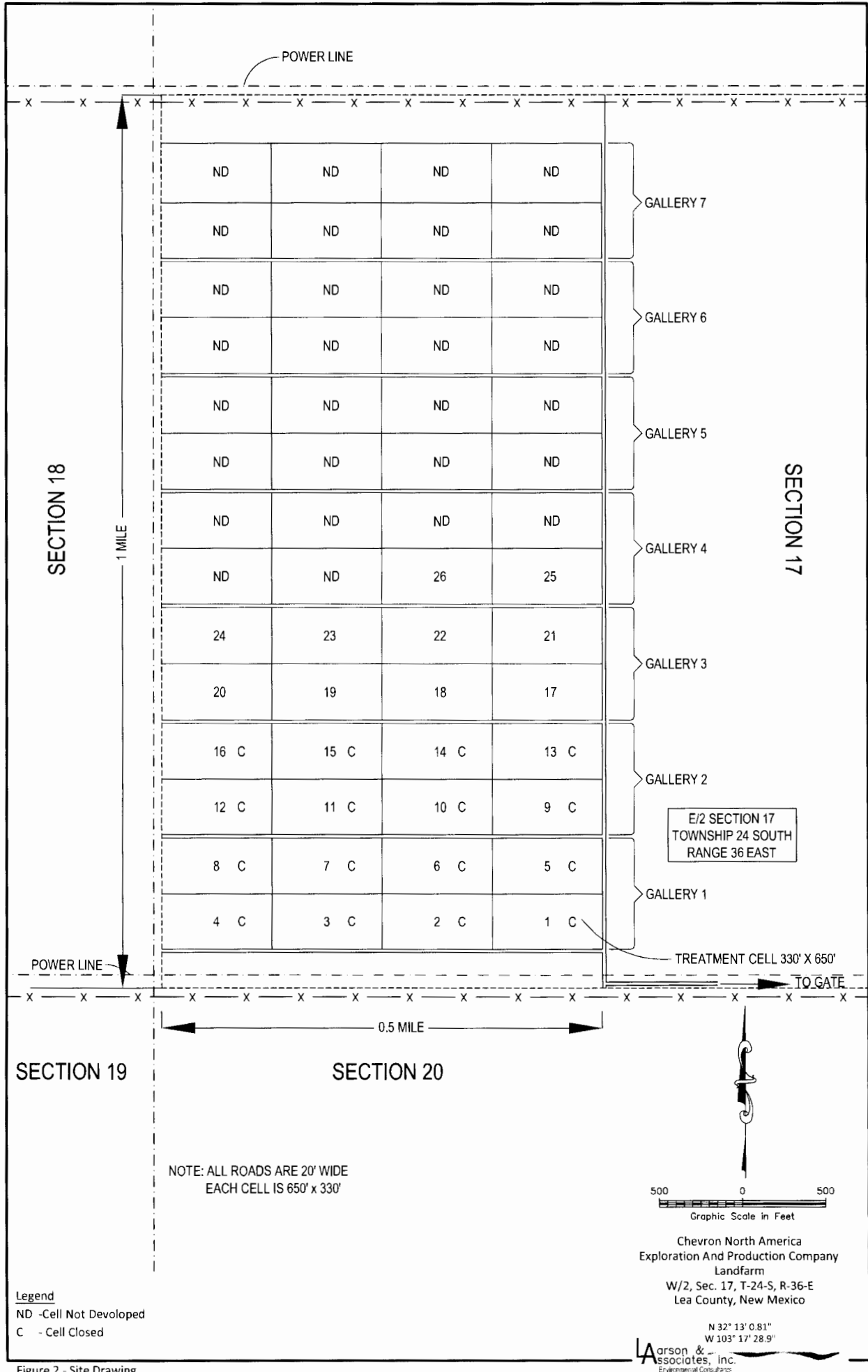


Figure 2 - Site Drawing



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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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Alexis Johnson
Larson and Associates, Inc.

Report Date: September 12, 2011

P. O. Box 50685
Midland, TX, 79710

Work Order: 11083035



Project Location: NM
Project Name: Chevron Landfarm
Project Number: 6-0137

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
275960	Cell 17 (0-1')	soil	2011-08-30	10:56	2011-08-30
275961	Cell 18 (0-1')	soil	2011-08-30	11:00	2011-08-30
275962	Cell 19 (0-1')	soil	2011-08-30	11:04	2011-08-30
275963	Cell 20 (0-1')	soil	2011-08-30	11:09	2011-08-30
275964	Cell 21 (0-1')	soil	2011-08-30	10:52	2011-08-30
275965	Cell 25 (0-1')	soil	2011-08-30	10:48	2011-08-30
275966	Cell 26 (0-1')	soil	2011-08-30	10:43	2011-08-30

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

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

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

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

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Case Narrative

Samples for project Chevron Landfarm were received by TraceAnalysis, Inc. on 2011-08-30 and assigned to work order 11083035. Samples for work order 11083035 were received intact at a temperature of -0.7 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	71750	2011-09-04 at 16:18	84487	2011-09-04 at 16:18
Chloride (IC)	E 300.0	71666	2011-08-31 at 09:20	84421	2011-08-31 at 18:33
Moisture Content	ASTM D 2216-05	71664	2011-08-31 at 13:19	84429	2011-09-01 at 12:59
Moisture Content	ASTM D 2216-05	71664	2011-08-31 at 13:19	84430	2011-09-01 at 13:00
TPH 418.1	E 418.1	71806	2011-09-06 at 15:00	84551	2011-09-07 at 13:52
TPH DRO - NEW	S 8015 D	71717	2011-09-01 at 14:14	84453	2011-09-01 at 14:14
TPH GRO	S 8015 D	71750	2011-09-04 at 16:18	84488	2011-09-04 at 16:44

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 11083035 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

Note: All sample results are reported on a dry weight basis.

Sample: 275960 - Cell 17 (0-1')

Laboratory: Midland

Analysis: BTEX

QC Batch: 84487

Prep Batch: 71750

Analytical Method: S 8021B

Date Analyzed: 2011-09-04

Sample Preparation: 2011-09-04

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.0119	<0.0202	<0.0119	mg/Kg	1	0.0119	0.02	0.0118
Toluene	u	1	<0.00605	<0.0202	<0.00605	mg/Kg	1	0.00605	0.02	0.006
Ethylbenzene	u	1	<0.00856	<0.0202	<0.00856	mg/Kg	1	0.00856	0.02	0.0085
Xylene	u	1	<0.00618	<0.0202	<0.00618	mg/Kg	1	0.00618	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.21	mg/Kg	1	2.00	110	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.15	mg/Kg	1	2.00	108	70.6 - 179

Sample: 275960 - Cell 17 (0-1')

Laboratory: Midland

Analysis: Chloride (IC)

QC Batch: 84421

Prep Batch: 71666

Analytical Method: E 300.0

Date Analyzed: 2011-08-31

Sample Preparation: 2011-08-31

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride			73.8	73.8	<0.232	mg/Kg	5	0.232	10	0.046

Sample: 275960 - Cell 17 (0-1')

Laboratory: Midland

Analysis: Moisture Content

QC Batch: 84429

Prep Batch: 71664

Analytical Method: ASTM D 2216-05

Date Analyzed: 2011-09-01

Sample Preparation: 2011-08-31

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		1	0.770	%	1	0

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Sample: 275960 - Cell 17 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 84551
Prep Batch: 71806

Analytical Method: E 418.1
Date Analyzed: 2011-09-07
Sample Preparation: 2011-09-06

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			180	180	<4.83	mg/Kg	1	4.83	10	4.79

Sample: 275960 - Cell 17 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 84453
Prep Batch: 71717

Analytical Method: S 8015 D
Date Analyzed: 2011-09-01
Sample Preparation: 2011-09-01

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	J	1	30.5	<50.4	<14.6	mg/Kg	1	14.6	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			84.4	mg/Kg	1	100	84	67.5 - 147.1

Sample: 275960 - Cell 17 (0-1')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 84488
Prep Batch: 71750

Analytical Method: S 8015 D
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	1	<0.759	<2.02	<0.759	mg/Kg	1	0.759	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1	2.00	107	30 - 134.6
4-Bromofluorobenzene (4-BFB)	J		1.97	mg/Kg	1	2.00	98	22.4 - 149

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Sample: 275961 - Cell 18 (0-1')

Laboratory: Midland

Analysis: BTEX

QC Batch: 84487

Prep Batch: 71750

Analytical Method: S 8021B

Date Analyzed: 2011-09-04

Sample Preparation: 2011-09-04

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.0119	<0.0201	<0.0119	mg/Kg	1	0.0119	0.02	0.0118
Toluene	u	1	<0.00604	<0.0201	<0.00604	mg/Kg	1	0.00604	0.02	0.006
Ethylbenzene	u	1	<0.00856	<0.0201	<0.00856	mg/Kg	1	0.00856	0.02	0.0085
Xylene	u	1	<0.00617	<0.0201	<0.00617	mg/Kg	1	0.00617	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.09	mg/Kg	1	2.00	104	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			1.95	mg/Kg	1	2.00	98	70.6 - 179

Sample: 275961 - Cell 18 (0-1')

Laboratory: Midland

Analysis: Chloride (IC)

QC Batch: 84421

Prep Batch: 71666

Analytical Method: E 300.0

Date Analyzed: 2011-08-31

Sample Preparation: 2011-08-31

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		8.35	<50.5	<0.232	mg/Kg	5	0.232	10	0.046

Sample: 275961 - Cell 18 (0-1')

Laboratory: Midland

Analysis: Moisture Content

QC Batch: 84429

Prep Batch: 71664

Analytical Method: ASTM D 2216-05

Date Analyzed: 2011-09-01

Sample Preparation: 2011-08-31

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		1	0.694	%	1	0

Sample: 275961 - Cell 18 (0-1')

Laboratory: Lubbock

Analysis: TPH 418.1

Analytical Method: E 418.1

Prep Method: N/A

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QC Batch: 84551
Prep Batch: 71806

Date Analyzed: 2011-09-07
Sample Preparation: 2011-09-06

Analyzed By: DS
Prepared By: DS

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			413	413	<4.82	mg/Kg	1	4.82	10	4.79

Sample: 275961 - Cell 18 (0-1')

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 84453

Prep Batch: 71717

Analytical Method: S 8015 D

Date Analyzed: 2011-09-01

Sample Preparation: 2011-09-01

Prep Method: N/A

Analyzed By: kg

Prepared By: kg

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO		1	79.2	79.2	<14.6	mg/Kg	1	14.6	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			119	mg/Kg	1	100	119	67.5 - 147.1

Sample: 275961 - Cell 18 (0-1')

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 84488

Prep Batch: 71750

Analytical Method: S 8015 D

Date Analyzed: 2011-09-04

Sample Preparation: 2011-09-04

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	1	<0.758	<2.01	<0.758	mg/Kg	1	0.758	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99	30 - 134.6
4-Bromofluorobenzene (4-BFB)			1.80	mg/Kg	1	2.00	90	22.4 - 149

Sample: 275962 - Cell 19 (0-1')

Laboratory: Midland

Analysis: BTEX

Analytical Method: S 8021B

Prep Method: S 5035

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QC Batch: 84487
Prep Batch: 71750

Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.0119	<0.0202	<0.0119	mg/Kg	1	0.0119	0.02	0.0118
Toluene	u	1	<0.00604	<0.0202	<0.00604	mg/Kg	1	0.00604	0.02	0.006
Ethylbenzene	u	1	<0.00856	<0.0202	<0.00856	mg/Kg	1	0.00856	0.02	0.0085
Xylene	u	1	<0.00618	<0.0202	<0.00618	mg/Kg	1	0.00618	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.80	mg/Kg	1	2.00	90	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			1.73	mg/Kg	1	2.00	86	70.6 - 179

Sample: 275962 - Cell 19 (0-1')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 84421
Prep Batch: 71666

Analytical Method: E 300.0
Date Analyzed: 2011-08-31
Sample Preparation: 2011-08-31

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		121	<505	<2.32	mg/Kg	50	2.32	10	0.046

Sample: 275962 - Cell 19 (0-1')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 84429
Prep Batch: 71664

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-09-01
Sample Preparation: 2011-08-31

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

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		1	0.756	%	1	0

Sample: 275962 - Cell 19 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 84551
Prep Batch: 71806

Analytical Method: E 418.1
Date Analyzed: 2011-09-07
Sample Preparation: 2011-09-06

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

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			159	159	<4.83	mg/Kg	1	4.83	10	4.79

Sample: 275962 - Cell 19 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 84453
Prep Batch: 71717

Analytical Method: S 8015 D
Date Analyzed: 2011-09-01
Sample Preparation: 2011-09-01

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1	<14.6	<50.4	<14.6	mg/Kg	1	14.6	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			75.3	mg/Kg	1	100	75	67.5 - 147.1

Sample: 275962 - Cell 19 (0-1')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 84488
Prep Batch: 71750

Analytical Method: S 8015 D
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	1	<0.759	<2.02	<0.759	mg/Kg	1	0.759	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.74	mg/Kg	1	2.00	87	30 - 134.6
4-Bromofluorobenzene (4-BFB)			1.60	mg/Kg	1	2.00	80	22.4 - 149

Sample: 275963 - Cell 20 (0-1')

Laboratory: Midland
Analysis: BTEX
QC Batch: 84487
Prep Batch: 71750

Analytical Method: S 8021B
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	1	<0.0119	<0.0202	<0.0119	mg/Kg	1	0.0119	0.02	0.0118
Toluene	U	1	<0.00604	<0.0202	<0.00604	mg/Kg	1	0.00604	0.02	0.006
Ethylbenzene	U	1	<0.00856	<0.0202	<0.00856	mg/Kg	1	0.00856	0.02	0.0085
Xylene	U	1	<0.00618	<0.0202	<0.00618	mg/Kg	1	0.00618	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.09	mg/Kg	1	2.00	104	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			1.96	mg/Kg	1	2.00	98	70.6 - 179

Sample: 275963 - Cell 20 (0-1')

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 84421 Date Analyzed: 2011-08-31 Analyzed By: AR
 Prep Batch: 71666 Sample Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		30.6	<101	<0.464	mg/Kg	10	0.464	10	0.046

Sample: 275963 - Cell 20 (0-1')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 84429 Date Analyzed: 2011-09-01 Analyzed By: AR
 Prep Batch: 71664 Sample Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		1	0.756	%	1	0

Sample: 275963 - Cell 20 (0-1')

Laboratory: Lubbock
 Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
 QC Batch: 84551 Date Analyzed: 2011-09-07 Analyzed By: DS
 Prep Batch: 71806 Sample Preparation: 2011-09-06 Prepared By: DS

continued ...

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sample 275963 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			127	127	<4.83	mg/Kg	1	4.83	10	4.79

Sample: 275963 - Cell 20 (0-1')

Laboratory: Midland
 Analysis: TPH DRO - NEW
 QC Batch: 84453
 Prep Batch: 71717
 Analytical Method: S 8015 D
 Date Analyzed: 2011-09-01
 Sample Preparation: 2011-09-01
 Prep Method: N/A
 Analyzed By: kg
 Prepared By: kg

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1	<14.6	<50.4	<14.6	mg/Kg	1	14.6	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			78.4	mg/Kg	1	100	78	67.5 - 147.1

Sample: 275963 - Cell 20 (0-1')

Laboratory: Midland
 Analysis: TPH GRO
 QC Batch: 84488
 Prep Batch: 71750
 Analytical Method: S 8015 D
 Date Analyzed: 2011-09-04
 Sample Preparation: 2011-09-04
 Prep Method: S 5035
 Analyzed By: AG
 Prepared By: AG

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	1	<0.759	<2.02	<0.759	mg/Kg	1	0.759	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		2.00	mg/Kg	1	2.00	100	30 - 134.6
4-Bromofluorobenzene (4-BFB)	J		1.80	mg/Kg	1	2.00	90	22.4 - 149

Sample: 275964 - Cell 21 (0-1')

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Laboratory: Midland
Analysis: BTEX
QC Batch: 84487
Prep Batch: 71750

Analytical Method: S 8021B
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.0120	<0.0202	<0.0120	mg/Kg	1	0.0120	0.02	0.0118
Toluene	u	1	<0.00608	<0.0202	<0.00608	mg/Kg	1	0.00608	0.02	0.006
Ethylbenzene	u	1	<0.00861	<0.0202	<0.00861	mg/Kg	1	0.00861	0.02	0.0085
Xylene	u	1	<0.00621	<0.0202	<0.00621	mg/Kg	1	0.00621	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.25	mg/Kg	1	2.00	112	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.12	mg/Kg	1	2.00	106	70.6 - 179

Sample: 275964 - Cell 21 (0-1')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 84421
Prep Batch: 71666

Analytical Method: E 300.0
Date Analyzed: 2011-08-31
Sample Preparation: 2011-08-31

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		6.04	<50.5	<0.233	mg/Kg	5	0.233	10	0.046

Sample: 275964 - Cell 21 (0-1')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 84430
Prep Batch: 71664

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-09-01
Sample Preparation: 2011-08-31

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

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		1	1.28	%	1	0

Sample: 275964 - Cell 21 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 84551

Analytical Method: E 418.1
Date Analyzed: 2011-09-07

Prep Method: N/A
Analyzed By: DS

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Prep Batch: 71806

Sample Preparation: 2011-09-06

Prepared By: DS

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			400	400	<4.85	mg/Kg	1	4.85	10	4.79

Sample: 275964 - Cell 21 (0-1')

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 84453

Prep Batch: 71717

Analytical Method: S 8015 D

Date Analyzed: 2011-09-01

Sample Preparation: 2011-09-01

Prep Method: N/A

Analyzed By: kg

Prepared By: kg

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO		1	118	118	<14.7	mg/Kg	1	14.7	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			110	mg/Kg	1	100	110	67.5 - 147.1

Sample: 275964 - Cell 21 (0-1')

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 84488

Prep Batch: 71750

Analytical Method: S 8015 D

Date Analyzed: 2011-09-04

Sample Preparation: 2011-09-04

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	1	<0.763	<2.02	<0.763	mg/Kg	1	0.763	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.17	mg/Kg	1	2.00	108	30 - 134.6
4-Bromofluorobenzene (4-BFB)		J	1.93	mg/Kg	1	2.00	96	22.4 - 149

Sample: 275965 - Cell 25 (0-1')

Laboratory: Midland

Analysis: BTEX

QC Batch: 84487

Analytical Method: S 8021B

Date Analyzed: 2011-09-04

Prep Method: S 5035

Analyzed By: AG

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Prep Batch: 71750

Sample Preparation: 2011-09-04

Prepared By: AG

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.0119	<0.0201	<0.0119	mg/Kg	1	0.0119	0.02	0.0118
Toluene	u	1	<0.00604	<0.0201	<0.00604	mg/Kg	1	0.00604	0.02	0.006
Ethylbenzene	u	1	<0.00855	<0.0201	<0.00855	mg/Kg	1	0.00855	0.02	0.0085
Xylene	u	1	<0.00617	<0.0201	<0.00617	mg/Kg	1	0.00617	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr		1.62	mg/Kg	1	2.00	81	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			1.52	mg/Kg	1	2.00	76	70.6 - 179

Sample: 275965 - Cell 25 (0-1')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 84421
Prep Batch: 71666

Analytical Method: E 300.0
Date Analyzed: 2011-08-31
Sample Preparation: 2011-08-31

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		5.42	<50.0	<0.231	mg/Kg	5	0.231	10	0.046

Sample: 275965 - Cell 25 (0-1')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 84430
Prep Batch: 71664

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-09-01
Sample Preparation: 2011-08-31

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

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		1	0.595	%	1	0

Sample: 275965 - Cell 25 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 84551
Prep Batch: 71806

Analytical Method: E 418.1
Date Analyzed: 2011-09-07
Sample Preparation: 2011-09-06

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

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			149	149	<4.82	mg/Kg	1	4.82	10	4.79

Sample: 275965 - Cell 25 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 84453
Prep Batch: 71717

Analytical Method: S 8015 D
Date Analyzed: 2011-09-01
Sample Preparation: 2011-09-01

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1	<14.6	<50.3	<14.6	mg/Kg	1	14.6	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			87.4	mg/Kg	1	100	87	67.5 - 147.1

Sample: 275965 - Cell 25 (0-1')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 84488
Prep Batch: 71750

Analytical Method: S 8015 D
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	1	<0.758	<2.01	<0.758	mg/Kg	1	0.758	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.57	mg/Kg	1	2.00	78	30 - 134.6
4-Bromofluorobenzene (4-BFB)			1.40	mg/Kg	1	2.00	70	22.4 - 149

Sample: 275966 - Cell 26 (0-1')

Laboratory: Midland
Analysis: BTEX
QC Batch: 84487
Prep Batch: 71750

Analytical Method: S 8021B
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	1	<0.0119	<0.0202	<0.0119	mg/Kg	1	0.0119	0.02	0.0118
Toluene	U	1	<0.00605	<0.0202	<0.00605	mg/Kg	1	0.00605	0.02	0.006
Ethylbenzene	U	1	<0.00857	<0.0202	<0.00857	mg/Kg	1	0.00857	0.02	0.0085
Xylene	U	1	<0.00618	<0.0202	<0.00618	mg/Kg	1	0.00618	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.26	mg/Kg	1	2.00	113	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.17	mg/Kg	1	2.00	108	70.6 - 179

Sample: 275966 - Cell 26 (0-1')

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 84421 Date Analyzed: 2011-08-31 Analyzed By: AR
 Prep Batch: 71666 Sample Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		4.95	<50.5	<0.232	mg/Kg	5	0.232	10	0.046

Sample: 275966 - Cell 26 (0-1')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 84430 Date Analyzed: 2011-09-01 Analyzed By: AR
 Prep Batch: 71664 Sample Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		1	0.841	%	1	0

Sample: 275966 - Cell 26 (0-1')

Laboratory: Lubbock
 Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
 QC Batch: 84551 Date Analyzed: 2011-09-07 Analyzed By: DS
 Prep Batch: 71806 Sample Preparation: 2011-09-06 Prepared By: DS

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sample 275966 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			194	194	<4.83	mg/Kg	1	4.83	10	4.79

Sample: 275966 - Cell 26 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 84453
Prep Batch: 71717

Analytical Method: S 8015 D
Date Analyzed: 2011-09-01
Sample Preparation: 2011-09-01

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	J	1	19.3	<50.4	<14.6	mg/Kg	1	14.6	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			86.3	mg/Kg	1	100	86	67.5 - 147.1

Sample: 275966 - Cell 26 (0-1')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 84488
Prep Batch: 71750

Analytical Method: S 8015 D
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	1	<0.759	<2.02	<0.759	mg/Kg	1	0.759	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.17	mg/Kg	1	2.00	108	30 - 134.6
4-Bromofluorobenzene (4-BFB)	J		1.98	mg/Kg	1	2.00	99	22.4 - 149

Method Blanks

Method Blank (1)

QC Batch: 84421 Date Analyzed: 2011-08-31 Analyzed By: AR
Prep Batch: 71666 QC Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	Result	Units	Reporting Limits
Chloride			<0.0460	mg/Kg	0.046

Method Blank (1)

QC Batch: 84453 Date Analyzed: 2011-09-01 Analyzed By: kg
Prep Batch: 71717 QC Preparation: 2011-09-01 Prepared By: kg

Parameter	F	C	Result	Units	Reporting Limits
DRO		1	<14.5	mg/Kg	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			84.7	mg/Kg	1	100	85	52.7 - 133.8

Method Blank (1)

QC Batch: 84487 Date Analyzed: 2011-09-04 Analyzed By: AG
Prep Batch: 71750 QC Preparation: 2011-09-04 Prepared By: AG

Parameter	F	C	Result	Units	Reporting Limits
Benzene		1	<0.0118	mg/Kg	0.0118
Toluene		1	<0.00600	mg/Kg	0.006
Ethylbenzene		1	<0.00850	mg/Kg	0.0085
Xylene		1	<0.00613	mg/Kg	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.16	mg/Kg	1	2.00	108	65.9 - 111.8
4-Bromofluorobenzene (4-BFB)			2.01	mg/Kg	1	2.00	100	48.4 - 123.1

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Method Blank (1)

QC Batch: 84488
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Parameter	F	C	Result	Units	Reporting Limits
GRO		1	<0.753	mg/Kg	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.09	mg/Kg	1	2.00	104	67.6 - 150
4-Bromofluorobenzene (4-BFB)			1.89	mg/Kg	1	2.00	94	52.4 - 130

Method Blank (1)

QC Batch: 84551
Prep Batch: 71806

Date Analyzed: 2011-09-07
QC Preparation: 2011-09-06

Analyzed By: DS
Prepared By: DS

Parameter	F	C	Result	Units	Reporting Limits
TRPHC			<4.79	mg/Kg	4.79

Duplicate (1) Duplicated Sample: 275963

QC Batch: 84429
Prep Batch: 71664

Date Analyzed: 2011-09-01
QC Preparation: 2011-08-31

Analyzed By: AR
Prepared By: AR

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		1	0.828	0.756	%	1	9	20

Duplicate (1) Duplicated Sample: 275973

QC Batch: 84430
Prep Batch: 71664

Date Analyzed: 2011-09-01
QC Preparation: 2011-08-31

Analyzed By: AR
Prepared By: AR

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		1	5.81	6.22	%	1	7	20

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 84421
Prep Batch: 71666

Date Analyzed: 2011-08-31
QC Preparation: 2011-08-31

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			24.1	mg/Kg	1	25.0	<0.0460	96	82.7 - 117

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
Chloride			23.9	mg/Kg	1	25.0	<0.0460	96	82.7 - 117	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 84453
Prep Batch: 71717

Date Analyzed: 2011-09-01
QC Preparation: 2011-09-01

Analyzed By: kg
Prepared By: kg

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	209	mg/Kg	1	250	<14.5	84	64.5 - 146.9

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
DRO		1	221	mg/Kg	1	250	<14.5	88	64.5 - 146.9	6	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane			87.2	89.2	mg/Kg	1	100	87	89	65.3 - 135.8

Laboratory Control Spike (LCS-1)

QC Batch: 84487
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	2.01	mg/Kg	1	2.00	<0.0118	100	77.4 - 121.7
Toluene		1	2.04	mg/Kg	1	2.00	<0.00600	102	88.6 - 121.6
Ethylbenzene		1	2.04	mg/Kg	1	2.00	<0.00850	102	74.3 - 117.9
Xylene		1	6.13	mg/Kg	1	6.00	<0.00613	102	73.4 - 118.8

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	1.91	mg/Kg	1	2.00	<0.0118	96	77.4 - 121.7	5	20
Toluene		1	1.94	mg/Kg	1	2.00	<0.00600	97	88.6 - 121.6	5	20
Ethylbenzene		1	1.91	mg/Kg	1	2.00	<0.00850	96	74.3 - 117.9	7	20
Xylene		1	5.77	mg/Kg	1	6.00	<0.00613	96	73.4 - 118.8	6	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.11	2.05	mg/Kg	1	2.00	106	102	65.5 - 116.7
4-Bromofluorobenzene (4-BFB)			2.09	2.02	mg/Kg	1	2.00	104	101	56.2 - 132.1

Laboratory Control Spike (LCS-1)

QC Batch: 84488
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	17.8	mg/Kg	1	20.0	<0.753	89	60.9 - 95.4

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
GRO		1	17.8	mg/Kg	1	20.0	<0.753	89	60.9 - 95.4	0	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.08	2.12	mg/Kg	1	2.00	104	106	61.9 - 142
4-Bromofluorobenzene (4-BFB)			1.97	1.99	mg/Kg	1	2.00	98	100	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 84551
Prep Batch: 71806

Date Analyzed: 2011-09-07
QC Preparation: 2011-09-06

Analyzed By: DS
Prepared By: DS

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			281	mg/Kg	1	250	<4.79	112	84.3 - 122

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
TRPHC			272	mg/Kg	1	250	<4.79	109	84.3 - 122	3	

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

Matrix Spike (MS-1) Spiked Sample: 275962

QC Batch: 84421
Prep Batch: 71666

Date Analyzed: 2011-08-31
QC Preparation: 2011-08-31

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			1350	mg/Kg	50	1380	120	89	60.6 - 124.5

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
Chloride			1340	mg/Kg	50	1380	120	89	60.6 - 124.5	1	20

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

Matrix Spike (MS-1) Spiked Sample: 275973

QC Batch: 84453
Prep Batch: 71717

Date Analyzed: 2011-09-01
QC Preparation: 2011-09-01

Analyzed By: kg
Prepared By: kg

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	204	mg/Kg	1	250	<14.5	82	38.8 - 153.3

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
DRO		1	183	mg/Kg	1	250	<14.5	73	38.8 - 153.3	11	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane			84.1	80.1	mg/Kg	1	100	84	80	54.6 - 149.8

Matrix Spike (MS-1) Spiked Sample: 275960

QC Batch: 84487
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	2.39	mg/Kg	1	2.00	<0.0118	120	69.4 - 123.6
Toluene		1	2.45	mg/Kg	1	2.00	<0.00600	122	75.4 - 134.3
Ethylbenzene		1	2.51	mg/Kg	1	2.00	<0.00850	126	58.8 - 133.7
Xylene		1	7.48	mg/Kg	1	6.00	<0.00613	125	57 - 134.2

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	2.00	mg/Kg	1	2.00	<0.0118	100	69.4 - 123.6	18	20
Toluene		1	2.08	mg/Kg	1	2.00	<0.00600	104	75.4 - 134.3	16	20
Ethylbenzene		1	2.16	mg/Kg	1	2.00	<0.00850	108	58.8 - 133.7	15	20
Xylene		1	6.47	mg/Kg	1	6.00	<0.00613	108	57 - 134.2	14	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.59	2.19	mg/Kg	1	2	130	110	79.4 - 141.1
4-Bromofluorobenzene (4-BFB)			2.58	2.15	mg/Kg	1	2	129	108	71 - 167

Matrix Spike (MS-1) Spiked Sample: 275969

QC Batch: 84488
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	16.3	mg/Kg	1	20.0	<0.753	82	61.8 - 114

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
GRO	Qr	1	21.4	mg/Kg	1	20.0	<0.753	107	61.8 - 114	27	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.25	1.83	mg/Kg	1	2	112	92	29.4 - 161.7
4-Bromofluorobenzene (4-BFB)			2.17	1.86	mg/Kg	1	2	108	93	37.3 - 162

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Matrix Spike (MS-1) Spiked Sample: 275964

QC Batch: 84551
Prep Batch: 71806

Date Analyzed: 2011-09-07
QC Preparation: 2011-09-06

Analyzed By: DS
Prepared By: DS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			658	mg/Kg	1	250	395	105	43 - 161

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
TRPHC			664	mg/Kg	1	250	395	108	43 - 161	1	

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

Calibration Standards

Standard (ICV-1)

QC Batch: 84421 Date Analyzed: 2011-08-31 Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	24.0	96	90 - 110	2011-08-31

Standard (CCV-1)

QC Batch: 84421 Date Analyzed: 2011-08-31 Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	23.9	96	90 - 110	2011-08-31

Standard (CCV-1)

QC Batch: 84453 Date Analyzed: 2011-09-01 Analyzed By: kg

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	219	88	80 - 120	2011-09-01

Standard (CCV-2)

QC Batch: 84453 Date Analyzed: 2011-09-01 Analyzed By: kg

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	200	80	80 - 120	2011-09-01

Standard (CCV-1)

QC Batch: 84487

Date Analyzed: 2011-09-04

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/Kg	0.100	0.0961	96	80 - 120	2011-09-04
Toluene		1	mg/Kg	0.100	0.0964	96	80 - 120	2011-09-04
Ethylbenzene		1	mg/Kg	0.100	0.0930	93	80 - 120	2011-09-04
Xylene		1	mg/Kg	0.300	0.280	93	80 - 120	2011-09-04

Standard (CCV-2)

QC Batch: 84487

Date Analyzed: 2011-09-04

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/Kg	0.100	0.109	109	80 - 120	2011-09-04
Toluene		1	mg/Kg	0.100	0.109	109	80 - 120	2011-09-04
Ethylbenzene		1	mg/Kg	0.100	0.108	108	80 - 120	2011-09-04
Xylene		1	mg/Kg	0.300	0.322	107	80 - 120	2011-09-04

Standard (CCV-3)

QC Batch: 84487

Date Analyzed: 2011-09-04

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/Kg	0.100	0.107	107	80 - 120	2011-09-04
Toluene		1	mg/Kg	0.100	0.105	105	80 - 120	2011-09-04
Ethylbenzene		1	mg/Kg	0.100	0.103	103	80 - 120	2011-09-04
Xylene		1	mg/Kg	0.300	0.308	103	80 - 120	2011-09-04

Standard (CCV-1)

QC Batch: 84488

Date Analyzed: 2011-09-04

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	1.13	113	80 - 120	2011-09-04

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Standard (CCV-2)

QC Batch: 84488

Date Analyzed: 2011-09-04

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	1.02	102	80 - 120	2011-09-04

Standard (CCV-3)

QC Batch: 84488

Date Analyzed: 2011-09-04

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	1.04	104	80 - 120	2011-09-04

Standard (CCV-1)

QC Batch: 84551

Date Analyzed: 2011-09-07

Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	109	109	80 - 120	2011-09-07

Standard (CCV-2)

QC Batch: 84551

Date Analyzed: 2011-09-07

Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	111	111	80 - 120	2011-09-07

Standard (CCV-3)

QC Batch: 84551

Date Analyzed: 2011-09-07

Analyzed By: DS

Report Date: September 12, 2011
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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	109	109	80 - 120	2011-09-07

Appendix

Laboratory Certifications

	Certifying C 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 than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

Appendix A

Laboratory Data Package Cover Page – Page 1 of 4

This data package is for Job No. 11083035 and laboratory batch no(s) all inclusive to that Job No and consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- ☐ R1 Field chain-of-custody documentation;
- ☐ R2 Sample identification cross-reference;
- ☐ R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- ☐ R4 Surrogate recovery data including:
 - a) calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- ☐ R5 Test reports/summary forms for blank samples;
- ☐ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- ☐ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- ☐ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- ☐ R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- ☐ R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in the laboratory review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: ☐ This laboratory meets an exception under 30 TAC §25.6 and was last inspection by ☐ TCEQ or ☐ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)

Michael Abel

Signature



Official Title (Print)

Production Manager

Date

09/08/2011

Laboratory Review Checklist: Reportable Data – Page 2 of 4

Laboratory Name: TraceAnalysis, Inc.		LRC Date: 9/08/11					
Project Name: Chevron Landfarm		Laboratory Job Number: 11083035					
Reviewer Name: Michael Abel		Prep Batch Number(s): All Inclusive for Order I.D.					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
		Were all departures from standard conditions described in an exception report?	✓				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	✓				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		Were calculations checked by a peer or supervisor?	✓				
		Were all analyte identifications checked by a peer or supervisor?	✓				
		Were sample detection limits reported for all analytes not detected?	✓				
		Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?	✓				
		If required for the project, are TICs reported?			✓		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	✓				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		✓			
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	✓				
		Were blanks analyzed at the appropriate frequency?	✓				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		Were blank concentrations < MQL?	✓				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	✓				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		Were LCSs analyzed at required frequency?	✓				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	✓				
		Was the LCSD RPD within QC limits?	✓				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	✓				
		Were MS/MSD analyzed at the appropriate frequency?	✓				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Were MS/MSD RPDs within laboratory QC limits?		✓			
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	✓				
		Were analytical duplicates analyzed at the appropriate frequency?	✓				
		Were RPDs relative standard deviations within the laboratory QC limits?	✓				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	✓				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	✓				

Laboratory Review Checklist: Reportable Data – Page 2 of 4 Continued

Laboratory Name: TraceAnalysis, Inc.			LRC Date: 9/08/11				
Project Name: Chevron Landfarm			Laboratory Job Number: 11083035				
Reviewer Name: Michael Abel			Prep Batch Number(s): All Inclusive for Order I.D.				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	✓				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	✓				
1 Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3 NA = Not applicable; 4 NR = Not reviewed; 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Supporting Data – Page 3 of 4

Laboratory Name: TraceAnalysis, Inc.

LRC Date: 9/08/11

Project Name: Chevron Landfarm

Laboratory Job Number: 11083035

Reviewer Name: Michael Abel

Prep Batch Number(s): All Inclusive for Order I.D.

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		Were response factors and /or relative response factors for each analyte within QC limits?	✓				
		Were percent RSDs or correlation coefficient criteria met?	✓				
		Was the number of standards recommended in the method used for all analytes?	✓				
		Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		Are ICAL data available for all instruments used?	✓				
		Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	✓				
		Were percent differences for each analyte within the method required QC limits?	✓				
		Was the ICAL curve verified for each analyte?	✓				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?			✓		
		Were ion abundance data within the method-required QC limits?			✓		
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?			✓		
S5	O	Raw data (NELAC section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?			✓		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	✓				
		Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	✓				
		Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3 NA = Not applicable;

4 NR = Not reviewed;

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

LRC Reviewer:
LRC Date: September 9, 2011

Project Name: Chevron Landfarm
Project Number: 6-0137

Work Order: 11083035

Sample: 275965

BTEX:

Trifluorotoluene (TFT) Qsr, Surrogate recovery outside of laboratory limits.

QC Batch: 84488

MSD

GRO

Qr, RPD outside of laboratory limits



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

Alexis Johnson
Larson and Associates, Inc.

Report Date: September 9, 2011

P. O. Box 50685
Midland, TX, 79710

Work Order: 11083036



Project Location: NM
Project Name: Chevron Landfarm
Project Number: 6-0137

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
275967	Cell-20 (5-6')	soil	2011-08-29	12:42	2011-08-30
275968	Cell-19 (5-6')	soil	2011-08-29	12:55	2011-08-30
275969	Cell-18 (5-6')	soil	2011-08-29	13:03	2011-08-30
275970	Cell-17 (5-6')	soil	2011-08-29	13:15	2011-08-30
275971	Cell-21 (5-6')	soil	2011-08-29	13:25	2011-08-30
275972	Cell-26 (5-6')	soil	2011-08-29	13:37	2011-08-30
275973	Cell-25 (5-6')	soil	2011-08-29	13:50	2011-08-30

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

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

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

Report Contents

Case Narrative	6
Analytical Report	7
Sample 275967 (Cell-20 (5-6'))	7
Sample 275968 (Cell-19 (5-6'))	10
Sample 275969 (Cell-18 (5-6'))	13
Sample 275970 (Cell-17 (5-6'))	17
Sample 275971 (Cell-21 (5-6'))	20
Sample 275972 (Cell-26 (5-6'))	23
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Appendix **61**

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Case Narrative

Samples for project Chevron Landfarm were received by TraceAnalysis, Inc. on 2011-08-30 and assigned to work order 11083036. Samples for work order 11083036 were received intact at a temperature of -0.7 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Ag, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
Ag, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59
As, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
As, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59
Ba, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
Ba, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59
BTEX	S 8021B	71750	2011-09-04 at 16:18	84487	2011-09-04 at 16:18
BTEX	S 8021B	71750	2011-09-04 at 16:18	84489	2011-09-05 at 10:30
Cd, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
Cd, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59
Chloride (IC)	E 300.0	71666	2011-08-31 at 09:20	84421	2011-08-31 at 18:33
Chloride (IC)	E 300.0	71667	2011-08-31 at 09:21	84422	2011-08-31 at 17:34
Cr, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
Cr, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59
Cu, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
Cu, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59
Fe, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
Fe, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59
Hg, Total	S 7471 B	71817	2011-09-08 at 10:33	84589	2011-09-08 at 14:45
Moisture Content	ASTM D 2216-05	71664	2011-08-31 at 13:19	84430	2011-09-01 at 13:00
Pb, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
Pb, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59
Se, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
Se, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59
TPH 418.1	E 418.1	71806	2011-09-06 at 15:00	84551	2011-09-07 at 13:52
TPH DRO - NEW	S 8015 D	71717	2011-09-01 at 14:14	84453	2011-09-01 at 14:14
TPH GRO	S 8015 D	71750	2011-09-04 at 16:18	84488	2011-09-04 at 16:44
TPH GRO	S 8015 D	71750	2011-09-04 at 16:18	84490	2011-09-06 at 10:56
Zn, Total	S 6010C	71724	2011-09-02 at 10:48	84507	2011-09-06 at 13:55
Zn, Total	S 6010C	71780	2011-09-07 at 09:53	84574	2011-09-08 at 11:59

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 11083036 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

Note: All sample results are reported on a dry weight basis.

Sample: 275967 - Cell-20 (5-6')

Laboratory: Midland
Analysis: BTEX
QC Batch: 84487
Prep Batch: 71750

Analytical Method: S 8021B
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0124	<0.0211	<0.0124	mg/Kg	1	0.0124	0.02	0.0118
Toluene	u	2	<0.00633	<0.0211	<0.00633	mg/Kg	1	0.00633	0.02	0.006
Ethylbenzene	u	2	<0.00897	<0.0211	<0.00897	mg/Kg	1	0.00897	0.02	0.0085
Xylene	u	2	<0.00647	<0.0211	<0.00647	mg/Kg	1	0.00647	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.23	mg/Kg	1	2.00	112	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.09	mg/Kg	1	2.00	104	70.6 - 179

Sample: 275967 - Cell-20 (5-6')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 84421
Prep Batch: 71666

Analytical Method: E 300.0
Date Analyzed: 2011-08-31
Sample Preparation: 2011-08-31

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		10.2	<53.0	<0.243	mg/Kg	5	0.243	10	0.046

Sample: 275967 - Cell-20 (5-6')

Laboratory: Lubbock
Analysis: Cu, Total
QC Batch: 84507
Prep Batch: 71724

Analytical Method: S 6010C
Date Analyzed: 2011-09-06
Sample Preparation: 2011-09-02

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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sample 275967 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	2.42	2.42	<0.0502	mg/Kg	1	0.0502	0.5	0.0476

Sample: 275967 - Cell-20 (5-6')

Laboratory: Lubbock
Analysis: Fe, Total
QC Batch: 84507
Prep Batch: 71724

Analytical Method: S 6010C
Date Analyzed: 2011-09-06
Sample Preparation: 2011-09-02

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	1750	1750	<0.0721	mg/Kg	1	0.0721	0.5	0.0683

Sample: 275967 - Cell-20 (5-6')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 84430
Prep Batch: 71664

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-09-01
Sample Preparation: 2011-08-31

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

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	5.22	%	1	0

Sample: 275967 - Cell-20 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 84507
Prep Batch: 71724

Analytical Method: S 6010C
Date Analyzed: 2011-09-06
Sample Preparation: 2011-09-02

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 84589
Prep Batch: 71817

Analytical Method: S 7471 B
Date Analyzed: 2011-09-08
Sample Preparation: 2011-09-08

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

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0702	<0.528	<0.0702	mg/Kg	1	0.0702	0.5	0.0665
Total Arsenic		1	6.66	6.66	<0.202	mg/Kg	1	0.202	2	0.191
Total Barium		1	549	549	<0.0172	mg/Kg	1	0.0172	1	0.0163
Total Cadmium	u	1	<0.0234	<0.528	<0.0234	mg/Kg	1	0.0234	0.5	0.0222
Total Chromium		1	2.38	2.38	<0.0503	mg/Kg	1	0.0503	0.5	0.0477
Total Mercury	j	1	0.00510	<0.0264	<0.00209	mg/Kg	1	0.00209	0.025	0.00198
Total Lead	u	1	<0.0955	<1.06	<0.0955	mg/Kg	1	0.0955	1	0.0905
Total Selenium	u	1	<0.314	<2.11	<0.314	mg/Kg	1	0.314	2	0.298

Sample: 275967 - Cell-20 (5-6')

Laboratory: Lubbock
 Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
 QC Batch: 84551 Date Analyzed: 2011-09-07 Analyzed By: DS
 Prep Batch: 71806 Sample Preparation: 2011-09-06 Prepared By: DS

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			86.4	86.4	<5.05	mg/Kg	1	5.05	10	4.79

Sample: 275967 - Cell-20 (5-6')

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 84453 Date Analyzed: 2011-09-01 Analyzed By: kg
 Prep Batch: 71717 Sample Preparation: 2011-09-01 Prepared By: kg

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	2	<15.3	<52.8	<15.3	mg/Kg	1	15.3	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			82.0	mg/Kg	1	100	82	67.5 - 147.1

Sample: 275967 - Cell-20 (5-6')

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 84488 Date Analyzed: 2011-09-04 Analyzed By: AG
 Prep Batch: 71750 Sample Preparation: 2011-09-04 Prepared By: AG

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
GRO	Qr,U	2	<0.794	<2.11	<0.794	mg/Kg	1	0.794	2	0.753	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.14	mg/Kg	1	2.00	107	30 - 134.6
4-Bromofluorobenzene (4-BFB)				J		1.90	mg/Kg	1	2.00	95	22.4 - 149

Sample: 275967 - Cell-20 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 84507
Prep Batch: 71724

Analytical Method: S 6010C
Date Analyzed: 2011-09-06
Sample Preparation: 2011-09-02

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	5.66	5.66	<0.109	mg/Kg	1	0.109	1	0.103

Sample: 275968 - Cell-19 (5-6')

Laboratory: Midland
Analysis: BTEX
QC Batch: 84487
Prep Batch: 71750

Analytical Method: S 8021B
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based	Based	Blank				(Unadjusted)	(Unadjusted)	
			Result	Result	Result						
Benzene	u	2	<0.0124	<0.0210	<0.0124	mg/Kg	1	0.0124	0.02	0.0118	
Toluene	u	2	<0.00630	<0.0210	<0.00630	mg/Kg	1	0.00630	0.02	0.006	
Ethylbenzene	u	2	<0.00892	<0.0210	<0.00892	mg/Kg	1	0.00892	0.02	0.0085	
Xylene	u	2	<0.00644	<0.0210	<0.00644	mg/Kg	1	0.00644	0.02	0.00613	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						1.96	mg/Kg	1	2.00	98	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)						1.82	mg/Kg	1	2.00	91	70.6 - 179

Sample: 275968 - Cell-19 (5-6')

Laboratory: Midland

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Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	84422	Date Analyzed:	2011-08-31	Analyzed By:	AR
Prep Batch:	71667	Sample Preparation:	2011-08-31	Prepared By:	AR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		37.5	<52.5	<0.241	mg/Kg	5	0.241	10	0.046

Sample: 275968 - Cell-19 (5-6')

Laboratory:	Lubbock									
Analysis:	Cu, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B					
QC Batch:	84507	Date Analyzed:	2011-09-06	Analyzed By:	RR					
Prep Batch:	71724	Sample Preparation:	2011-09-02	Prepared By:	KV					

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	1.73	1.73	<0.0500	mg/Kg	1	0.0500	0.5	0.0476

Sample: 275968 - Cell-19 (5-6')

Laboratory:	Lubbock									
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B					
QC Batch:	84507	Date Analyzed:	2011-09-06	Analyzed By:	RR					
Prep Batch:	71724	Sample Preparation:	2011-09-02	Prepared By:	KV					

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	2480	2480	<0.0717	mg/Kg	1	0.0717	0.5	0.0683

Sample: 275968 - Cell-19 (5-6')

Laboratory:	Midland									
Analysis:	Moisture Content	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A					
QC Batch:	84430	Date Analyzed:	2011-09-01	Analyzed By:	AR					
Prep Batch:	71664	Sample Preparation:	2011-08-31	Prepared By:	AR					

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	4.75	%	1	0

Sample: 275968 - Cell-19 (5-6')

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Laboratory:	Lubbock	Analytical Method:	S 6010C	Prep Method:	S 3050B
Analysis:	Total 8 Metals	Date Analyzed:	2011-09-06	Analyzed By:	RR
QC Batch:	84507	Sample Preparation:	2011-09-02	Prepared By:	KV
Prep Batch:	71724				
Laboratory:	Lubbock	Analytical Method:	S 7471 B	Prep Method:	N/A
Analysis:	Total 8 Metals	Date Analyzed:	2011-09-08	Analyzed By:	KV
QC Batch:	84589	Sample Preparation:	2011-09-08	Prepared By:	KV
Prep Batch:	71817				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0698	<0.525	<0.0698	mg/Kg	1	0.0698	0.5	0.0665
Total Arsenic		1	4.72	4.72	<0.200	mg/Kg	1	0.200	2	0.191
Total Barium		1	230	230	<0.0171	mg/Kg	1	0.0171	1	0.0163
Total Cadmium	u	1	<0.0233	<0.525	<0.0233	mg/Kg	1	0.0233	0.5	0.0222
Total Chromium		1	3.21	3.21	<0.0501	mg/Kg	1	0.0501	0.5	0.0477
Total Mercury	u	1	<0.00208	<0.0262	<0.00208	mg/Kg	1	0.00208	0.025	0.00198
Total Lead	u	1	<0.0950	<1.05	<0.0950	mg/Kg	1	0.0950	1	0.0905
Total Selenium	u	1	<0.313	<2.10	<0.313	mg/Kg	1	0.313	2	0.298

Sample: 275968 - Cell-19 (5-6')

Laboratory:	Lubbock	Analytical Method:	E 418.1	Prep Method:	N/A
Analysis:	TPH 418.1	Date Analyzed:	2011-09-07	Analyzed By:	DS
QC Batch:	84551	Sample Preparation:	2011-09-06	Prepared By:	DS
Prep Batch:	71806				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			63.2	63.2	<5.03	mg/Kg	1	5.03	10	4.79

Sample: 275968 - Cell-19 (5-6')

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2011-09-01	Analyzed By:	kg
QC Batch:	84453	Sample Preparation:	2011-09-01	Prepared By:	kg
Prep Batch:	71717				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	2	<15.2	<52.5	<15.2	mg/Kg	1	15.2	50	14.5

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Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			84.9	mg/Kg	1	100	85	67.5 - 147.1

Sample: 275968 - Cell-19 (5-6')

Laboratory: Midland
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 84488 Date Analyzed: 2011-09-04 Analyzed By: AG
 Prep Batch: 71750 Sample Preparation: 2011-09-04 Prepared By: AG

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	2	<0.790	<2.10	<0.790	mg/Kg	1	0.790	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.88	mg/Kg	1	2.00	94	30 - 134.6
4-Bromofluorobenzene (4-BFB)	J		1.66	mg/Kg	1	2.00	83	22.4 - 149

Sample: 275968 - Cell-19 (5-6')

Laboratory: Lubbock
 Analysis: Zn, Total Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 84507 Date Analyzed: 2011-09-06 Analyzed By: RR
 Prep Batch: 71724 Sample Preparation: 2011-09-02 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	7.68	7.68	<0.108	mg/Kg	1	0.108	1	0.103

Sample: 275969 - Cell-18 (5-6')

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 84487 Date Analyzed: 2011-09-04 Analyzed By: AG
 Prep Batch: 71750 Sample Preparation: 2011-09-04 Prepared By: AG

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	2	<0.0129	<0.0219	<0.0129	mg/Kg	1	0.0129	0.02	0.0118

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sample 275969 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Toluene	U	2	<0.00658	<0.0219	<0.00658	mg/Kg	1	0.00658	0.02	0.006
Ethylbenzene	U	2	<0.00932	<0.0219	<0.00932	mg/Kg	1	0.00932	0.02	0.0085
Xylene	U	2	<0.00672	<0.0219	<0.00672	mg/Kg	1	0.00672	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.25	mg/Kg	1	2.00	112	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	70.6 - 179

Sample: 275969 - Cell-18 (5-6')

Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 84422 Date Analyzed: 2011-08-31 Analyzed By: AR
Prep Batch: 71667 Sample Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride			202	202	<0.252	mg/Kg	5	0.252	10	0.046

Sample: 275969 - Cell-18 (5-6')

Laboratory: Lubbock
Analysis: Cu, Total Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 84507 Date Analyzed: 2011-09-06 Analyzed By: RR
Prep Batch: 71724 Sample Preparation: 2011-09-02 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	3.62	3.62	<0.0522	mg/Kg	1	0.0522	0.5	0.0476

Sample: 275969 - Cell-18 (5-6')

Laboratory: Lubbock
Analysis: Fe, Total Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 84507 Date Analyzed: 2011-09-06 Analyzed By: RR
Prep Batch: 71724 Sample Preparation: 2011-09-02 Prepared By: KV

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	2130	2130	<0.0749	mg/Kg	1	0.0749	0.5	0.0683

Sample: 275969 - Cell-18 (5-6')

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 84430 Date Analyzed: 2011-09-01 Analyzed By: AR
Prep Batch: 71664 Sample Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	8.81	%	1	0

Sample: 275969 - Cell-18 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 84507 Date Analyzed: 2011-09-06 Analyzed By: RR
Prep Batch: 71724 Sample Preparation: 2011-09-02 Prepared By: KV
Laboratory: Lubbock
Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
QC Batch: 84589 Date Analyzed: 2011-09-08 Analyzed By: KV
Prep Batch: 71817 Sample Preparation: 2011-09-08 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Silver	U	1	<0.0729	<0.548	<0.0729	mg/Kg	1	0.0729	0.5	0.0665
Total Arsenic		1	5.00	5.00	<0.209	mg/Kg	1	0.209	2	0.191
Total Barium		1	349	349	<0.0179	mg/Kg	1	0.0179	1	0.0163
Total Cadmium	U	1	<0.0243	<0.548	<0.0243	mg/Kg	1	0.0243	0.5	0.0222
Total Chromium		1	2.48	2.48	<0.0523	mg/Kg	1	0.0523	0.5	0.0477
Total Mercury	J	1	0.00603	<0.0274	<0.00217	mg/Kg	1	0.00217	0.025	0.00198
Total Lead	U	1	<0.0992	<1.10	<0.0992	mg/Kg	1	0.0992	1	0.0905
Total Selenium	U	1	<0.327	<2.19	<0.327	mg/Kg	1	0.327	2	0.298

Sample: 275969 - Cell-18 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 84551 Date Analyzed: 2011-09-07 Analyzed By: DS
Prep Batch: 71806 Sample Preparation: 2011-09-06 Prepared By: DS

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	u		<5.25	<11.0	<5.25	mg/Kg	1	5.25	10	4.79

Sample: 275969 - Cell-18 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 84453
Prep Batch: 71717

Analytical Method: S 8015 D
Date Analyzed: 2011-09-01
Sample Preparation: 2011-09-01

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	2	<15.9	<54.8	<15.9	mg/Kg	1	15.9	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			83.0	mg/Kg	1	100	83	67.5 - 147.1

Sample: 275969 - Cell-18 (5-6')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 84488
Prep Batch: 71750

Analytical Method: S 8015 D
Date Analyzed: 2011-09-04
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	Qr,U	2	<0.826	<2.19	<0.826	mg/Kg	1	0.826	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1	2.00	107	30 - 134.6
4-Bromofluorobenzene (4-BFB)		J	1.89	mg/Kg	1	2.00	94	22.4 - 149

Sample: 275969 - Cell-18 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 84507
Prep Batch: 71724

Analytical Method: S 6010C
Date Analyzed: 2011-09-06
Sample Preparation: 2011-09-02

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	7.38	7.38	<0.113	mg/Kg	1	0.113	1	0.103

Sample: 275970 - Cell-17 (5-6')

Laboratory: Midland
Analysis: BTEX
QC Batch: 84489
Prep Batch: 71750

Analytical Method: S 8021B
Date Analyzed: 2011-09-05
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	2	<0.0123	<0.0209	<0.0123	mg/Kg	1	0.0123	0.02	0.0118
Toluene	U	2	<0.00628	<0.0209	<0.00628	mg/Kg	1	0.00628	0.02	0.006
Ethylbenzene	U	2	<0.00889	<0.0209	<0.00889	mg/Kg	1	0.00889	0.02	0.0085
Xylene	U	2	<0.00641	<0.0209	<0.00641	mg/Kg	1	0.00641	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1	2.00	107	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.01	mg/Kg	1	2.00	100	70.6 - 179

Sample: 275970 - Cell-17 (5-6')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 84422
Prep Batch: 71667

Analytical Method: E 300.0
Date Analyzed: 2011-08-31
Sample Preparation: 2011-08-31

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		20.0	<52.5	<0.240	mg/Kg	5	0.240	10	0.046

Sample: 275970 - Cell-17 (5-6')

Laboratory: Lubbock
Analysis: Cu, Total
QC Batch: 84507
Prep Batch: 71724

Analytical Method: S 6010C
Date Analyzed: 2011-09-06
Sample Preparation: 2011-09-02

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	2.43	2.43	<0.0498	mg/Kg	1	0.0498	0.5	0.0476

Sample: 275970 - Cell-17 (5-6')

Laboratory: Lubbock
 Analysis: Fe, Total Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 84507 Date Analyzed: 2011-09-06 Analyzed By: RR
 Prep Batch: 71724 Sample Preparation: 2011-09-02 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	3300	3300	<0.0714	mg/Kg	1	0.0714	0.5	0.0683

Sample: 275970 - Cell-17 (5-6')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 84430 Date Analyzed: 2011-09-01 Analyzed By: AR
 Prep Batch: 71664 Sample Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	4.40	%	1	0

Sample: 275970 - Cell-17 (5-6')

Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 84507 Date Analyzed: 2011-09-06 Analyzed By: RR
 Prep Batch: 71724 Sample Preparation: 2011-09-02 Prepared By: KV
 Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 84589 Date Analyzed: 2011-09-08 Analyzed By: KV
 Prep Batch: 71817 Sample Preparation: 2011-09-08 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0696	<0.523	<0.0696	mg/Kg	1	0.0696	0.5	0.0665
Total Arsenic		1	4.58	4.58	<0.200	mg/Kg	1	0.200	2	0.191
Total Barium		1	169	169	<0.0170	mg/Kg	1	0.0170	1	0.0163
Total Cadmium	u	1	<0.0232	<0.523	<0.0232	mg/Kg	1	0.0232	0.5	0.0222

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Chromium		1	4.00	4.00	<0.0499	mg/Kg	1	0.0499	0.5	0.0477
Total Mercury	J	1	0.00685	<0.0262	<0.00207	mg/Kg	1	0.00207	0.025	0.00198
Total Lead	U	1	<0.0947	<1.05	<0.0947	mg/Kg	1	0.0947	1	0.0905
Total Selenium	U	1	<0.312	<2.09	<0.312	mg/Kg	1	0.312	2	0.298

Sample: 275970 - Cell-17 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 84551
Prep Batch: 71806

Analytical Method: E 418.1
Date Analyzed: 2011-09-07
Sample Preparation: 2011-09-06

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	J		8.72	<10.5	<5.01	mg/Kg	1	5.01	10	4.79

Sample: 275970 - Cell-17 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 84453
Prep Batch: 71717

Analytical Method: S 8015 D
Date Analyzed: 2011-09-01
Sample Preparation: 2011-09-01

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	2	<15.2	<52.3	<15.2	mg/Kg	1	15.2	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			88.1	mg/Kg	1	100	88	67.5 - 147.1

Sample: 275970 - Cell-17 (5-6')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 84490
Prep Batch: 71750

Analytical Method: S 8015 D
Date Analyzed: 2011-09-06
Sample Preparation: 2011-09-04

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

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
GRO	u	2	<0.788	<2.09	<0.788	mg/Kg	1	0.788	2	0.753	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.06	mg/Kg	1	2.00	103	30 - 134.6
4-Bromofluorobenzene (4-BFB)				j		1.85	mg/Kg	1	2.00	92	22.4 - 149

Sample: 275970 - Cell-17 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 84507
Prep Batch: 71724

Analytical Method: S 6010C
Date Analyzed: 2011-09-06
Sample Preparation: 2011-09-02

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	14.2	14.2	<0.108	mg/Kg	1	0.108	1	0.103

Sample: 275971 - Cell-21 (5-6')

Laboratory: Midland
Analysis: BTEX
QC Batch: 84489
Prep Batch: 71750

Analytical Method: S 8021B
Date Analyzed: 2011-09-05
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based	Based	Blank				(Unadjusted)	(Unadjusted)	
			Result	Result	Result						
Benzene	u	2	<0.0122	<0.0206	<0.0122	mg/Kg	1	0.0122	0.02	0.0118	
Toluene	u	2	<0.00618	<0.0206	<0.00618	mg/Kg	1	0.00618	0.02	0.006	
Ethylbenzene	u	2	<0.00876	<0.0206	<0.00876	mg/Kg	1	0.00876	0.02	0.0085	
Xylene	u	2	<0.00632	<0.0206	<0.00632	mg/Kg	1	0.00632	0.02	0.00613	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.31	mg/Kg	1	2.00	116	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)						2.15	mg/Kg	1	2.00	108	70.6 - 179

Sample: 275971 - Cell-21 (5-6')

Laboratory: Midland

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Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	84422	Date Analyzed:	2011-08-31	Analyzed By:	AR
Prep Batch:	71667	Sample Preparation:	2011-08-31	Prepared By:	AR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		5.48	<51.5	<0.237	mg/Kg	5	0.237	10	0.046

Sample: 275971 - Cell-21 (5-6')

Laboratory:	Lubbock									
Analysis:	Cu, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B					
QC Batch:	84574	Date Analyzed:	2011-09-08	Analyzed By:	RR					
Prep Batch:	71780	Sample Preparation:	2011-09-07	Prepared By:	KV					

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	12.5	12.5	<0.0490	mg/Kg	1	0.0490	0.5	0.0476

Sample: 275971 - Cell-21 (5-6')

Laboratory:	Lubbock									
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B					
QC Batch:	84574	Date Analyzed:	2011-09-08	Analyzed By:	RR					
Prep Batch:	71780	Sample Preparation:	2011-09-07	Prepared By:	KV					

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	3260	3260	<0.704	mg/Kg	10	0.704	0.5	0.0683

Sample: 275971 - Cell-21 (5-6')

Laboratory:	Midland									
Analysis:	Moisture Content	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A					
QC Batch:	84430	Date Analyzed:	2011-09-01	Analyzed By:	AR					
Prep Batch:	71664	Sample Preparation:	2011-08-31	Prepared By:	AR					

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	2.95	%	1	0

Sample: 275971 - Cell-21 (5-6')

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Laboratory:	Lubbock	Analytical Method:	S 6010C	Prep Method:	S 3050B
Analysis:	Total 8 Metals	Date Analyzed:	2011-09-08	Analyzed By:	RR
QC Batch:	84574	Sample Preparation:	2011-09-07	Prepared By:	KV
Prep Batch:	71780				
Laboratory:	Lubbock	Analytical Method:	S 7471 B	Prep Method:	N/A
Analysis:	Total 8 Metals	Date Analyzed:	2011-09-08	Analyzed By:	KV
QC Batch:	84589	Sample Preparation:	2011-09-08	Prepared By:	KV
Prep Batch:	71817				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0685	<0.515	<0.0685	mg/Kg	1	0.0685	0.5	0.0665
Total Arsenic		1	5.33	5.33	<0.197	mg/Kg	1	0.197	2	0.191
Total Barium		1	340	340	<0.0168	mg/Kg	1	0.0168	1	0.0163
Total Cadmium	u	1	<0.0229	<0.515	<0.0229	mg/Kg	1	0.0229	0.5	0.0222
Total Chromium		1	4.08	4.08	<0.0491	mg/Kg	1	0.0491	0.5	0.0477
Total Mercury	J	1	0.00835	<0.0258	<0.00204	mg/Kg	1	0.00204	0.025	0.00198
Total Lead	u	1	<0.0932	<1.03	<0.0932	mg/Kg	1	0.0932	1	0.0905
Total Selenium	u	1	<0.307	<2.06	<0.307	mg/Kg	1	0.307	2	0.298

Sample: 275971 - Cell-21 (5-6')

Laboratory:	Lubbock	Analytical Method:	E 418.1	Prep Method:	N/A
Analysis:	TPH 418.1	Date Analyzed:	2011-09-07	Analyzed By:	DS
QC Batch:	84551	Sample Preparation:	2011-09-06	Prepared By:	DS
Prep Batch:	71806				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			295	295	<4.94	mg/Kg	1	4.94	10	4.79

Sample: 275971 - Cell-21 (5-6')

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2011-09-01	Analyzed By:	kg
QC Batch:	84453	Sample Preparation:	2011-09-01	Prepared By:	kg
Prep Batch:	71717				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	2	<14.9	<51.5	<14.9	mg/Kg	1	14.9	50	14.5

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Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			86.9	mg/Kg	1	100	87	67.5 - 147.1

Sample: 275971 - Cell-21 (5-6')

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 84490 Date Analyzed: 2011-09-06 Analyzed By: AG
Prep Batch: 71750 Sample Preparation: 2011-09-04 Prepared By: AG

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.776	<2.06	<0.776	mg/Kg	1	0.776	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.20	mg/Kg	1	2.00	110	30 - 134.6
4-Bromofluorobenzene (4-BFB)	j		1.98	mg/Kg	1	2.00	99	22.4 - 149

Sample: 275971 - Cell-21 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR
Prep Batch: 71780 Sample Preparation: 2011-09-07 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	18.8	18.8	<0.106	mg/Kg	1	0.106	1	0.103

Sample: 275972 - Cell-26 (5-6')

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 84489 Date Analyzed: 2011-09-05 Analyzed By: AG
Prep Batch: 71750 Sample Preparation: 2011-09-04 Prepared By: AG

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0133	<0.0225	<0.0133	mg/Kg	1	0.0133	0.02	0.0118

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sample 275972 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Toluene	U	2	<0.00676	<0.0225	<0.00676	mg/Kg	1	0.00676	0.02	0.006
Ethylbenzene	U	2	<0.00958	<0.0225	<0.00958	mg/Kg	1	0.00958	0.02	0.0085
Xylene	U	2	<0.00691	<0.0225	<0.00691	mg/Kg	1	0.00691	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.23	mg/Kg	1	2.00	112	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	70.6 - 179

Sample: 275972 - Cell-26 (5-6')

Laboratory:	Midland						
Analysis:	Chloride (IC)		Analytical Method:	E 300.0		Prep Method:	N/A
QC Batch:	84422		Date Analyzed:	2011-08-31		Analyzed By:	AR
Prep Batch:	71667		Sample Preparation:	2011-08-31		Prepared By:	AR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		5.22	<56.5	<0.259	mg/Kg	5	0.259	10	0.046

Sample: 275972 - Cell-26 (5-6')

Laboratory:	Lubbock						
Analysis:	Cu, Total		Analytical Method:	S 6010C		Prep Method:	S 3050B
QC Batch:	84574		Date Analyzed:	2011-09-08		Analyzed By:	RR
Prep Batch:	71780		Sample Preparation:	2011-09-07		Prepared By:	KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	1.33	1.33	<0.0537	mg/Kg	1	0.0537	0.5	0.0476

Sample: 275972 - Cell-26 (5-6')

Laboratory:	Lubbock						
Analysis:	Fe, Total		Analytical Method:	S 6010C		Prep Method:	S 3050B
QC Batch:	84574		Date Analyzed:	2011-09-08		Analyzed By:	RR
Prep Batch:	71780		Sample Preparation:	2011-09-07		Prepared By:	KV

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	5430	5430	<0.770	mg/Kg	10	0.770	0.5	0.0683

Sample: 275972 - Cell-26 (5-6')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 84430 Date Analyzed: 2011-09-01 Analyzed By: AR
 Prep Batch: 71664 Sample Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	11.3	%	1	0

Sample: 275972 - Cell-26 (5-6')

Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR
 Prep Batch: 71780 Sample Preparation: 2011-09-07 Prepared By: KV
 Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 84589 Date Analyzed: 2011-09-08 Analyzed By: KV
 Prep Batch: 71817 Sample Preparation: 2011-09-08 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	U	1	<0.0750	<0.564	<0.0750	mg/Kg	1	0.0750	0.5	0.0665
Total Arsenic		1	4.86	4.86	<0.215	mg/Kg	1	0.215	2	0.191
Total Barium		1	552	552	<0.0184	mg/Kg	1	0.0184	1	0.0163
Total Cadmium	U	1	<0.0250	<0.564	<0.0250	mg/Kg	1	0.0250	0.5	0.0222
Total Chromium		1	5.72	5.72	<0.0538	mg/Kg	1	0.0538	0.5	0.0477
Total Mercury	J	1	0.00451	<0.0282	<0.00223	mg/Kg	1	0.00223	0.025	0.00198
Total Lead	U	1	<0.102	<1.13	<0.102	mg/Kg	1	0.102	1	0.0905
Total Selenium	U	1	<0.336	<2.25	<0.336	mg/Kg	1	0.336	2	0.298

Sample: 275972 - Cell-26 (5-6')

Laboratory: Lubbock
 Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
 QC Batch: 84551 Date Analyzed: 2011-09-07 Analyzed By: DS
 Prep Batch: 71806 Sample Preparation: 2011-09-06 Prepared By: DS

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			36.2	36.2	<5.40	mg/Kg	1	5.40	10	4.79

Sample: 275972 - Cell-26 (5-6')

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 84453

Prep Batch: 71717

Analytical Method: S 8015 D

Date Analyzed: 2011-09-01

Sample Preparation: 2011-09-01

Prep Method: N/A

Analyzed By: kg

Prepared By: kg

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	2	<16.3	<56.4	<16.3	mg/Kg	1	16.3	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			90.2	mg/Kg	1	100	90	67.5 - 147.1

Sample: 275972 - Cell-26 (5-6')

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 84490

Prep Batch: 71750

Analytical Method: S 8015 D

Date Analyzed: 2011-09-06

Sample Preparation: 2011-09-04

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.849	<2.25	<0.849	mg/Kg	1	0.849	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1	2.00	107	30 - 134.6
4-Bromofluorobenzene (4-BFB)	j		1.93	mg/Kg	1	2.00	96	22.4 - 149

Sample: 275972 - Cell-26 (5-6')

Laboratory: Lubbock

Analysis: Zn, Total

QC Batch: 84574

Prep Batch: 71780

Analytical Method: S 6010C

Date Analyzed: 2011-09-08

Sample Preparation: 2011-09-07

Prep Method: S 3050B

Analyzed By: RR

Prepared By: KV

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	14.5	14.5	<0.116	mg/Kg	1	0.116	1	0.103

Sample: 275973 - Cell-25 (5-6')

Laboratory: Midland
Analysis: BTEX
QC Batch: 84489
Prep Batch: 71750

Analytical Method: S 8021B
Date Analyzed: 2011-09-05
Sample Preparation: 2011-09-04

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	2	<0.0126	<0.0213	<0.0126	mg/Kg	1	0.0126	0.02	0.0118
Toluene	U	2	<0.00640	<0.0213	<0.00640	mg/Kg	1	0.00640	0.02	0.006
Ethylbenzene	U	2	<0.00906	<0.0213	<0.00906	mg/Kg	1	0.00906	0.02	0.0085
Xylene	U	2	<0.00654	<0.0213	<0.00654	mg/Kg	1	0.00654	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.32	mg/Kg	1	2.00	116	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.18	mg/Kg	1	2.00	109	70.6 - 179

Sample: 275973 - Cell-25 (5-6')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 84422
Prep Batch: 71667

Analytical Method: E 300.0
Date Analyzed: 2011-08-31
Sample Preparation: 2011-08-31

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		5.90	<53.5	<0.245	mg/Kg	5	0.245	10	0.046

Sample: 275973 - Cell-25 (5-6')

Laboratory: Lubbock
Analysis: Cu, Total
QC Batch: 84574
Prep Batch: 71780

Analytical Method: S 6010C
Date Analyzed: 2011-09-08
Sample Preparation: 2011-09-07

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	1.97	1.97	<0.0508	mg/Kg	1	0.0508	0.5	0.0476

Sample: 275973 - Cell-25 (5-6')

Laboratory: Lubbock
 Analysis: Fe, Total Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR
 Prep Batch: 71780 Sample Preparation: 2011-09-07 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	2760	2760	<0.728	mg/Kg	10	0.728	0.5	0.0683

Sample: 275973 - Cell-25 (5-6')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 84430 Date Analyzed: 2011-09-01 Analyzed By: AR
 Prep Batch: 71664 Sample Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	6.22	%	1	0

Sample: 275973 - Cell-25 (5-6')

Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR
 Prep Batch: 71780 Sample Preparation: 2011-09-07 Prepared By: KV
 Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 84589 Date Analyzed: 2011-09-08 Analyzed By: KV
 Prep Batch: 71817 Sample Preparation: 2011-09-08 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0709	<0.533	<0.0709	mg/Kg	1	0.0709	0.5	0.0665
Total Arsenic		1	4.62	4.62	<0.204	mg/Kg	1	0.204	2	0.191
Total Barium		1	533	533	<0.0174	mg/Kg	1	0.0174	1	0.0163
Total Cadmium	u	1	<0.0237	<0.533	<0.0237	mg/Kg	1	0.0237	0.5	0.0222

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sample 275973 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Chromium		1	3.61	3.61	<0.0509	mg/Kg	1	0.0509	0.5	0.0477
Total Mercury	J	1	0.00552	<0.0266	<0.00211	mg/Kg	1	0.00211	0.025	0.00198
Total Lead	U	1	<0.0965	<1.07	<0.0965	mg/Kg	1	0.0965	1	0.0905
Total Selenium	U	1	<0.318	<2.13	<0.318	mg/Kg	1	0.318	2	0.298

Sample: 275973 - Cell-25 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 84551
Prep Batch: 71806

Analytical Method: E 418.1
Date Analyzed: 2011-09-07
Sample Preparation: 2011-09-06

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	J		6.71	<10.7	<5.11	mg/Kg	1	5.11	10	4.79

Sample: 275973 - Cell-25 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 84453
Prep Batch: 71717

Analytical Method: S 8015 D
Date Analyzed: 2011-09-01
Sample Preparation: 2011-09-01

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	2	<15.5	<53.3	<15.5	mg/Kg	1	15.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			88.8	mg/Kg	1	100	89	67.5 - 147.1

Sample: 275973 - Cell-25 (5-6')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 84490
Prep Batch: 71750

Analytical Method: S 8015 D
Date Analyzed: 2011-09-06
Sample Preparation: 2011-09-04

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

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.803	<2.13	<0.803	mg/Kg	1	0.803	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.23	mg/Kg	1	2.00	112	30 - 134.6
4-Bromofluorobenzene (4-BFB)			2.00	mg/Kg	1	2.00	100	22.4 - 149

Sample: 275973 - Cell-25 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 84574
Prep Batch: 71780

Analytical Method: S 6010C
Date Analyzed: 2011-09-08
Sample Preparation: 2011-09-07

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	9.01	9.01	<0.110	mg/Kg	1	0.110	1	0.103

Method Blanks

Method Blank (1)

QC Batch: 84421 Date Analyzed: 2011-08-31 Analyzed By: AR
Prep Batch: 71666 QC Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	Result	Units	Reporting Limits
Chloride			<0.0460	mg/Kg	0.046

Method Blank (1)

QC Batch: 84422 Date Analyzed: 2011-08-31 Analyzed By: AR
Prep Batch: 71667 QC Preparation: 2011-08-31 Prepared By: AR

Parameter	F	C	Result	Units	Reporting Limits
Chloride			<0.0460	mg/Kg	0.046

Method Blank (1)

QC Batch: 84453 Date Analyzed: 2011-09-01 Analyzed By: kg
Prep Batch: 71717 QC Preparation: 2011-09-01 Prepared By: kg

Parameter	F	C	Result	Units	Reporting Limits
DRO		2	<14.5	mg/Kg	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			84.7	mg/Kg	1	100	85	52.7 - 133.8

Method Blank (1)

QC Batch: 84487 Date Analyzed: 2011-09-04 Analyzed By: AG
Prep Batch: 71750 QC Preparation: 2011-09-04 Prepared By: AG

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Parameter	F	C	Result	Units	Reporting Limits
Benzene		2	<0.0118	mg/Kg	0.0118
Toluene		2	<0.00600	mg/Kg	0.006
Ethylbenzene		2	<0.00850	mg/Kg	0.0085
Xylene		2	<0.00613	mg/Kg	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.16	mg/Kg	1	2.00	108	65.9 - 111.8
4-Bromofluorobenzene (4-BFB)			2.01	mg/Kg	1	2.00	100	48.4 - 123.1

Method Blank (1)

QC Batch: 84488
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Parameter	F	C	Result	Units	Reporting Limits
GRO		2	<0.753	mg/Kg	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.09	mg/Kg	1	2.00	104	67.6 - 150
4-Bromofluorobenzene (4-BFB)			1.89	mg/Kg	1	2.00	94	52.4 - 130

Method Blank (1)

QC Batch: 84489
Prep Batch: 71750

Date Analyzed: 2011-09-05
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Parameter	F	C	Result	Units	Reporting Limits
Benzene		2	<0.0118	mg/Kg	0.0118
Toluene		2	<0.00600	mg/Kg	0.006
Ethylbenzene		2	<0.00850	mg/Kg	0.0085
Xylene		2	<0.00613	mg/Kg	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.93	mg/Kg	1	2.00	96	65.9 - 111.8
4-Bromofluorobenzene (4-BFB)			1.75	mg/Kg	1	2.00	88	48.4 - 123.1

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Method Blank (1)

QC Batch: 84490
Prep Batch: 71750

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Parameter	F	C	Result	Units	Reporting Limits
GRO		2	<0.753	mg/Kg	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	67.6 - 150
4-Bromofluorobenzene (4-BFB)			1.66	mg/Kg	1	2.00	83	52.4 - 130

Method Blank (1)

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Copper		1	<0.0476	mg/Kg	0.0476

Method Blank (1)

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Iron		1	<0.0683	mg/Kg	0.0683

Method Blank (1)

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Zinc		1	<0.103	mg/Kg	0.103

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Method Blank (1)

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Silver		1	<0.0665	mg/Kg	0.0665
Total Arsenic		1	<0.191	mg/Kg	0.191
Total Barium		1	<0.0163	mg/Kg	0.0163
Total Cadmium		1	<0.0222	mg/Kg	0.0222
Total Chromium		1	<0.0477	mg/Kg	0.0477
Total Lead		1	<0.0905	mg/Kg	0.0905
Total Selenium		1	<0.298	mg/Kg	0.298

Method Blank (1)

QC Batch: 84551
Prep Batch: 71806

Date Analyzed: 2011-09-07
QC Preparation: 2011-09-06

Analyzed By: DS
Prepared By: DS

Parameter	F	C	Result	Units	Reporting Limits
TRPHC			<4.79	mg/Kg	4.79

Method Blank (1)

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Copper		1	<0.0476	mg/Kg	0.0476

Method Blank (1)

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Iron		1	<0.0683	mg/Kg	0.0683

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Method Blank (1)

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Zinc		1	<0.103	mg/Kg	0.103

Method Blank (1)

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Silver		1	<0.0665	mg/Kg	0.0665
Total Arsenic		1	<0.191	mg/Kg	0.191
Total Barium		1	<0.0163	mg/Kg	0.0163
Total Cadmium		1	<0.0222	mg/Kg	0.0222
Total Chromium		1	<0.0477	mg/Kg	0.0477
Total Lead		1	<0.0905	mg/Kg	0.0905
Total Selenium		1	<0.298	mg/Kg	0.298

Method Blank (1)

QC Batch: 84589
Prep Batch: 71817

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-08

Analyzed By: KV
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Mercury		1	<0.00198	mg/Kg	0.00198

Duplicate (1) Duplicated Sample: 275973

QC Batch: 84430
Prep Batch: 71664

Date Analyzed: 2011-09-01
QC Preparation: 2011-08-31

Analyzed By: AR
Prepared By: AR

continued ...

duplicate continued ...

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		2	5.81	6.22	%	1	7	20

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 84421
Prep Batch: 71666

Date Analyzed: 2011-08-31
QC Preparation: 2011-08-31

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			24.1	mg/Kg	1	25.0	<0.0460	96	82.7 - 117

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
Chloride			23.9	mg/Kg	1	25.0	<0.0460	96	82.7 - 117	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 84422
Prep Batch: 71667

Date Analyzed: 2011-08-31
QC Preparation: 2011-08-31

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			24.2	mg/Kg	1	25.0	<0.0460	97	82.7 - 117

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
Chloride			23.9	mg/Kg	1	25.0	<0.0460	96	82.7 - 117	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 84453
Prep Batch: 71717

Date Analyzed: 2011-09-01
QC Preparation: 2011-09-01

Analyzed By: kg
Prepared By: kg

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	209	mg/Kg	1	250	<14.5	84	64.5 - 146.9

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

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		2	221	mg/Kg	1	250	<14.5	88	64.5 - 146.9	6	20

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

Surrogate	F	C	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
n-Tricosane			87.2	89.2	mg/Kg	1	100	87	89	65.3 - 135.8

Laboratory Control Spike (LCS-1)

QC Batch: 84487
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.01	mg/Kg	1	2.00	<0.0118	100	77.4 - 121.7
Toluene		2	2.04	mg/Kg	1	2.00	<0.00600	102	88.6 - 121.6
Ethylbenzene		2	2.04	mg/Kg	1	2.00	<0.00850	102	74.3 - 117.9
Xylene		2	6.13	mg/Kg	1	6.00	<0.00613	102	73.4 - 118.8

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		2	1.91	mg/Kg	1	2.00	<0.0118	96	77.4 - 121.7	5	20
Toluene		2	1.94	mg/Kg	1	2.00	<0.00600	97	88.6 - 121.6	5	20
Ethylbenzene		2	1.91	mg/Kg	1	2.00	<0.00850	96	74.3 - 117.9	7	20
Xylene		2	5.77	mg/Kg	1	6.00	<0.00613	96	73.4 - 118.8	6	20

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

Surrogate	F	C	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.11	2.05	mg/Kg	1	2.00	106	102	65.5 - 116.7
4-Bromofluorobenzene (4-BFB)			2.09	2.02	mg/Kg	1	2.00	104	101	56.2 - 132.1

Laboratory Control Spike (LCS-1)

QC Batch: 84488
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	17.8	mg/Kg	1	20.0	<0.753	89	60.9 - 95.4

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

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Param	LCSD		Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit		RPD	
	F	C	Result							RPD	Limit
GRO		2	17.8	mg/Kg	1	20.0	<0.753	89	60.9 - 95.4	0	20

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

Surrogate	F	C	LCS	LCSD	Units	Dil.	Spike Amount	LCS	LCSD	Rec. Limit	
			Result	Result				Rec.	Rec.		
Trifluorotoluene (TFT)			2.08	2.12	mg/Kg	1	2.00	104	106	61.9 - 142	
4-Bromofluorobenzene (4-BFB)			1.97	1.99	mg/Kg	1	2.00	98	100	68.2 - 132	

Laboratory Control Spike (LCS-1)

QC Batch: 84489
Prep Batch: 71750

Date Analyzed: 2011-09-05
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	
			Result							
Benzene		2	1.95	mg/Kg	1	2.00	<0.0118	98	77.4 - 121.7	
Toluene		2	1.93	mg/Kg	1	2.00	<0.00600	96	88.6 - 121.6	
Ethylbenzene		2	1.88	mg/Kg	1	2.00	<0.00850	94	74.3 - 117.9	
Xylene		2	5.64	mg/Kg	1	6.00	<0.00613	94	73.4 - 118.8	

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Benzene		2	1.92	mg/Kg	1	2.00	<0.0118	96	77.4 - 121.7	2	20
Toluene		2	1.91	mg/Kg	1	2.00	<0.00600	96	88.6 - 121.6	1	20
Ethylbenzene		2	1.89	mg/Kg	1	2.00	<0.00850	94	74.3 - 117.9	0	20
Xylene		2	5.64	mg/Kg	1	6.00	<0.00613	94	73.4 - 118.8	0	20

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

Surrogate	F	C	LCS	LCSD	Units	Dil.	Spike Amount	LCS	LCSD	Rec. Limit	
			Result	Result				Rec.	Rec.		
Trifluorotoluene (TFT)			1.89	1.88	mg/Kg	1	2.00	94	94	65.5 - 116.7	
4-Bromofluorobenzene (4-BFB)			1.90	1.83	mg/Kg	1	2.00	95	92	56.2 - 132.1	

Laboratory Control Spike (LCS-1)

QC Batch: 84490
Prep Batch: 71750

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	
			Result							
GRO		2	15.9	mg/Kg	1	20.0	<0.753	80	60.9 - 95.4	

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

Param			LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec.		RPD	
	F	C	Result	Units					Limit		RPD	Limit
GRO		2	15.5	mg/Kg	1	20.0	<0.753	78	60.9 - 95.4		2	20

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

Surrogate			LCS		LCSD		Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec.	
	F	C	Result	Units	Result	Units					Limit	
Trifluorotoluene (TFT)			1.94	mg/Kg	1.88	mg/Kg	1	2.00	97	94	61.9 - 142	
4-Bromofluorobenzene (4-BFB)			1.80	mg/Kg	1.74	mg/Kg	1	2.00	90	87	68.2 - 132	

Laboratory Control Spike (LCS-1)

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Param			LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec.	
	F	C	Result	Units					Limit	
Total Copper		1	12.8	mg/Kg	1	12.5	<0.0476	102	85 - 115	

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

Param			LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec.		RPD	
	F	C	Result	Units					Limit		RPD	Limit
Total Copper		1	12.7	mg/Kg	1	12.5	<0.0476	102	85 - 115		1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Param			LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec.	
	F	C	Result	Units					Limit	
Total Iron		1	52.3	mg/Kg	1	50.0	<0.0683	105	85 - 115	

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

Param			LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec.		RPD	
	F	C	Result	Units					Limit		RPD	Limit
Total Iron		1	54.1	mg/Kg	1	50.0	<0.0683	108	85 - 115		3	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		1	25.1	mg/Kg	1	25.0	<0.103	100	85 - 115

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
Total Zinc		1	25.5	mg/Kg	1	25.0	<0.103	102	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		1	12.6	mg/Kg	1	12.5	<0.0665	101	85 - 115
Total Arsenic		1	50.7	mg/Kg	1	50.0	<0.191	101	85 - 115
Total Barium		1	104	mg/Kg	1	100	<0.0163	104	85 - 115
Total Cadmium		1	24.4	mg/Kg	1	25.0	<0.0222	98	85 - 115
Total Chromium		1	9.64	mg/Kg	1	10.0	<0.0477	96	85 - 115
Total Lead		1	51.1	mg/Kg	1	50.0	<0.0905	102	85 - 115
Total Selenium		1	48.2	mg/Kg	1	50.0	<0.298	96	85 - 115

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
Total Silver		1	12.8	mg/Kg	1	12.5	<0.0665	102	85 - 115	2	20
Total Arsenic		1	51.3	mg/Kg	1	50.0	<0.191	103	85 - 115	1	20
Total Barium		1	103	mg/Kg	1	100	<0.0163	103	85 - 115	1	20
Total Cadmium		1	24.5	mg/Kg	1	25.0	<0.0222	98	85 - 115	0	20
Total Chromium		1	9.57	mg/Kg	1	10.0	<0.0477	96	85 - 115	1	20
Total Lead		1	51.1	mg/Kg	1	50.0	<0.0905	102	85 - 115	0	20
Total Selenium		1	48.0	mg/Kg	1	50.0	<0.298	96	85 - 115	0	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 84551
Prep Batch: 71806

Date Analyzed: 2011-09-07
QC Preparation: 2011-09-06

Analyzed By: DS
Prepared By: DS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			281	mg/Kg	1	250	<4.79	112	84.3 - 122

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
TRPHC			272	mg/Kg	1	250	<4.79	109	84.3 - 122	3	

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

Laboratory Control Spike (LCS-1)

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper		1	12.9	mg/Kg	1	12.5	<0.0476	103	85 - 115

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
Total Copper		1	12.9	mg/Kg	1	12.5	<0.0476	103	85 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1	54.8	mg/Kg	1	50.0	<0.0683	110	85 - 115

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
Total Iron		1	53.1	mg/Kg	1	50.0	<0.0683	106	85 - 115	3	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		1	25.8	mg/Kg	1	25.0	<0.103	103	85 - 115

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
Total Zinc		1	25.7	mg/Kg	1	25.0	<0.103	103	85 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		1	13.0	mg/Kg	1	12.5	<0.0665	104	85 - 115
Total Arsenic		1	51.6	mg/Kg	1	50.0	<0.191	103	85 - 115
Total Barium		1	104	mg/Kg	1	100	<0.0163	104	85 - 115
Total Cadmium		1	25.5	mg/Kg	1	25.0	<0.0222	102	85 - 115
Total Chromium		1	9.89	mg/Kg	1	10.0	<0.0477	99	85 - 115
Total Lead		1	51.1	mg/Kg	1	50.0	<0.0905	102	85 - 115
Total Selenium		1	46.3	mg/Kg	1	50.0	<0.298	93	85 - 115

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
Total Silver		1	12.6	mg/Kg	1	12.5	<0.0665	101	85 - 115	3	20
Total Arsenic		1	51.0	mg/Kg	1	50.0	<0.191	102	85 - 115	1	20
Total Barium		1	106	mg/Kg	1	100	<0.0163	106	85 - 115	2	20
Total Cadmium		1	25.3	mg/Kg	1	25.0	<0.0222	101	85 - 115	1	20
Total Chromium		1	9.88	mg/Kg	1	10.0	<0.0477	99	85 - 115	0	20
Total Lead		1	51.8	mg/Kg	1	50.0	<0.0905	104	85 - 115	1	20
Total Selenium		1	46.5	mg/Kg	1	50.0	<0.298	93	85 - 115	0	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 84589
Prep Batch: 71817

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-08

Analyzed By: KV
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		1	0.268	mg/Kg	1	0.250	<0.00198	107	80 - 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
Total Mercury		1	0.268	mg/Kg	1	0.250	<0.00198	107	80 - 120	0	20

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

Matrix Spike (MS-1) Spiked Sample: 275962

QC Batch: 84421
Prep Batch: 71666

Date Analyzed: 2011-08-31
QC Preparation: 2011-08-31

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			1350	mg/Kg	50	1380	120	89	60.6 - 124.5

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
Chloride			1340	mg/Kg	50	1380	120	89	60.6 - 124.5	1	20

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

Matrix Spike (MS-1) Spiked Sample: 275973

QC Batch: 84422
Prep Batch: 71667

Date Analyzed: 2011-08-31
QC Preparation: 2011-08-31

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			129	mg/Kg	5	138	5.53	90	60.6 - 124.5

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
Chloride			129	mg/Kg	5	138	5.53	90	60.6 - 124.5	0	20

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

Matrix Spike (MS-1) Spiked Sample: 275973

QC Batch: 84453
Prep Batch: 71717

Date Analyzed: 2011-09-01
QC Preparation: 2011-09-01

Analyzed By: kg
Prepared By: kg

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	204	mg/Kg	1	250	<14.5	82	38.8 - 153.3

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
DRO		2	183	mg/Kg	1	250	<14.5	73	38.8 - 153.3	11	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane			84.1	80.1	mg/Kg	1	100	84	80	54.6 - 149.8

Matrix Spike (MS-1) Spiked Sample: 275960

QC Batch: 84487
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.39	mg/Kg	1	2.00	<0.0118	120	69.4 - 123.6
Toluene		2	2.45	mg/Kg	1	2.00	<0.00600	122	75.4 - 134.3
Ethylbenzene		2	2.51	mg/Kg	1	2.00	<0.00850	126	58.8 - 133.7
Xylene		2	7.48	mg/Kg	1	6.00	<0.00613	125	57 - 134.2

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		2	2.00	mg/Kg	1	2.00	<0.0118	100	69.4 - 123.6	18	20
Toluene		2	2.08	mg/Kg	1	2.00	<0.00600	104	75.4 - 134.3	16	20
Ethylbenzene		2	2.16	mg/Kg	1	2.00	<0.00850	108	58.8 - 133.7	15	20
Xylene		2	6.47	mg/Kg	1	6.00	<0.00613	108	57 - 134.2	14	20

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

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Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.59	2.19	mg/Kg	1	2	130	110	79.4 - 141.1
4-Bromofluorobenzene (4-BFB)			2.58	2.15	mg/Kg	1	2	129	108	71 - 167

Matrix Spike (MS-1) Spiked Sample: 275969

QC Batch: 84488
Prep Batch: 71750

Date Analyzed: 2011-09-04
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	16.3	mg/Kg	1	20.0	<0.753	82	61.8 - 114

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
GRO	Qr	2	21.4	mg/Kg	1	20.0	<0.753	107	61.8 - 114	27	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.25	1.83	mg/Kg	1	2	112	92	29.4 - 161.7
4-Bromofluorobenzene (4-BFB)			2.17	1.86	mg/Kg	1	2	108	93	37.3 - 162

Matrix Spike (MS-1) Spiked Sample: 275973

QC Batch: 84489
Prep Batch: 71750

Date Analyzed: 2011-09-05
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	1.98	mg/Kg	1	2.00	<0.0118	99	69.4 - 123.6
Toluene		2	2.04	mg/Kg	1	2.00	<0.00600	102	75.4 - 134.3
Ethylbenzene		2	2.12	mg/Kg	1	2.00	<0.00850	106	58.8 - 133.7
Xylene		2	6.31	mg/Kg	1	6.00	<0.00613	105	57 - 134.2

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

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matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		2	2.05	mg/Kg	1	2.00	<0.0118	102	69.4 - 123.6	4	20
Toluene		2	2.11	mg/Kg	1	2.00	<0.00600	106	75.4 - 134.3	3	20
Ethylbenzene		2	2.20	mg/Kg	1	2.00	<0.00850	110	58.8 - 133.7	4	20
Xylene		2	6.56	mg/Kg	1	6.00	<0.00613	109	57 - 134.2	4	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.12	2.16	mg/Kg	1	2	106	108	79.4 - 141.1
4-Bromofluorobenzene (4-BFB)			2.07	2.12	mg/Kg	1	2	104	106	71 - 167

Matrix Spike (MS-1) Spiked Sample: 275973

QC Batch: 84490
Prep Batch: 71750

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-04

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	17.6	mg/Kg	1	20.0	<0.753	88	61.8 - 114

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
GRO		2	17.5	mg/Kg	1	20.0	<0.753	88	61.8 - 114	1	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.11	2.10	mg/Kg	1	2	106	105	29.4 - 161.7
4-Bromofluorobenzene (4-BFB)			2.03	2.02	mg/Kg	1	2	102	101	37.3 - 162

Matrix Spike (MS-1) Spiked Sample: 275969

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

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matrix spikes continued ...

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper		1	15.0	mg/Kg	1	12.5	3.33	93	75 - 125

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
Total Copper		1	15.4	mg/Kg	1	12.5	3.33	97	75 - 125	3	20

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

Matrix Spike (MS-1) Spiked Sample: 275969

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1	1980	mg/Kg	1	50.0	1940	80	75 - 125

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
Total Iron		1	1990	mg/Kg	1	50.0	1940	100	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 275969

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		1	28.7	mg/Kg	1	25.0	6.73	88	75 - 125

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
Total Zinc		1	28.4	mg/Kg	1	25.0	6.73	87	75 - 125	1	20

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

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Matrix Spike (MS-1) Spiked Sample: 275969

QC Batch: 84507
Prep Batch: 71724

Date Analyzed: 2011-09-06
QC Preparation: 2011-09-02

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		1	12.9	mg/Kg	1	12.5	<0.0665	103	75 - 125
Total Arsenic		1	56.9	mg/Kg	1	50.0	4.56	105	75 - 125
Total Barium		1	420	mg/Kg	1	100	318	102	75 - 125
Total Cadmium		1	22.3	mg/Kg	1	25.0	<0.0222	89	75 - 125
Total Chromium		1	11.2	mg/Kg	1	10.0	2.26	89	75 - 125
Total Lead		1	46.5	mg/Kg	1	50.0	<0.0905	93	75 - 125
Total Selenium		1	44.8	mg/Kg	1	50.0	<0.298	90	75 - 125

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
Total Silver		1	11.6	mg/Kg	1	12.5	<0.0665	93	75 - 125	11	20
Total Arsenic		1	55.2	mg/Kg	1	50.0	4.56	101	75 - 125	3	20
Total Barium		1	423	mg/Kg	1	100	318	105	75 - 125	1	20
Total Cadmium		1	23.0	mg/Kg	1	25.0	<0.0222	92	75 - 125	3	20
Total Chromium		1	10.6	mg/Kg	1	10.0	2.26	83	75 - 125	6	20
Total Lead		1	51.8	mg/Kg	1	50.0	<0.0905	104	75 - 125	11	20
Total Selenium		1	45.2	mg/Kg	1	50.0	<0.298	90	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 275964

QC Batch: 84551
Prep Batch: 71806

Date Analyzed: 2011-09-07
QC Preparation: 2011-09-06

Analyzed By: DS
Prepared By: DS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			658	mg/Kg	1	250	395	105	43 - 161

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
TRPHC			664	mg/Kg	1	250	395	108	43 - 161	1	

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

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Matrix Spike (MS-1) Spiked Sample: 275971

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper		1	24.3	mg/Kg	1	12.5	12.1	98	75 - 125

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
Total Copper		1	24.6	mg/Kg	1	12.5	12.1	100	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 275971

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1	3200	mg/Kg	1	50.0	3160	80	75 - 125

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
Total Iron		1	3200	mg/Kg	1	50.0	3160	80	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 275971

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		1	42.3	mg/Kg	1	25.0	18.2	96	75 - 125

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
Total Zinc		1	41.6	mg/Kg	1	25.0	18.2	94	75 - 125	2	20

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

Matrix Spike (MS-1) Spiked Sample: 275971

QC Batch: 84574
Prep Batch: 71780

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-07

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		1	12.2	mg/Kg	1	12.5	<0.0665	98	75 - 125
Total Arsenic		1	56.4	mg/Kg	1	50.0	5.17	102	75 - 125
Total Barium		1	423	mg/Kg	1	100	330	93	75 - 125
Total Cadmium		1	22.8	mg/Kg	1	25.0	<0.0222	91	75 - 125
Total Chromium		1	13.2	mg/Kg	1	10.0	3.96	92	75 - 125
Total Lead		1	51.2	mg/Kg	1	50.0	<0.0905	102	75 - 125
Total Selenium		1	44.5	mg/Kg	1	50.0	<0.298	89	75 - 125

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
Total Silver		1	12.9	mg/Kg	1	12.5	<0.0665	103	75 - 125	6	20
Total Arsenic		1	57.9	mg/Kg	1	50.0	5.17	105	75 - 125	3	20
Total Barium		1	425	mg/Kg	1	100	330	95	75 - 125	0	20
Total Cadmium		1	22.8	mg/Kg	1	25.0	<0.0222	91	75 - 125	0	20
Total Chromium		1	13.3	mg/Kg	1	10.0	3.96	93	75 - 125	1	20
Total Lead		1	52.6	mg/Kg	1	50.0	<0.0905	105	75 - 125	3	20
Total Selenium		1	45.0	mg/Kg	1	50.0	<0.298	90	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 275969

QC Batch: 84589
Prep Batch: 71817

Date Analyzed: 2011-09-08
QC Preparation: 2011-09-08

Analyzed By: KV
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		1	0.266	mg/Kg	1	0.250	0.0055	104	80 - 120

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
Total Mercury		1	0.269	mg/Kg	1	0.250	0.0055	105	80 - 120	1	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 84421 Date Analyzed: 2011-08-31 Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	24.0	96	90 - 110	2011-08-31

Standard (CCV-1)

QC Batch: 84421 Date Analyzed: 2011-08-31 Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	23.9	96	90 - 110	2011-08-31

Standard (ICV-1)

QC Batch: 84422 Date Analyzed: 2011-08-31 Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	23.9	96	90 - 110	2011-08-31

Standard (CCV-1)

QC Batch: 84422 Date Analyzed: 2011-08-31 Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	23.9	96	90 - 110	2011-08-31

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Standard (CCV-1)

QC Batch: 84453 Date Analyzed: 2011-09-01 Analyzed By: kg

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	219	88	80 - 120	2011-09-01

Standard (CCV-2)

QC Batch: 84453 Date Analyzed: 2011-09-01 Analyzed By: kg

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	200	80	80 - 120	2011-09-01

Standard (CCV-3)

QC Batch: 84453 Date Analyzed: 2011-09-01 Analyzed By: kg

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	228	91	80 - 120	2011-09-01

Standard (CCV-2)

QC Batch: 84487 Date Analyzed: 2011-09-04 Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.109	109	80 - 120	2011-09-04
Toluene		2	mg/Kg	0.100	0.109	109	80 - 120	2011-09-04
Ethylbenzene		2	mg/Kg	0.100	0.108	108	80 - 120	2011-09-04
Xylene		2	mg/Kg	0.300	0.322	107	80 - 120	2011-09-04

Standard (CCV-3)

QC Batch: 84487 Date Analyzed: 2011-09-04 Analyzed By: AG

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.107	107	80 - 120	2011-09-04
Toluene		2	mg/Kg	0.100	0.105	105	80 - 120	2011-09-04
Ethylbenzene		2	mg/Kg	0.100	0.103	103	80 - 120	2011-09-04
Xylene		2	mg/Kg	0.300	0.308	103	80 - 120	2011-09-04

Standard (CCV-2)

QC Batch: 84488

Date Analyzed: 2011-09-04

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	1.02	102	80 - 120	2011-09-04

Standard (CCV-3)

QC Batch: 84488

Date Analyzed: 2011-09-04

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	1.04	104	80 - 120	2011-09-04

Standard (CCV-1)

QC Batch: 84489

Date Analyzed: 2011-09-05

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.0992	99	80 - 120	2011-09-05
Toluene		2	mg/Kg	0.100	0.0989	99	80 - 120	2011-09-05
Ethylbenzene		2	mg/Kg	0.100	0.0971	97	80 - 120	2011-09-05
Xylene		2	mg/Kg	0.300	0.290	97	80 - 120	2011-09-05

Standard (CCV-2)

QC Batch: 84489

Date Analyzed: 2011-09-05

Analyzed By: AG

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.0965	96	80 - 120	2011-09-05
Toluene		2	mg/Kg	0.100	0.0953	95	80 - 120	2011-09-05
Ethylbenzene		2	mg/Kg	0.100	0.0928	93	80 - 120	2011-09-05
Xylene		2	mg/Kg	0.300	0.275	92	80 - 120	2011-09-05

Standard (CCV-1)

QC Batch: 84490

Date Analyzed: 2011-09-06

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	1.06	106	80 - 120	2011-09-06

Standard (CCV-2)

QC Batch: 84490

Date Analyzed: 2011-09-06

Analyzed By: AG

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	1.00	100	80 - 120	2011-09-06

Standard (ICV-1)

QC Batch: 84507

Date Analyzed: 2011-09-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		1	mg/Kg	1.00	1.04	104	90 - 110	2011-09-06

Standard (ICV-1)

QC Batch: 84507

Date Analyzed: 2011-09-06

Analyzed By: RR

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1	mg/Kg	1.00	1.03	103	90 - 110	2011-09-06

Standard (ICV-1)

QC Batch: 84507

Date Analyzed: 2011-09-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		1	mg/Kg	1.00	0.993	99	90 - 110	2011-09-06

Standard (ICV-1)

QC Batch: 84507

Date Analyzed: 2011-09-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		1	mg/Kg	0.125	0.129	103	90 - 110	2011-09-06
Total Arsenic		1	mg/Kg	1.00	1.00	100	90 - 110	2011-09-06
Total Barium		1	mg/Kg	1.00	1.04	104	90 - 110	2011-09-06
Total Cadmium		1	mg/Kg	1.00	1.03	103	90 - 110	2011-09-06
Total Chromium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-06
Total Lead		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-06
Total Selenium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-06

Standard (CCV-1)

QC Batch: 84507

Date Analyzed: 2011-09-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		1	mg/Kg	1.00	1.02	102	90 - 110	2011-09-06

Standard (CCV-1)

QC Batch: 84507

Date Analyzed: 2011-09-06

Analyzed By: RR

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1	mg/Kg	1.00	1.06	106	90 - 110	2011-09-06

Standard (CCV-1)

QC Batch: 84507

Date Analyzed: 2011-09-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-06

Standard (CCV-1)

QC Batch: 84507

Date Analyzed: 2011-09-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		1	mg/Kg	0.125	0.129	103	90 - 110	2011-09-06
Total Arsenic		1	mg/Kg	1.00	1.00	100	90 - 110	2011-09-06
Total Barium		1	mg/Kg	1.00	1.07	107	90 - 110	2011-09-06
Total Cadmium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-06
Total Chromium		1	mg/Kg	1.00	1.02	102	90 - 110	2011-09-06
Total Lead		1	mg/Kg	1.00	0.987	99	90 - 110	2011-09-06
Total Selenium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-06

Standard (CCV-2)

QC Batch: 84551

Date Analyzed: 2011-09-07

Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	111	111	80 - 120	2011-09-07

Standard (CCV-3)

QC Batch: 84551

Date Analyzed: 2011-09-07

Analyzed By: DS

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	109	109	80 - 120	2011-09-07

Standard (ICV-1)

QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		1	mg/Kg	1.00	0.981	98	90 - 110	2011-09-08

Standard (ICV-1)

QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1	mg/Kg	1.00	1.04	104	90 - 110	2011-09-08

Standard (ICV-1)

QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		1	mg/Kg	1.00	1.02	102	90 - 110	2011-09-08

Standard (ICV-1)

QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		1	mg/Kg	0.125	0.126	101	90 - 110	2011-09-08
Total Arsenic		1	mg/Kg	1.00	1.03	103	90 - 110	2011-09-08

continued ...

standard continued ...

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Barium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-08
Total Cadmium		1	mg/Kg	1.00	1.05	105	90 - 110	2011-09-08
Total Chromium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-08
Total Lead		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-08
Total Selenium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-08

Standard (CCV-1)

QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-08

Standard (CCV-1)

QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1	mg/Kg	1.00	1.04	104	90 - 110	2011-09-08

Standard (CCV-1)

QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		1	mg/Kg	1.00	1.01	101	90 - 110	2011-09-08

Standard (CCV-1)

QC Batch: 84574 Date Analyzed: 2011-09-08 Analyzed By: RR

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		1	mg/Kg	0.125	0.124	99	90 - 110	2011-09-08
Total Arsenic		1	mg/Kg	1.00	1.02	102	90 - 110	2011-09-08
Total Barium		1	mg/Kg	1.00	1.06	106	90 - 110	2011-09-08
Total Cadmium		1	mg/Kg	1.00	1.04	104	90 - 110	2011-09-08
Total Chromium		1	mg/Kg	1.00	1.02	102	90 - 110	2011-09-08
Total Lead		1	mg/Kg	1.00	1.02	102	90 - 110	2011-09-08
Total Selenium		1	mg/Kg	1.00	1.02	102	90 - 110	2011-09-08

Standard (ICV-1)

QC Batch: 84589

Date Analyzed: 2011-09-08

Analyzed By: KV

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		1	mg/L	0.0100	0.0101	101	90 - 110	2011-09-08

Standard (CCV-1)

QC Batch: 84589

Date Analyzed: 2011-09-08

Analyzed By: KV

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		1	mg/L	0.0100	0.0104	104	80 - 120	2011-09-08

Appendix

Laboratory Certifications

	Certifying C Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-11-4	Lubbock
2	NELAP	T104704392-10-TX	Midland

Standard Flags

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

Attachments

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



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Alexis Johnson
Larson and Associates, Inc.

Report Date: January 4, 2012

P. O. Box 50685
Midland, TX, 79710

Work Order: 11122235



Project Location: NM
Project Name: Chevron Landfarm
Project Number: 6-0137

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
285109	Cell 17 (0-1')	soil	2011-12-22	10:57	2011-12-22
285110	Cell 18 (0-1')	soil	2011-12-22	10:47	2011-12-22
285111	Cell 19 (0-1')	soil	2011-12-22	10:35	2011-12-22
285112	Cell 20 (0-1')	soil	2011-12-22	10:20	2011-12-22
285113	Cell 21 (0-1')	soil	2011-12-22	11:12	2011-12-22
285114	Cell 25 (0-1')	soil	2011-12-22	11:43	2011-12-22
285115	Cell 26 (0-1')	soil	2011-12-22	11:27	2011-12-22

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

This report consists of a total of 31 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, flowing style.

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

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Case Narrative

Samples for project Chevron Landfarm were received by TraceAnalysis, Inc. on 2011-12-22 and assigned to work order 11122235. Samples for work order 11122235 were received intact 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	74219	2011-12-23 at 13:43	87404	2011-12-23 at 13:43
Chloride (IC)	E 300.0	74360	2012-01-03 at 17:46	87580	2012-01-04 at 10:38
TPH 418.1	E 418.1	74249	2011-12-27 at 11:00	87441	2011-12-27 at 11:06
TPH DRO - NEW	S 8015 D	74254	2011-12-27 at 12:44	87446	2011-12-27 at 12:44
TPH GRO	S 8015 D	74219	2011-12-23 at 13:43	87405	2011-12-23 at 13:43

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 11122235 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: 285109 - Cell 17 (0-1')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87404
Prep Batch: 74219

Analytical Method: S 8021B
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	Flag	Cert	RL				
			Result	Units	Dilution	RL	
Benzene	1	U	1	<0.200	mg/Kg	10	0.0200
Toluene		U	1	<0.200	mg/Kg	10	0.0200
Ethylbenzene		U	1	<0.200	mg/Kg	10	0.0200
Xylene		U	1	<0.200	mg/Kg	10	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.60	mg/Kg	10	2.00	80	70 - 130
4-Bromofluorobenzene (4-BFB)			1.83	mg/Kg	10	2.00	92	70 - 130

Sample: 285109 - Cell 17 (0-1')

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 87580
Prep Batch: 74360

Analytical Method: E 300.0
Date Analyzed: 2012-01-04
Sample Preparation: 2012-01-03

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1	12.2	mg/Kg	1	2.00

Sample: 285109 - Cell 17 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 87441
Prep Batch: 74249

Analytical Method: E 418.1
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			41.7	mg/Kg	1	10.0

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Sample: 285109 - Cell 17 (0-1')

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2011-12-27	Analyzed By:	kg
QC Batch:	87446	Sample Preparation:	2011-12-27	Prepared By:	kg
Prep Batch:	74254				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			91.8	mg/Kg	1	100	92	53.5 - 147.1

Sample: 285109 - Cell 17 (0-1')

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2011-12-23	Analyzed By:	ZLM
QC Batch:	87405	Sample Preparation:	2011-12-23	Prepared By:	ZLM
Prep Batch:	74219				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	2 U	1	<20.0	mg/Kg	10	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.86	mg/Kg	10	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)			2.18	mg/Kg	10	2.00	109	70 - 130

Sample: 285110 - Cell 18 (0-1')

Laboratory:	Lubbock	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2011-12-23	Analyzed By:	ZLM
QC Batch:	87404	Sample Preparation:	2011-12-23	Prepared By:	ZLM
Prep Batch:	74219				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	3 U	1	<0.100	mg/Kg	5	0.0200
Toluene	U	1	<0.100	mg/Kg	5	0.0200
Ethylbenzene	U	1	<0.100	mg/Kg	5	0.0200

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sample 285110 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Xylene	U	1	<0.100	mg/Kg	5	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Q _{sr}	Q _{sr}	1.38	mg/Kg	5	2.00	69	70 - 130
4-Bromofluorobenzene (4-BFB)			1.80	mg/Kg	5	2.00	90	70 - 130

Sample: 285110 - Cell 18 (0-1')

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	87580	Date Analyzed:	2012-01-04	Analyzed By:	RL
Prep Batch:	74360	Sample Preparation:	2012-01-03	Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1	11.5	mg/Kg	1	2.00

Sample: 285110 - Cell 18 (0-1')

Laboratory:	Lubbock				
Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	87441	Date Analyzed:	2011-12-27	Analyzed By:	DS
Prep Batch:	74249	Sample Preparation:	2011-12-27	Prepared By:	DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			139	mg/Kg	1	10.0

Sample: 285110 - Cell 18 (0-1')

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	87446	Date Analyzed:	2011-12-27	Analyzed By:	kg
Prep Batch:	74254	Sample Preparation:	2011-12-27	Prepared By:	kg

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		2	<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			94.7	mg/Kg	1	100	95	53.5 - 147.1

Sample: 285110 - Cell 18 (0-1')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 87405
Prep Batch: 74219

Analytical Method: S 8015 D
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	4	U	1	<10.0 mg/Kg	5	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.68	mg/Kg	5	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	5	2.00	107	70 - 130

Sample: 285111 - Cell 19 (0-1')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87404
Prep Batch: 74219

Analytical Method: S 8021B
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	5	U	1	<0.200 mg/Kg	10	0.0200
Toluene		U	1	<0.200 mg/Kg	10	0.0200
Ethylbenzene		U	1	<0.200 mg/Kg	10	0.0200
Xylene		U	1	<0.200 mg/Kg	10	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.68	mg/Kg	10	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.88	mg/Kg	10	2.00	94	70 - 130

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Sample: 285111 - Cell 19 (0-1')

Laboratory:	Lubbock	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2012-01-04	Analyzed By:	RL
QC Batch:	87580	Sample Preparation:	2012-01-03	Prepared By:	RL
Prep Batch:	74360				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1	19.1	mg/Kg	1	2.00

Sample: 285111 - Cell 19 (0-1')

Laboratory:	Lubbock	Analytical Method:	E 418.1	Prep Method:	N/A
Analysis:	TPH 418.1	Date Analyzed:	2011-12-27	Analyzed By:	DS
QC Batch:	87441	Sample Preparation:	2011-12-27	Prepared By:	DS
Prep Batch:	74249				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			111	mg/Kg	1	10.0

Sample: 285111 - Cell 19 (0-1')

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2011-12-27	Analyzed By:	kg
QC Batch:	87446	Sample Preparation:	2011-12-27	Prepared By:	kg
Prep Batch:	74254				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			99.6	mg/Kg	1	100	100	53.5 - 147.1

Sample: 285111 - Cell 19 (0-1')

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2011-12-23	Analyzed By:	ZLM
QC Batch:	87405	Sample Preparation:	2011-12-23	Prepared By:	ZLM
Prep Batch:	74219				

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			RL				
Parameter		Flag	Cert	Result	Units	Dilution	RL
GRO	6	U	1	<20.0	mg/Kg	10	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.07	mg/Kg	10	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			2.29	mg/Kg	10	2.00	114	70 - 130

Sample: 285112 - Cell 20 (0-1')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87404
Prep Batch: 74219

Analytical Method: S 8021B
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	Flag	Cert	RL				
			Result	Units	Dilution	RL	
Benzene	7	U	1	<0.100	mg/Kg	5	0.0200
Toluene		U	1	<0.100	mg/Kg	5	0.0200
Ethylbenzene		U	1	<0.100	mg/Kg	5	0.0200
Xylene		U	1	<0.100	mg/Kg	5	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.52	mg/Kg	5	2.00	76	70 - 130
4-Bromofluorobenzene (4-BFB)			1.89	mg/Kg	5	2.00	94	70 - 130

Sample: 285112 - Cell 20 (0-1')

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 87580
Prep Batch: 74360

Analytical Method: E 300.0
Date Analyzed: 2012-01-04
Sample Preparation: 2012-01-03

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1	45.9	mg/Kg	1	2.00

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Sample: 285112 - Cell 20 (0-1')

Laboratory:	Lubbock	Analytical Method:	E 418.1	Prep Method:	N/A
Analysis:	TPH 418.1	Date Analyzed:	2011-12-27	Analyzed By:	DS
QC Batch:	87441	Sample Preparation:	2011-12-27	Prepared By:	DS
Prep Batch:	74249				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			157	mg/Kg	1	10.0

Sample: 285112 - Cell 20 (0-1')

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2011-12-27	Analyzed By:	kg
QC Batch:	87446	Sample Preparation:	2011-12-27	Prepared By:	kg
Prep Batch:	74254				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			100	mg/Kg	1	100	100	53.5 - 147.1

Sample: 285112 - Cell 20 (0-1')

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2011-12-23	Analyzed By:	ZLM
QC Batch:	87405	Sample Preparation:	2011-12-23	Prepared By:	ZLM
Prep Batch:	74219				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	8 U	1	<10.0	mg/Kg	5	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	5	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			2.19	mg/Kg	5	2.00	110	70 - 130

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Sample: 285113 - Cell 21 (0-1')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87404
Prep Batch: 74219

Analytical Method: S 8021B
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	Flag	Cert	RL				
			Result	Units	Dilution	RL	
Benzene	9	U	1	<0.400	mg/Kg	20	0.0200
Toluene		U	1	<0.400	mg/Kg	20	0.0200
Ethylbenzene		U	1	<0.400	mg/Kg	20	0.0200
Xylene		U	1	<0.400	mg/Kg	20	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.71	mg/Kg	20	2.00	86	70 - 130
4-Bromofluorobenzene (4-BFB)			1.70	mg/Kg	20	2.00	85	70 - 130

Sample: 285113 - Cell 21 (0-1')

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 87580
Prep Batch: 74360

Analytical Method: E 300.0
Date Analyzed: 2012-01-04
Sample Preparation: 2012-01-03

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1	11.4	mg/Kg	1	2.00

Sample: 285113 - Cell 21 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 87441
Prep Batch: 74249

Analytical Method: E 418.1
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			253	mg/Kg	1	10.0

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Sample: 285113 - Cell 21 (0-1')

Laboratory:	Midland		
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D
QC Batch:	87446	Date Analyzed:	2011-12-27
Prep Batch:	74254	Sample Preparation:	2011-12-27
		Prep Method:	N/A
		Analyzed By:	kg
		Prepared By:	kg

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			99.5	mg/Kg	1	100	100	53.5 - 147.1

Sample: 285113 - Cell 21 (0-1')

Laboratory:	Lubbock		
Analysis:	TPH GRO	Analytical Method:	S 8015 D
QC Batch:	87405	Date Analyzed:	2011-12-23
Prep Batch:	74219	Sample Preparation:	2011-12-23
		Prep Method:	S 5035
		Analyzed By:	ZLM
		Prepared By:	ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	10	U	1	<40.0	mg/Kg	20
						2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.92	mg/Kg	20	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			2.05	mg/Kg	20	2.00	102	70 - 130

Sample: 285114 - Cell 25 (0-1')

Laboratory:	Lubbock		
Analysis:	BTEX	Analytical Method:	S 8021B
QC Batch:	87404	Date Analyzed:	2011-12-23
Prep Batch:	74219	Sample Preparation:	2011-12-23
		Prep Method:	S 5035
		Analyzed By:	ZLM
		Prepared By:	ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	11	U	1	<0.100	mg/Kg	5
Toluene		U	1	<0.100	mg/Kg	5
Ethylbenzene		U	1	<0.100	mg/Kg	5

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sample 285114 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Xylene	U	1	<0.100	mg/Kg	5	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.41	mg/Kg	5	2.00	70	70 - 130
4-Bromofluorobenzene (4-BFB)			1.83	mg/Kg	5	2.00	92	70 - 130

Sample: 285114 - Cell 25 (0-1')

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	87580	Date Analyzed:	2012-01-04	Analyzed By:	RL
Prep Batch:	74360	Sample Preparation:	2012-01-03	Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1	21.1	mg/Kg	1	2.00

Sample: 285114 - Cell 25 (0-1')

Laboratory:	Lubbock				
Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	87441	Date Analyzed:	2011-12-27	Analyzed By:	DS
Prep Batch:	74249	Sample Preparation:	2011-12-27	Prepared By:	DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			129	mg/Kg	1	10.0

Sample: 285114 - Cell 25 (0-1')

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	87446	Date Analyzed:	2011-12-27	Analyzed By:	kg
Prep Batch:	74254	Sample Preparation:	2011-12-27	Prepared By:	kg

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			98.4	mg/Kg	1	100	98	53.5 - 147.1

Sample: 285114 - Cell 25 (0-1')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 87405
Prep Batch: 74219

Analytical Method: S 8015 D
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	¹²	_U	₁ <10.0	mg/Kg	5	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.78	mg/Kg	5	2.00	89	70 - 130
4-Bromofluorobenzene (4-BFB)			2.09	mg/Kg	5	2.00	104	70 - 130

Sample: 285115 - Cell 26 (0-1')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87404
Prep Batch: 74219

Analytical Method: S 8021B
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	¹³	_U	₁ <0.400	mg/Kg	20	0.0200
Toluene		_U	₁ <0.400	mg/Kg	20	0.0200
Ethylbenzene		_U	₁ <0.400	mg/Kg	20	0.0200
Xylene		_U	₁ <0.400	mg/Kg	20	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.56	mg/Kg	20	2.00	78	70 - 130
4-Bromofluorobenzene (4-BFB)			1.78	mg/Kg	20	2.00	89	70 - 130

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Sample: 285115 - Cell 26 (0-1')

Laboratory:	Lubbock	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2012-01-04	Analyzed By:	RL
QC Batch:	87580	Sample Preparation:	2012-01-03	Prepared By:	RL
Prep Batch:	74360				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1	11.4	mg/Kg	1	2.00

Sample: 285115 - Cell 26 (0-1')

Laboratory:	Lubbock	Analytical Method:	E 418.1	Prep Method:	N/A
Analysis:	TPH 418.1	Date Analyzed:	2011-12-27	Analyzed By:	DS
QC Batch:	87441	Sample Preparation:	2011-12-27	Prepared By:	DS
Prep Batch:	74249				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			279	mg/Kg	1	10.0

Sample: 285115 - Cell 26 (0-1')

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2011-12-27	Analyzed By:	kg
QC Batch:	87446	Sample Preparation:	2011-12-27	Prepared By:	kg
Prep Batch:	74254				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			96.4	mg/Kg	1	100	96	53.5 - 147.1

Sample: 285115 - Cell 26 (0-1')

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2011-12-23	Analyzed By:	ZLM
QC Batch:	87405	Sample Preparation:	2011-12-23	Prepared By:	ZLM
Prep Batch:	74219				

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Parameter		Flag	Cert	RL Result	Units	Dilution	RL
GRO	14	U	1	<40.0	mg/Kg	20	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.84	mg/Kg	20	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			2.12	mg/Kg	20	2.00	106	70 - 130

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Method Blanks

Method Blank (1) QC Batch: 87404

QC Batch: 87404 Date Analyzed: 2011-12-23 Analyzed By: ZLM
Prep Batch: 74219 QC Preparation: 2011-12-23 Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.00335	mg/Kg	0.02
Toluene		1	<0.00471	mg/Kg	0.02
Ethylbenzene		1	<0.00440	mg/Kg	0.02
Xylene		1	<0.00557	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.63	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.67	mg/Kg	1	2.00	84	70 - 130

Method Blank (1) QC Batch: 87405

QC Batch: 87405 Date Analyzed: 2011-12-23 Analyzed By: ZLM
Prep Batch: 74219 QC Preparation: 2011-12-23 Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1	<0.446	mg/Kg	2

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			1.88	mg/Kg	1	2.00	94	70 - 130

Method Blank (1) QC Batch: 87441

QC Batch: 87441 Date Analyzed: 2011-12-27 Analyzed By: DS
Prep Batch: 74249 QC Preparation: 2011-12-27 Prepared By: DS

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Parameter	Flag	Cert	MDL Result	Units	RL
TRPHC			<4.79	mg/Kg	10

Method Blank (1) QC Batch: 87446

QC Batch: 87446 Date Analyzed: 2011-12-27 Analyzed By: kg
Prep Batch: 74254 QC Preparation: 2011-12-27 Prepared By: kg

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		2	<14.5	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			99.3	mg/Kg	1	100	99	52.7 - 133.8

Method Blank (1) QC Batch: 87580

QC Batch: 87580 Date Analyzed: 2012-01-04 Analyzed By: RL
Prep Batch: 74360 QC Preparation: 2012-01-03 Prepared By: RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		1	<0.909	mg/Kg	2

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 87404
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.89	mg/Kg	1	2.00	<0.00335	94	70 - 130
Toluene		1	1.84	mg/Kg	1	2.00	<0.00471	92	70 - 130
Ethylbenzene		1	1.87	mg/Kg	1	2.00	<0.00440	94	70 - 130
Xylene		1	5.58	mg/Kg	1	6.00	<0.00557	93	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	1.86	mg/Kg	1	2.00	<0.00335	93	70 - 130	2	20
Toluene		1	1.81	mg/Kg	1	2.00	<0.00471	90	70 - 130	2	20
Ethylbenzene		1	1.86	mg/Kg	1	2.00	<0.00440	93	70 - 130	1	20
Xylene		1	5.52	mg/Kg	1	6.00	<0.00557	92	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)	1.76	1.78	mg/Kg	1	2.00	88	89	70 - 130
4-Bromofluorobenzene (4-BFB)	1.78	1.80	mg/Kg	1	2.00	89	90	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 87405
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	18.0	mg/Kg	1	20.0	<0.446	90	70 - 130

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

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control spikes continued ...

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	18.1	mg/Kg	1	20.0	<0.446	90	70 - 130	1	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.94	1.88	mg/Kg	1	2.00	97	94	70 - 130
4-Bromofluorobenzene (4-BFB)	2.08	2.11	mg/Kg	1	2.00	104	106	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 87441
Prep Batch: 74249

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: DS
Prepared By: DS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			273	mg/Kg	1	250	<4.79	109	84.3 - 122

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC			270	mg/Kg	1	250	<4.79	108	84.3 - 122	1	

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

Laboratory Control Spike (LCS-1)

QC Batch: 87446
Prep Batch: 74254

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: kg
Prepared By: kg

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	222	mg/Kg	1	250	<14.5	89	64.5 - 146.9

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

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control spikes continued ...

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		2	227	mg/Kg	1	250	<14.5	91	64.5 - 146.9	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
n-Tricosane	110	109	mg/Kg	1	100	110	109	65.3 - 135.8

Laboratory Control Spike (LCS-1)

QC Batch: 87580
Prep Batch: 74360

Date Analyzed: 2012-01-04
QC Preparation: 2012-01-03

Analyzed By: RL
Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	252	mg/Kg	1	250	<0.909	101	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	252	mg/Kg	1	250	<0.909	101	90 - 110	0	20

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

Matrix Spike (MS-1) Spiked Sample: 285112

QC Batch: 87404
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.90	mg/Kg	5	2.00	<0.0168	95	70 - 130
Toluene		1	1.90	mg/Kg	5	2.00	<0.0236	95	70 - 130
Ethylbenzene		1	1.98	mg/Kg	5	2.00	<0.0220	99	70 - 130
Xylene		1	5.78	mg/Kg	5	6.00	<0.0278	96	70 - 130

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

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.88	mg/Kg	5	2.00	<0.0168	94	70 - 130	1	20
Toluene		1	1.86	mg/Kg	5	2.00	<0.0236	93	70 - 130	2	20
Ethylbenzene		1	1.96	mg/Kg	5	2.00	<0.0220	98	70 - 130	1	20
Xylene		1	5.74	mg/Kg	5	6.00	<0.0278	96	70 - 130	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.83	1.84	mg/Kg	5	2	92	92	70 - 130
4-Bromofluorobenzene (4-BFB)	1.94	1.88	mg/Kg	5	2	97	94	70 - 130

Matrix Spike (MS-1) Spiked Sample: 285112

QC Batch: 87405
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	15.2	mg/Kg	5	20.0	<2.23	76	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
GRO		1	15.7	mg/Kg	5	20.0	<2.23	78	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)	2.09	2.09	mg/Kg	5	2	104	104	70 - 130
4-Bromofluorobenzene (4-BFB)	2.31	2.34	mg/Kg	5	2	116	117	70 - 130

Matrix Spike (MS-1) Spiked Sample: 285115

QC Batch: 87441
Prep Batch: 74249

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: DS
Prepared By: DS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			503	mg/Kg	1	250	279	90	43 - 161

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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
TRPHC			493	mg/Kg	1	250	279	86	43 - 161	2	

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

Matrix Spike (MS-1) Spiked Sample: 285115

QC Batch: 87446
Prep Batch: 74254

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: kg
Prepared By: kg

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	195	mg/Kg	1	250	21.6	69	38.8 - 153.3

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
DRO		2	202	mg/Kg	1	250	21.6	72	38.8 - 153.3	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
n-Tricosane	98.9	94.4	mg/Kg	1	100	99	94	54.6 - 149.8

Matrix Spike (MS-1) Spiked Sample: 285115

QC Batch: 87580
Prep Batch: 74360

Date Analyzed: 2012-01-04
QC Preparation: 2012-01-03

Analyzed By: RL
Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	212	mg/Kg	1	208	11.4	96	90 - 110

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
Chloride		1	215	mg/Kg	1	208	11.4	98	90 - 110	1	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 87404

Date Analyzed: 2011-12-23

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/Kg	0.100	0.0931	93	80 - 120	2011-12-23
Toluene		1	mg/Kg	0.100	0.0913	91	80 - 120	2011-12-23
Ethylbenzene		1	mg/Kg	0.100	0.0936	94	80 - 120	2011-12-23
Xylene		1	mg/Kg	0.300	0.279	93	80 - 120	2011-12-23

Standard (CCV-2)

QC Batch: 87404

Date Analyzed: 2011-12-23

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/Kg	0.100	0.0945	94	80 - 120	2011-12-23
Toluene		1	mg/Kg	0.100	0.0921	92	80 - 120	2011-12-23
Ethylbenzene		1	mg/Kg	0.100	0.0930	93	80 - 120	2011-12-23
Xylene		1	mg/Kg	0.300	0.276	92	80 - 120	2011-12-23

Standard (CCV-3)

QC Batch: 87404

Date Analyzed: 2011-12-23

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/Kg	0.100	0.0919	92	80 - 120	2011-12-23
Toluene		1	mg/Kg	0.100	0.0895	90	80 - 120	2011-12-23
Ethylbenzene		1	mg/Kg	0.100	0.0901	90	80 - 120	2011-12-23
Xylene		1	mg/Kg	0.300	0.268	89	80 - 120	2011-12-23

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Standard (CCV-1)

QC Batch: 87405 Date Analyzed: 2011-12-23 Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.880	88	80 - 120	2011-12-23

Standard (CCV-2)

QC Batch: 87405 Date Analyzed: 2011-12-23 Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.867	87	80 - 120	2011-12-23

Standard (CCV-3)

QC Batch: 87405 Date Analyzed: 2011-12-23 Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.848	85	80 - 120	2011-12-23

Standard (CCV-2)

QC Batch: 87441 Date Analyzed: 2011-12-27 Analyzed By: DS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	111	111	80 - 120	2011-12-27

Standard (CCV-3)

QC Batch: 87441 Date Analyzed: 2011-12-27 Analyzed By: DS

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	105	105	80 - 120	2011-12-27

Standard (CCV-4)

QC Batch: 87441 Date Analyzed: 2011-12-27 Analyzed By: DS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	98.8	99	80 - 120	2011-12-27

Standard (CCV-2)

QC Batch: 87446 Date Analyzed: 2011-12-27 Analyzed By: kg

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	214	86	80 - 120	2011-12-27

Standard (CCV-3)

QC Batch: 87446 Date Analyzed: 2011-12-27 Analyzed By: kg

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	217	87	80 - 120	2011-12-27

Standard (CCV-4)

QC Batch: 87446 Date Analyzed: 2011-12-27 Analyzed By: kg

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	211	84	80 - 120	2011-12-27

Standard (CCV-1)

QC Batch: 87580

Date Analyzed: 2012-01-04

Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	25.0	24.9	100	90 - 110	2012-01-04

Standard (CCV-2)

QC Batch: 87580

Date Analyzed: 2012-01-04

Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	25.0	24.8	99	90 - 110	2012-01-04

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
2	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 than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

- 1 Sample dilution due to surfactants.
- 2 Sample dilution due to surfactants.
- 3 Sample dilution due to surfactants.

- 4 Sample dilution due to surfactants.
- 5 Sample dilution due to surfactants.
- 6 Sample dilution due to surfactants.
- 7 Sample dilution due to surfactants.
- 8 Sample dilution due to surfactants.
- 9 Sample dilution due to surfactants.
- 10 Sample dilution due to surfactants.
- 11 Sample dilution due to surfactants.
- 12 Sample dilution due to surfactants.
- 13 Sample dilution due to surfactants.
- 14 Sample dilution due to surfactants.

Attachments

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



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Alexis Johnson
Larson and Associates, Inc.

Report Date: January 12, 2012

P. O. Box 50685
Midland, TX, 79710

Work Order: 11122233



Project Location: NM
Project Name: Chevron Landfarm
Project Number: 6-0137

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
285101	Cell 17 (5-6')	soil	2011-12-22	11:00	2011-12-22
285102	Cell 18 (5-6')	soil	2011-12-22	10:53	2011-12-22
285103	Cell 19 (5-6')	soil	2011-12-22	10:40	2011-12-22
285104	Cell 20 (5-6')	soil	2011-12-22	10:25	2011-12-22
285105	Cell 21 (5-6')	soil	2011-12-22	11:15	2011-12-22
285106	Cell 25 (5-6')	soil	2011-12-22	11:45	2011-12-22
285107	Cell 26 (5-6')	soil	2011-12-22	11:30	2011-12-22

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

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

Notes:

For inorganic analyses, the term MQL should actually read PQL.

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

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Case Narrative

Samples for project Chevron Landfarm were received by TraceAnalysis, Inc. on 2011-12-22 and assigned to work order 11122233. Samples for work order 11122233 were received intact 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
Ag, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53
As, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53
Ba, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53
BTEX	S 8021B	74219	2011-12-23 at 13:43	87404	2011-12-23 at 13:43
Cd, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53
Chloride (IC)	E 300.0	74359	2012-01-03 at 17:44	87578	2012-01-04 at 10:29
Chloride (IC)	E 300.0	74360	2012-01-03 at 17:46	87580	2012-01-04 at 10:38
Cr, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53
Cu, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53
Fe, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53
Hg, Total	S 7471 B	74244	2011-12-27 at 10:56	87432	2011-12-27 at 13:27
Hg, Total	S 7471 B	74349	2012-01-03 at 12:18	87559	2012-01-03 at 13:37
Pb, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53
Se, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53
TPH 418.1	E 418.1	74249	2011-12-27 at 11:00	87441	2011-12-27 at 11:06
TPH DRO - NEW	S 8015 D	74254	2011-12-27 at 12:44	87446	2011-12-27 at 12:44
TPH GRO	S 8015 D	74219	2011-12-23 at 13:43	87405	2011-12-23 at 13:43
Zn, Total	S 6010C	74242	2011-12-27 at 10:17	87438	2011-12-27 at 14:53

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 11122233 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: 285101 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87404
Prep Batch: 74219

Analytical Method: S 8021B
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.00335	<0.0200	<0.00335	mg/Kg	1	0.00335	0.02	0.00335
Toluene	u	1	<0.00471	<0.0200	<0.00471	mg/Kg	1	0.00471	0.02	0.00471
Ethylbenzene	u	1	<0.00440	<0.0200	<0.00440	mg/Kg	1	0.00440	0.02	0.0044
Xylene	u	1	<0.00557	<0.0200	<0.00557	mg/Kg	1	0.00557	0.02	0.00557

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.26	mg/Kg	1	2.00	113	70 - 130

Sample: 285101 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 87578
Prep Batch: 74359

Analytical Method: E 300.0
Date Analyzed: 2012-01-04
Sample Preparation: 2012-01-03

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	20.4	20.4	<0.909	mg/Kg	1	0.909	2	0.909

Sample: 285101 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: Cu, Total
QC Batch: 87438
Prep Batch: 74242

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	2.14	2.14	<0.0620	mg/Kg	1	0.0620	0.5	0.062

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Sample: 285101 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: Fe, Total Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 87438 Date Analyzed: 2011-12-27 Analyzed By: RR
Prep Batch: 74242 Sample Preparation: 2011-12-27 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	3100	3100	<2.31	mg/Kg	10	2.31	0.5	0.231

Sample: 285101 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
QC Batch: 87432 Date Analyzed: 2011-12-27 Analyzed By: TP
Prep Batch: 74244 Sample Preparation: 2011-12-27 Prepared By: TP
Laboratory: Lubbock
Analysis: Total 8 Metals Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 87438 Date Analyzed: 2011-12-27 Analyzed By: RR
Prep Batch: 74242 Sample Preparation: 2011-12-27 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver		1	2.85	2.85	<0.0369	mg/Kg	1	0.0369	0.5	0.0369
Total Arsenic		1	5.05	5.05	<0.274	mg/Kg	1	0.274	2	0.274
Total Barium		1	252	252	<0.228	mg/Kg	1	0.228	1	0.228
Total Cadmium	U	1	<0.0558	<0.500	<0.0558	mg/Kg	1	0.0558	0.5	0.0558
Total Chromium		1	3.01	3.01	<0.134	mg/Kg	1	0.134	0.5	0.134
Total Mercury	J	1	0.00568	<0.0250	<0.00198	mg/Kg	1	0.00198	0.025	0.00198
Total Lead	U	1	<0.196	<1.00	<0.196	mg/Kg	1	0.196	1	0.196
Total Selenium	U	1	<0.212	<2.00	<0.212	mg/Kg	1	0.212	2	0.212

Sample: 285101 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 87441 Date Analyzed: 2011-12-27 Analyzed By: DS
Prep Batch: 74249 Sample Preparation: 2011-12-27 Prepared By: DS

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	U		<4.79	<10.0	<4.79	mg/Kg	1	4.79	10	4.79

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Sample: 285101 - Cell 17 (5-6')

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 87446

Prep Batch: 74254

Analytical Method: S 8015 D

Date Analyzed: 2011-12-27

Sample Preparation: 2011-12-27

Prep Method: N/A

Analyzed By: kg

Prepared By: kg

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	2	<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			100	mg/Kg	1	100	100	53.5 - 147.1

Sample: 285101 - Cell 17 (5-6')

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 87405

Prep Batch: 74219

Analytical Method: S 8015 D

Date Analyzed: 2011-12-23

Sample Preparation: 2011-12-23

Prep Method: S 5035

Analyzed By: ZLM

Prepared By: ZLM

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	1	<0.446	<2.00	<0.446	mg/Kg	1	0.446	2	0.446

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.42	mg/Kg	1	2.00	121	70 - 130
4-Bromofluorobenzene (4-BFB)			2.58	mg/Kg	1	2.00	129	70 - 130

Sample: 285101 - Cell 17 (5-6')

Laboratory: Lubbock

Analysis: Zn, Total

QC Batch: 87438

Prep Batch: 74242

Analytical Method: S 6010C

Date Analyzed: 2011-12-27

Sample Preparation: 2011-12-27

Prep Method: S 3050B

Analyzed By: RR

Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	10.7	10.7	<0.0705	mg/Kg	1	0.0705	1	0.0705

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Sample: 285102 - Cell 18 (5-6')

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 87404

Prep Batch: 74219

Analytical Method: S 8021B

Date Analyzed: 2011-12-23

Sample Preparation: 2011-12-23

Prep Method: S 5035

Analyzed By: ZLM

Prepared By: ZLM

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.00335	<0.0200	<0.00335	mg/Kg	1	0.00335	0.02	0.00335
Toluene	u	1	<0.00471	<0.0200	<0.00471	mg/Kg	1	0.00471	0.02	0.00471
Ethylbenzene	u	1	<0.00440	<0.0200	<0.00440	mg/Kg	1	0.00440	0.02	0.0044
Xylene	u	1	<0.00557	<0.0200	<0.00557	mg/Kg	1	0.00557	0.02	0.00557

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.02	mg/Kg	1	2.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)			2.22	mg/Kg	1	2.00	111	70 - 130

Sample: 285102 - Cell 18 (5-6')

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 87578

Prep Batch: 74359

Analytical Method: E 300.0

Date Analyzed: 2012-01-04

Sample Preparation: 2012-01-03

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	62.3	62.3	<0.909	mg/Kg	1	0.909	2	0.909

Sample: 285102 - Cell 18 (5-6')

Laboratory: Lubbock

Analysis: Cu, Total

QC Batch: 87438

Prep Batch: 74242

Analytical Method: S 6010C

Date Analyzed: 2011-12-27

Sample Preparation: 2011-12-27

Prep Method: S 3050B

Analyzed By: RR

Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper	u	1	<0.0620	<0.500	<0.0620	mg/Kg	1	0.0620	0.5	0.062

Sample: 285102 - Cell 18 (5-6')

Laboratory: Lubbock

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Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	87438	Date Analyzed:	2011-12-27	Analyzed By:	RR
Prep Batch:	74242	Sample Preparation:	2011-12-27	Prepared By:	KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	1320	1320	<0.231	mg/Kg	1	0.231	0.5	0.231

Sample: 285102 - Cell 18 (5-6')

Laboratory:	Lubbock									
Analysis:	Total 8 Metals	Analytical Method:	S 7471 B	Prep Method:	N/A					
QC Batch:	87432	Date Analyzed:	2011-12-27	Analyzed By:	TP					
Prep Batch:	74244	Sample Preparation:	2011-12-27	Prepared By:	TP					
Laboratory:	Lubbock									
Analysis:	Total 8 Metals	Analytical Method:	S 6010C	Prep Method:	S 3050B					
QC Batch:	87438	Date Analyzed:	2011-12-27	Analyzed By:	RR					
Prep Batch:	74242	Sample Preparation:	2011-12-27	Prepared By:	KV					

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver		1	3.14	3.14	<0.0369	mg/Kg	1	0.0369	0.5	0.0369
Total Arsenic		1	6.33	6.33	<0.274	mg/Kg	1	0.274	2	0.274
Total Barium		1	287	287	<0.228	mg/Kg	1	0.228	1	0.228
Total Cadmium	u	1	<0.0558	<0.500	<0.0558	mg/Kg	1	0.0558	0.5	0.0558
Total Chromium		1	1.20	1.20	<0.134	mg/Kg	1	0.134	0.5	0.134
Total Mercury	j	1	0.00678	<0.0250	<0.00198	mg/Kg	1	0.00198	0.025	0.00198
Total Lead	u	1	<0.196	<1.00	<0.196	mg/Kg	1	0.196	1	0.196
Total Selenium	u	1	<0.212	<2.00	<0.212	mg/Kg	1	0.212	2	0.212

Sample: 285102 - Cell 18 (5-6')

Laboratory:	Lubbock									
Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A					
QC Batch:	87441	Date Analyzed:	2011-12-27	Analyzed By:	DS					
Prep Batch:	74249	Sample Preparation:	2011-12-27	Prepared By:	DS					

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	u		<4.79	<10.0	<4.79	mg/Kg	1	4.79	10	4.79

Sample: 285102 - Cell 18 (5-6')

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Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 87446
Prep Batch: 74254

Analytical Method: S 8015 D
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	2	<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			104	mg/Kg	1	100	104	53.5 - 147.1

Sample: 285102 - Cell 18 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 87405
Prep Batch: 74219

Analytical Method: S 8015 D
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	U	1	<0.446	<2.00	<0.446	mg/Kg	1	0.446	2	0.446

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.44	mg/Kg	1	2.00	122	70 - 130
4-Bromofluorobenzene (4-BFB)			2.54	mg/Kg	1	2.00	127	70 - 130

Sample: 285102 - Cell 18 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 87438
Prep Batch: 74242

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	5.80	5.80	<0.0705	mg/Kg	1	0.0705	1	0.0705

Sample: 285103 - Cell 19 (5-6')

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Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87404
Prep Batch: 74219

Analytical Method: S 8021B
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.00335	<0.0200	<0.00335	mg/Kg	1	0.00335	0.02	0.00335
Toluene	u	1	<0.00471	<0.0200	<0.00471	mg/Kg	1	0.00471	0.02	0.00471
Ethylbenzene	u	1	<0.00440	<0.0200	<0.00440	mg/Kg	1	0.00440	0.02	0.0044
Xylene	u	1	<0.00557	<0.0200	<0.00557	mg/Kg	1	0.00557	0.02	0.00557

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.86	mg/Kg	1	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)			1.95	mg/Kg	1	2.00	98	70 - 130

Sample: 285103 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 87578
Prep Batch: 74359

Analytical Method: E 300.0
Date Analyzed: 2012-01-04
Sample Preparation: 2012-01-03

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	31.5	31.5	<0.909	mg/Kg	1	0.909	2	0.909

Sample: 285103 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: Cu, Total
QC Batch: 87438
Prep Batch: 74242

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	3.68	3.68	<0.0620	mg/Kg	1	0.0620	0.5	0.062

Sample: 285103 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: Fe, Total

Analytical Method: S 6010C

Prep Method: S 3050B

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QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	1530	1530	<0.231	mg/Kg	1	0.231	0.5	0.231

Sample: 285103 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 87438
Prep Batch: 74242
Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 87559
Prep Batch: 74349

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Analytical Method: S 7471 B
Date Analyzed: 2012-01-03
Sample Preparation: 2012-01-03

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver		1	2.92	2.92	<0.0369	mg/Kg	1	0.0369	0.5	0.0369
Total Arsenic		1	5.71	5.71	<0.274	mg/Kg	1	0.274	2	0.274
Total Barium		1	293	293	<0.228	mg/Kg	1	0.228	1	0.228
Total Cadmium	U	1	<0.0558	<0.500	<0.0558	mg/Kg	1	0.0558	0.5	0.0558
Total Chromium		1	1.37	1.37	<0.134	mg/Kg	1	0.134	0.5	0.134
Total Mercury	U	1	<0.00198	<0.0250	<0.00198	mg/Kg	1	0.00198	0.025	0.00198
Total Lead	U	1	<0.196	<1.00	<0.196	mg/Kg	1	0.196	1	0.196
Total Selenium	U	1	<0.212	<2.00	<0.212	mg/Kg	1	0.212	2	0.212

Sample: 285103 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 87441
Prep Batch: 74249

Analytical Method: E 418.1
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	J		6.52	<10.0	<4.79	mg/Kg	1	4.79	10	4.79

Sample: 285103 - Cell 19 (5-6')

Laboratory: Midland

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Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 87446 Date Analyzed: 2011-12-27 Analyzed By: kg
Prep Batch: 74254 Sample Preparation: 2011-12-27 Prepared By: kg

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	2	<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			100	mg/Kg	1	100	100	53.5 - 147.1

Sample: 285103 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 87405 Date Analyzed: 2011-12-23 Analyzed By: ZLM
Prep Batch: 74219 Sample Preparation: 2011-12-23 Prepared By: ZLM

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	1	<0.446	<2.00	<0.446	mg/Kg	1	0.446	2	0.446

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.25	mg/Kg	1	2.00	112	70 - 130
4-Bromofluorobenzene (4-BFB)			2.20	mg/Kg	1	2.00	110	70 - 130

Sample: 285103 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 87438 Date Analyzed: 2011-12-27 Analyzed By: RR
Prep Batch: 74242 Sample Preparation: 2011-12-27 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	8.81	8.81	<0.0705	mg/Kg	1	0.0705	1	0.0705

Sample: 285104 - Cell 20 (5-6')

Laboratory: Lubbock

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Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	87404	Date Analyzed:	2011-12-23	Analyzed By:	ZLM
Prep Batch:	74219	Sample Preparation:	2011-12-23	Prepared By:	ZLM

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.00335	<0.0200	<0.00335	mg/Kg	1	0.00335	0.02	0.00335
Toluene	u	1	<0.00471	<0.0200	<0.00471	mg/Kg	1	0.00471	0.02	0.00471
Ethylbenzene	u	1	<0.00440	<0.0200	<0.00440	mg/Kg	1	0.00440	0.02	0.0044
Xylene	u	1	<0.00557	<0.0200	<0.00557	mg/Kg	1	0.00557	0.02	0.00557

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1	2.00	107	70 - 130

Sample: 285104 - Cell 20 (5-6')

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	87578	Date Analyzed:	2012-01-04	Analyzed By:	RL
Prep Batch:	74359	Sample Preparation:	2012-01-03	Prepared By:	RL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	77.9	77.9	<0.909	mg/Kg	1	0.909	2	0.909

Sample: 285104 - Cell 20 (5-6')

Laboratory:	Lubbock				
Analysis:	Cu, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	87438	Date Analyzed:	2011-12-27	Analyzed By:	RR
Prep Batch:	74242	Sample Preparation:	2011-12-27	Prepared By:	KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	4.08	4.08	<0.0620	mg/Kg	1	0.0620	0.5	0.062

Sample: 285104 - Cell 20 (5-6')

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	87438	Date Analyzed:	2011-12-27	Analyzed By:	RR

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Prep Batch: 74242

Sample Preparation: 2011-12-27

Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	1810	1810	<0.231	mg/Kg	1	0.231	0.5	0.231

Sample: 285104 - Cell 20 (5-6')

Laboratory: Lubbock

Analysis: Total 8 Metals

QC Batch: 87438

Prep Batch: 74242

Laboratory: Lubbock

Analysis: Total 8 Metals

QC Batch: 87559

Prep Batch: 74349

Analytical Method: S 6010C

Date Analyzed: 2011-12-27

Sample Preparation: 2011-12-27

Analytical Method: S 7471 B

Date Analyzed: 2012-01-03

Sample Preparation: 2012-01-03

Prep Method: S 3050B

Analyzed By: RR

Prepared By: KV

Prep Method: N/A

Analyzed By: TP

Prepared By: TP

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver		1	2.82	2.82	<0.0369	mg/Kg	1	0.0369	0.5	0.0369
Total Arsenic		1	5.73	5.73	<0.274	mg/Kg	1	0.274	2	0.274
Total Barium		1	323	323	<0.228	mg/Kg	1	0.228	1	0.228
Total Cadmium	u	1	<0.0558	<0.500	<0.0558	mg/Kg	1	0.0558	0.5	0.0558
Total Chromium		1	2.14	2.14	<0.134	mg/Kg	1	0.134	0.5	0.134
Total Mercury	j	1	0.00352	<0.0250	<0.00198	mg/Kg	1	0.00198	0.025	0.00198
Total Lead	u	1	<0.196	<1.00	<0.196	mg/Kg	1	0.196	1	0.196
Total Selenium	u	1	<0.212	<2.00	<0.212	mg/Kg	1	0.212	2	0.212

Sample: 285104 - Cell 20 (5-6')

Laboratory: Lubbock

Analysis: TPH 418.1

QC Batch: 87441

Prep Batch: 74249

Analytical Method: E 418.1

Date Analyzed: 2011-12-27

Sample Preparation: 2011-12-27

Prep Method: N/A

Analyzed By: DS

Prepared By: DS

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			10.8	10.8	<4.79	mg/Kg	1	4.79	10	4.79

Sample: 285104 - Cell 20 (5-6')

Laboratory: Midland

Analysis: TPH DRO - NEW

Analytical Method: S 8015 D

Prep Method: N/A

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QC Batch: 87446
Prep Batch: 74254

Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Analyzed By: kg
Prepared By: kg

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	2	<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			92.3	mg/Kg	1	100	92	53.5 - 147.1

Sample: 285104 - Cell 20 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 87405
Prep Batch: 74219

Analytical Method: S 8015 D
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	1	<0.446	<2.00	<0.446	mg/Kg	1	0.446	2	0.446

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.47	mg/Kg	1	2.00	124	70 - 130
4-Bromofluorobenzene (4-BFB)			2.51	mg/Kg	1	2.00	126	70 - 130

Sample: 285104 - Cell 20 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 87438
Prep Batch: 74242

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	10.1	10.1	<0.0705	mg/Kg	1	0.0705	1	0.0705

Sample: 285105 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: BTEX

Analytical Method: S 8021B

Prep Method: S 5035

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QC Batch: 87404
Prep Batch: 74219

Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.00335	<0.0200	<0.00335	mg/Kg	1	0.00335	0.02	0.00335
Toluene	u	1	<0.00471	<0.0200	<0.00471	mg/Kg	1	0.00471	0.02	0.00471
Ethylbenzene	u	1	<0.00440	<0.0200	<0.00440	mg/Kg	1	0.00440	0.02	0.0044
Xylene	u	1	<0.00557	<0.0200	<0.00557	mg/Kg	1	0.00557	0.02	0.00557

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.05	mg/Kg	1	2.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)			2.17	mg/Kg	1	2.00	108	70 - 130

Sample: 285105 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 87580
Prep Batch: 74360

Analytical Method: E 300.0
Date Analyzed: 2012-01-04
Sample Preparation: 2012-01-03

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	30.8	30.8	<0.909	mg/Kg	1	0.909	2	0.909

Sample: 285105 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: Cu, Total
QC Batch: 87438
Prep Batch: 74242

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	0.642	0.642	<0.0620	mg/Kg	1	0.0620	0.5	0.062

Sample: 285105 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: Fe, Total
QC Batch: 87438
Prep Batch: 74242

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	1300	1300	<0.231	mg/Kg	1	0.231	0.5	0.231

Sample: 285105 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 87438
Prep Batch: 74242
Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 87559
Prep Batch: 74349

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Analytical Method: S 7471 B
Date Analyzed: 2012-01-03
Sample Preparation: 2012-01-03

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Silver		1	1.99	1.99	<0.0369	mg/Kg	1	0.0369	0.5	0.0369
Total Arsenic		1	5.12	5.12	<0.274	mg/Kg	1	0.274	2	0.274
Total Barium		1	268	268	<0.228	mg/Kg	1	0.228	1	0.228
Total Cadmium	u	1	<0.0558	<0.500	<0.0558	mg/Kg	1	0.0558	0.5	0.0558
Total Chromium		1	1.41	1.41	<0.134	mg/Kg	1	0.134	0.5	0.134
Total Mercury	u	1	<0.00198	<0.0250	<0.00198	mg/Kg	1	0.00198	0.025	0.00198
Total Lead	u	1	<0.196	<1.00	<0.196	mg/Kg	1	0.196	1	0.196
Total Selenium	u	1	<0.212	<2.00	<0.212	mg/Kg	1	0.212	2	0.212

Sample: 285105 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 87441
Prep Batch: 74249

Analytical Method: E 418.1
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC			133	133	<4.79	mg/Kg	1	4.79	10	4.79

Sample: 285105 - Cell 21 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 87446
Prep Batch: 74254

Analytical Method: S 8015 D
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	J	2	25.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
n-Tricosane			94.9	mg/Kg	1	100	95	53.5 - 147.1		

Sample: 285105 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 87405
Prep Batch: 74219

Analytical Method: S 8015 D
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
GRO	u	1	<0.446	<2.00	<0.446	mg/Kg	1	0.446	2	0.446	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.49	mg/Kg	1	2.00	124	70 - 130
4-Bromofluorobenzene (4-BFB)						2.48	mg/Kg	1	2.00	124	70 - 130

Sample: 285105 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 87438
Prep Batch: 74242

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	7.30	7.30	<0.0705	mg/Kg	1	0.0705	1	0.0705

Sample: 285106 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87404
Prep Batch: 74219

Analytical Method: S 8021B
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.00335	<0.0200	<0.00335	mg/Kg	1	0.00335	0.02	0.00335
Toluene	u	1	<0.00471	<0.0200	<0.00471	mg/Kg	1	0.00471	0.02	0.00471
Ethylbenzene	u	1	<0.00440	<0.0200	<0.00440	mg/Kg	1	0.00440	0.02	0.0044
Xylene	u	1	<0.00557	<0.0200	<0.00557	mg/Kg	1	0.00557	0.02	0.00557

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.95	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 285106 - Cell 25 (5-6')

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 87580 Date Analyzed: 2012-01-04 Analyzed By: RL
 Prep Batch: 74360 Sample Preparation: 2012-01-03 Prepared By: RL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	28.6	28.6	<0.909	mg/Kg	1	0.909	2	0.909

Sample: 285106 - Cell 25 (5-6')

Laboratory: Lubbock
 Analysis: Cu, Total Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 87438 Date Analyzed: 2011-12-27 Analyzed By: RR
 Prep Batch: 74242 Sample Preparation: 2011-12-27 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper	u	1	<0.0620	<0.500	<0.0620	mg/Kg	1	0.0620	0.5	0.062

Sample: 285106 - Cell 25 (5-6')

Laboratory: Lubbock
 Analysis: Fe, Total Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 87438 Date Analyzed: 2011-12-27 Analyzed By: RR
 Prep Batch: 74242 Sample Preparation: 2011-12-27 Prepared By: KV

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	1790	1790	<0.231	mg/Kg	1	0.231	0.5	0.231

Sample: 285106 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 87438
Prep Batch: 74242
Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 87559
Prep Batch: 74349

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Analytical Method: S 7471 B
Date Analyzed: 2012-01-03
Sample Preparation: 2012-01-03

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver		1	2.52	2.52	<0.0369	mg/Kg	1	0.0369	0.5	0.0369
Total Arsenic		1	5.94	5.94	<0.274	mg/Kg	1	0.274	2	0.274
Total Barium		1	290	290	<0.228	mg/Kg	1	0.228	1	0.228
Total Cadmium	u	1	<0.0558	<0.500	<0.0558	mg/Kg	1	0.0558	0.5	0.0558
Total Chromium		1	1.69	1.69	<0.134	mg/Kg	1	0.134	0.5	0.134
Total Mercury	u	1	<0.00198	<0.0250	<0.00198	mg/Kg	1	0.00198	0.025	0.00198
Total Lead	u	1	<0.196	<1.00	<0.196	mg/Kg	1	0.196	1	0.196
Total Selenium	u	1	<0.212	<2.00	<0.212	mg/Kg	1	0.212	2	0.212

Sample: 285106 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 87441
Prep Batch: 74249

Analytical Method: E 418.1
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	u		<4.79	<10.0	<4.79	mg/Kg	1	4.79	10	4.79

Sample: 285106 - Cell 25 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 87446
Prep Batch: 74254

Analytical Method: S 8015 D
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	2	<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
n-Tricosane			93.0	mg/Kg	1	100	93	53.5 - 147.1		

Sample: 285106 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 87405
Prep Batch: 74219

Analytical Method: S 8015 D
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
GRO	u	1	<0.446	<2.00	<0.446	mg/Kg	1	0.446	2	0.446	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.37	mg/Kg	1	2.00	118	70 - 130
4-Bromofluorobenzene (4-BFB)						2.33	mg/Kg	1	2.00	116	70 - 130

Sample: 285106 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 87438
Prep Batch: 74242

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	6.59	6.59	<0.0705	mg/Kg	1	0.0705	1	0.0705

Sample: 285107 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 87404
Prep Batch: 74219

Analytical Method: S 8021B
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.00335	<0.0200	<0.00335	mg/Kg	1	0.00335	0.02	0.00335
Toluene	u	1	<0.00471	<0.0200	<0.00471	mg/Kg	1	0.00471	0.02	0.00471
Ethylbenzene	u	1	<0.00440	<0.0200	<0.00440	mg/Kg	1	0.00440	0.02	0.0044
Xylene	u	1	<0.00557	<0.0200	<0.00557	mg/Kg	1	0.00557	0.02	0.00557

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			1.97	mg/Kg	1	2.00	98	70 - 130

Sample: 285107 - Cell 26 (5-6')

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 87580 Date Analyzed: 2012-01-04 Analyzed By: RL
 Prep Batch: 74360 Sample Preparation: 2012-01-03 Prepared By: RL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	22.7	22.7	<0.909	mg/Kg	1	0.909	2	0.909

Sample: 285107 - Cell 26 (5-6')

Laboratory: Lubbock
 Analysis: Cu, Total Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 87438 Date Analyzed: 2011-12-27 Analyzed By: RR
 Prep Batch: 74242 Sample Preparation: 2011-12-27 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	3.00	3.00	<0.0620	mg/Kg	1	0.0620	0.5	0.062

Sample: 285107 - Cell 26 (5-6')

Laboratory: Lubbock
 Analysis: Fe, Total Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 87438 Date Analyzed: 2011-12-27 Analyzed By: RR
 Prep Batch: 74242 Sample Preparation: 2011-12-27 Prepared By: KV

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	2720	2720	<0.231	mg/Kg	1	0.231	0.5	0.231

Sample: 285107 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 87438
Prep Batch: 74242
Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 87559
Prep Batch: 74349

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Analytical Method: S 7471 B
Date Analyzed: 2012-01-03
Sample Preparation: 2012-01-03

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Silver		1	1.48	1.48	<0.0369	mg/Kg	1	0.0369	0.5	0.0369
Total Arsenic		1	4.92	4.92	<0.274	mg/Kg	1	0.274	2	0.274
Total Barium		1	194	194	<0.228	mg/Kg	1	0.228	1	0.228
Total Cadmium	u	1	<0.0558	<0.500	<0.0558	mg/Kg	1	0.0558	0.5	0.0558
Total Chromium		1	2.94	2.94	<0.134	mg/Kg	1	0.134	0.5	0.134
Total Mercury	u	1	<0.00198	<0.0250	<0.00198	mg/Kg	1	0.00198	0.025	0.00198
Total Lead	u	1	<0.196	<1.00	<0.196	mg/Kg	1	0.196	1	0.196
Total Selenium	u	1	<0.212	<2.00	<0.212	mg/Kg	1	0.212	2	0.212

Sample: 285107 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 87441
Prep Batch: 74249

Analytical Method: E 418.1
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC	J		9.74	<10.0	<4.79	mg/Kg	1	4.79	10	4.79

Sample: 285107 - Cell 26 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 87446
Prep Batch: 74254

Analytical Method: S 8015 D
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

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

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
DRO	u	2	<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5
Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
n-Tricosane			89.9	mg/Kg	1	100	90	53.5 - 147.1		

Sample: 285107 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 87405
Prep Batch: 74219

Analytical Method: S 8015 D
Date Analyzed: 2011-12-23
Sample Preparation: 2011-12-23

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

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
GRO	u	1	<0.446	<2.00	<0.446	mg/Kg	1	0.446	2	0.446	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.33	mg/Kg	1	2.00	116	70 - 130
4-Bromofluorobenzene (4-BFB)						2.24	mg/Kg	1	2.00	112	70 - 130

Sample: 285107 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 87438
Prep Batch: 74242

Analytical Method: S 6010C
Date Analyzed: 2011-12-27
Sample Preparation: 2011-12-27

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	12.5	12.5	<0.0705	mg/Kg	1	0.0705	1	0.0705

Method Blanks

Method Blank (1)

QC Batch: 87404
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Parameter	F	C	Result	Units	Reporting Limits
Benzene		1	<0.00335	mg/Kg	0.00335
Toluene		1	<0.00471	mg/Kg	0.00471
Ethylbenzene		1	<0.00440	mg/Kg	0.0044
Xylene		1	<0.00557	mg/Kg	0.00557

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.63	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.67	mg/Kg	1	2.00	84	70 - 130

Method Blank (1)

QC Batch: 87405
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Parameter	F	C	Result	Units	Reporting Limits
GRO		1	<0.446	mg/Kg	0.446

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			1.88	mg/Kg	1	2.00	94	70 - 130

Method Blank (1)

QC Batch: 87432
Prep Batch: 74244

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: TP
Prepared By: TP

Parameter	F	C	Result	Units	Reporting Limits
Total Mercury		1	<0.00198	mg/Kg	0.00198

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Method Blank (1)

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Copper		1	<0.0620	mg/Kg	0.062

Method Blank (1)

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Iron		1	<0.231	mg/Kg	0.231

Method Blank (1)

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Zinc		1	<0.0705	mg/Kg	0.0705

Method Blank (1)

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Silver		1	<0.0369	mg/Kg	0.0369
Total Arsenic		1	<0.274	mg/Kg	0.274
Total Barium		1	<0.228	mg/Kg	0.228
Total Cadmium		1	<0.0558	mg/Kg	0.0558
Total Chromium		1	<0.134	mg/Kg	0.134
Total Lead		1	<0.196	mg/Kg	0.196
Total Selenium		1	<0.212	mg/Kg	0.212

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Method Blank (1)

QC Batch: 87441
Prep Batch: 74249

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: DS
Prepared By: DS

Parameter	F	C	Result	Units	Reporting Limits
TRPHC			<4.79	mg/Kg	4.79

Method Blank (1)

QC Batch: 87446
Prep Batch: 74254

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: kg
Prepared By: kg

Parameter	F	C	Result	Units	Reporting Limits
DRO		2	<14.5	mg/Kg	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			99.3	mg/Kg	1	100	99	52.7 - 133.8

Method Blank (1)

QC Batch: 87559
Prep Batch: 74349

Date Analyzed: 2012-01-03
QC Preparation: 2012-01-03

Analyzed By: TP
Prepared By: TP

Parameter	F	C	Result	Units	Reporting Limits
Total Mercury		1	<0.00198	mg/Kg	0.00198

Method Blank (1)

QC Batch: 87578
Prep Batch: 74359

Date Analyzed: 2012-01-04
QC Preparation: 2012-01-03

Analyzed By: RL
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.909	mg/Kg	0.909

Method Blank (1)

QC Batch: 87580
Prep Batch: 74360

Date Analyzed: 2012-01-04
QC Preparation: 2012-01-03

Analyzed By: RL
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.909	mg/Kg	0.909

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 87404
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.89	mg/Kg	1	2.00	<0.00335	94	70 - 130
Toluene		1	1.84	mg/Kg	1	2.00	<0.00471	92	70 - 130
Ethylbenzene		1	1.87	mg/Kg	1	2.00	<0.00440	94	70 - 130
Xylene		1	5.58	mg/Kg	1	6.00	<0.00557	93	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	1.86	mg/Kg	1	2.00	<0.00335	93	70 - 130	2	20
Toluene		1	1.81	mg/Kg	1	2.00	<0.00471	90	70 - 130	2	20
Ethylbenzene		1	1.86	mg/Kg	1	2.00	<0.00440	93	70 - 130	1	20
Xylene		1	5.52	mg/Kg	1	6.00	<0.00557	92	70 - 130	1	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.76	1.78	mg/Kg	1	2.00	88	89	70 - 130
4-Bromofluorobenzene (4-BFB)			1.78	1.80	mg/Kg	1	2.00	89	90	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 87405
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	18.0	mg/Kg	1	20.0	<0.446	90	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
GRO		1	18.1	mg/Kg	1	20.0	<0.446	90	70 - 130	1	20

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

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Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.94	1.88	mg/Kg	1	2.00	97	94	70 - 130
4-Bromofluorobenzene (4-BFB)			2.08	2.11	mg/Kg	1	2.00	104	106	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 87432
Prep Batch: 74244

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: TP
Prepared By: TP

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		1	0.254	mg/Kg	1	0.250	<0.00198	102	80 - 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
Total Mercury		1	0.256	mg/Kg	1	0.250	<0.00198	102	80 - 120	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper		1	13.2	mg/Kg	1	12.5	<0.0620	106	85 - 115

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
Total Copper		1	13.1	mg/Kg	1	12.5	<0.0620	105	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1	55.0	mg/Kg	1	50.0	<0.231	110	85 - 115

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
Total Iron		1	53.6	mg/Kg	1	50.0	<0.231	107	85 - 115	3	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		1	26.7	mg/Kg	1	25.0	<0.0705	107	85 - 115

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
Total Zinc		1	25.7	mg/Kg	1	25.0	<0.0705	103	85 - 115	4	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		1	12.4	mg/Kg	1	12.5	<0.0369	99	85 - 115
Total Arsenic		1	50.8	mg/Kg	1	50.0	<0.274	102	85 - 115
Total Barium		1	112	mg/Kg	1	100	<0.228	112	85 - 115
Total Cadmium		1	26.9	mg/Kg	1	25.0	<0.0558	108	85 - 115
Total Chromium		1	10.2	mg/Kg	1	10.0	<0.134	102	85 - 115
Total Lead		1	53.5	mg/Kg	1	50.0	<0.196	107	85 - 115
Total Selenium		1	48.5	mg/Kg	1	50.0	<0.212	97	85 - 115

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

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control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Silver		1	12.3	mg/Kg	1	12.5	<0.0369	98	85 - 115	1	20
Total Arsenic		1	50.0	mg/Kg	1	50.0	<0.274	100	85 - 115	2	20
Total Barium		1	109	mg/Kg	1	100	<0.228	109	85 - 115	3	20
Total Cadmium		1	26.5	mg/Kg	1	25.0	<0.0558	106	85 - 115	2	20
Total Chromium		1	10.1	mg/Kg	1	10.0	<0.134	101	85 - 115	1	20
Total Lead		1	52.7	mg/Kg	1	50.0	<0.196	105	85 - 115	2	20
Total Selenium		1	48.4	mg/Kg	1	50.0	<0.212	97	85 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 87441
Prep Batch: 74249

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: DS
Prepared By: DS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			273	mg/Kg	1	250	<4.79	109	84.3 - 122

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
TRPHC			270	mg/Kg	1	250	<4.79	108	84.3 - 122	1	

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

Laboratory Control Spike (LCS-1)

QC Batch: 87446
Prep Batch: 74254

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: kg
Prepared By: kg

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	222	mg/Kg	1	250	<14.5	89	64.5 - 146.9

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
DRO		2	227	mg/Kg	1	250	<14.5	91	64.5 - 146.9	2	20

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

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Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane			110	109	mg/Kg	1	100	110	109	65.3 - 135.8

Laboratory Control Spike (LCS-1)

QC Batch: 87559
Prep Batch: 74349

Date Analyzed: 2012-01-03
QC Preparation: 2012-01-03

Analyzed By: TP
Prepared By: TP

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		1	0.248	mg/Kg	1	0.250	<0.00198	99	80 - 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
Total Mercury		1	0.252	mg/Kg	1	0.250	<0.00198	101	80 - 120	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 87578
Prep Batch: 74359

Date Analyzed: 2012-01-04
QC Preparation: 2012-01-03

Analyzed By: RL
Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	244	mg/Kg	1	250	<0.909	98	90 - 110

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
Chloride		1	247	mg/Kg	1	250	<0.909	99	90 - 110	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 87580
Prep Batch: 74360

Date Analyzed: 2012-01-04
QC Preparation: 2012-01-03

Analyzed By: RL
Prepared By: RL

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	252	mg/Kg	1	250	<0.909	101	90 - 110

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
Chloride		1	252	mg/Kg	1	250	<0.909	101	90 - 110	0	20

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

Matrix Spike (MS-1) Spiked Sample: 285112

QC Batch: 87404
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.90	mg/Kg	5	2.00	<0.0168	95	70 - 130
Toluene		1	1.90	mg/Kg	5	2.00	<0.0236	95	70 - 130
Ethylbenzene		1	1.98	mg/Kg	5	2.00	<0.0220	99	70 - 130
Xylene		1	5.78	mg/Kg	5	6.00	<0.0278	96	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	1.88	mg/Kg	5	2.00	<0.0168	94	70 - 130	1	20
Toluene		1	1.86	mg/Kg	5	2.00	<0.0236	93	70 - 130	2	20
Ethylbenzene		1	1.96	mg/Kg	5	2.00	<0.0220	98	70 - 130	1	20
Xylene		1	5.74	mg/Kg	5	6.00	<0.0278	96	70 - 130	1	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.83	1.84	mg/Kg	5	2	92	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.94	1.88	mg/Kg	5	2	97	94	70 - 130

Matrix Spike (MS-1) Spiked Sample: 285112

QC Batch: 87405
Prep Batch: 74219

Date Analyzed: 2011-12-23
QC Preparation: 2011-12-23

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	15.2	mg/Kg	5	20.0	<2.23	76	70 - 130

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
GRO		1	15.7	mg/Kg	5	20.0	<2.23	78	70 - 130	3	20

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

Surrogate	F	C	MS	MSD	Units	Dil.	Spike Amount	MS	MSD	Rec. Limit
			Result	Result				Rec.	Rec.	
Trifluorotoluene (TFT)			2.09	2.09	mg/Kg	5	2	104	104	70 - 130
4-Bromofluorobenzene (4-BFB)			2.31	2.34	mg/Kg	5	2	116	117	70 - 130

Matrix Spike (MS-1) Spiked Sample: 285101

QC Batch: 87432
Prep Batch: 74244

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: TP
Prepared By: TP

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Mercury		1	0.267	mg/Kg	1	0.250	0.00568	104	80 - 120

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Mercury		1	0.259	mg/Kg	1	0.250	0.00568	101	80 - 120	3	20

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

Matrix Spike (MS-1) Spiked Sample: 285101

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Copper		1	14.7	mg/Kg	1	12.5	2.14	100	75 - 125

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Copper		1	14.5	mg/Kg	1	12.5	2.14	99	75 - 125	1	20

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

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Matrix Spike (MS-1) Spiked Sample: 285101

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1	3150	mg/Kg	1	50.0	3100	100	75 - 125

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
Total Iron		1	3150	mg/Kg	1	50.0	3100	100	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 285101

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		1	36.1	mg/Kg	1	25.0	10.7	102	75 - 125

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
Total Zinc		1	35.7	mg/Kg	1	25.0	10.7	100	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 285101

QC Batch: 87438
Prep Batch: 74242

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		1	14.3	mg/Kg	1	12.5	2.85	92	75 - 125
Total Arsenic		1	50.5	mg/Kg	1	50.0	5.05	91	75 - 125
Total Barium		1	360	mg/Kg	1	100	252	108	75 - 125
Total Cadmium		1	22.8	mg/Kg	1	25.0	<0.0558	91	75 - 125
Total Chromium		1	11.7	mg/Kg	1	10.0	3.01	87	75 - 125
Total Lead		1	45.1	mg/Kg	1	50.0	<0.196	90	75 - 125

continued ...

matrix spikes continued ...

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Selenium		1	45.9	mg/Kg	1	50.0	<0.212	92	75 - 125

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
Total Silver		1	14.2	mg/Kg	1	12.5	2.85	91	75 - 125	1	20
Total Arsenic		1	50.5	mg/Kg	1	50.0	5.05	91	75 - 125	0	20
Total Barium		1	350	mg/Kg	1	100	252	98	75 - 125	3	20
Total Cadmium		1	23.6	mg/Kg	1	25.0	<0.0558	94	75 - 125	3	20
Total Chromium		1	12.2	mg/Kg	1	10.0	3.01	92	75 - 125	4	20
Total Lead		1	46.2	mg/Kg	1	50.0	<0.196	92	75 - 125	2	20
Total Selenium		1	45.9	mg/Kg	1	50.0	<0.212	92	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 285115

QC Batch: 87441
Prep Batch: 74249

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: DS
Prepared By: DS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			503	mg/Kg	1	250	279	90	43 - 161

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
TRPHC			493	mg/Kg	1	250	279	86	43 - 161	2	

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

Matrix Spike (MS-1) Spiked Sample: 285115

QC Batch: 87446
Prep Batch: 74254

Date Analyzed: 2011-12-27
QC Preparation: 2011-12-27

Analyzed By: kg
Prepared By: kg

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	195	mg/Kg	1	250	21.6	69	38.8 - 153.3

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

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		2	202	mg/Kg	1	250	21.6	72	38.8 - 153.3	4	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane			98.9	94.4	mg/Kg	1	100	99	94	54.6 - 149.8

Matrix Spike (MS-1) Spiked Sample: 285103

QC Batch: 87559
Prep Batch: 74349

Date Analyzed: 2012-01-03
QC Preparation: 2012-01-03

Analyzed By: TP
Prepared By: TP

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		1	0.254	mg/Kg	1	0.250	<0.00198	102	80 - 120

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
Total Mercury		1	0.253	mg/Kg	1	0.250	<0.00198	101	80 - 120	0	20

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

Matrix Spike (MS-1) Spiked Sample: 285104

QC Batch: 87578
Prep Batch: 74359

Date Analyzed: 2012-01-04
QC Preparation: 2012-01-03

Analyzed By: RL
Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	281	mg/Kg	1	208	77.9	98	90 - 110

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
Chloride		1	280	mg/Kg	1	208	77.9	97	90 - 110	0	20

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

Matrix Spike (MS-1) Spiked Sample: 285115

QC Batch: 87580
Prep Batch: 74360

Date Analyzed: 2012-01-04
QC Preparation: 2012-01-03

Analyzed By: RL
Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	212	mg/Kg	1	208	11.4	96	90 - 110

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
Chloride		1	215	mg/Kg	1	208	11.4	98	90 - 110	1	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 87404

Date Analyzed: 2011-12-23

Analyzed By: ZLM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/Kg	0.100	0.0931	93	80 - 120	2011-12-23
Toluene		1	mg/Kg	0.100	0.0913	91	80 - 120	2011-12-23
Ethylbenzene		1	mg/Kg	0.100	0.0936	94	80 - 120	2011-12-23
Xylene		1	mg/Kg	0.300	0.279	93	80 - 120	2011-12-23

Standard (CCV-2)

QC Batch: 87404

Date Analyzed: 2011-12-23

Analyzed By: ZLM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/Kg	0.100	0.0945	94	80 - 120	2011-12-23
Toluene		1	mg/Kg	0.100	0.0921	92	80 - 120	2011-12-23
Ethylbenzene		1	mg/Kg	0.100	0.0930	93	80 - 120	2011-12-23
Xylene		1	mg/Kg	0.300	0.276	92	80 - 120	2011-12-23

Standard (CCV-1)

QC Batch: 87405

Date Analyzed: 2011-12-23

Analyzed By: ZLM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.880	88	80 - 120	2011-12-23

Standard (CCV-2)

QC Batch: 87405

Date Analyzed: 2011-12-23

Analyzed By: ZLM

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.867	87	80 - 120	2011-12-23

Standard (CCV-1)

QC Batch: 87432

Date Analyzed: 2011-12-27

Analyzed By: TP

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		1	mg/L	0.0100	0.0101	101	80 - 120	2011-12-27

Standard (CCV-2)

QC Batch: 87432

Date Analyzed: 2011-12-27

Analyzed By: TP

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		1	mg/L	0.0100	0.0102	102	80 - 120	2011-12-27

Standard (ICV-1)

QC Batch: 87438

Date Analyzed: 2011-12-27

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		1	mg/Kg	1.00	1.00	100	90 - 110	2011-12-27

Standard (ICV-1)

QC Batch: 87438

Date Analyzed: 2011-12-27

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1	mg/Kg	1.00	1.02	102	90 - 110	2011-12-27

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Standard (ICV-1)

QC Batch: 87438

Date Analyzed: 2011-12-27

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		1	mg/Kg	1.00	1.01	101	90 - 110	2011-12-27

Standard (ICV-1)

QC Batch: 87438

Date Analyzed: 2011-12-27

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		1	mg/Kg	0.125	0.125	100	90 - 110	2011-12-27
Total Arsenic		1	mg/Kg	1.00	1.02	102	90 - 110	2011-12-27
Total Barium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-12-27
Total Cadmium		1	mg/Kg	1.00	1.02	102	90 - 110	2011-12-27
Total Chromium		1	mg/Kg	1.00	1.02	102	90 - 110	2011-12-27
Total Lead		1	mg/Kg	1.00	1.03	103	90 - 110	2011-12-27
Total Selenium		1	mg/Kg	1.00	1.03	103	90 - 110	2011-12-27

Standard (CCV-1)

QC Batch: 87438

Date Analyzed: 2011-12-27

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		1	mg/Kg	1.00	1.01	101	90 - 110	2011-12-27

Standard (CCV-1)

QC Batch: 87438

Date Analyzed: 2011-12-27

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1	mg/Kg	1.00	1.06	106	90 - 110	2011-12-27

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Standard (CCV-1)

QC Batch: 87438

Date Analyzed: 2011-12-27

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		1	mg/Kg	1.00	1.04	104	90 - 110	2011-12-27

Standard (CCV-1)

QC Batch: 87438

Date Analyzed: 2011-12-27

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		1	mg/Kg	0.125	0.126	101	90 - 110	2011-12-27
Total Arsenic		1	mg/Kg	1.00	0.971	97	90 - 110	2011-12-27
Total Barium		1	mg/Kg	1.00	1.05	105	90 - 110	2011-12-27
Total Cadmium		1	mg/Kg	1.00	0.992	99	90 - 110	2011-12-27
Total Chromium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-12-27
Total Lead		1	mg/Kg	1.00	0.985	98	90 - 110	2011-12-27
Total Selenium		1	mg/Kg	1.00	0.974	97	90 - 110	2011-12-27

Standard (CCV-1)

QC Batch: 87441

Date Analyzed: 2011-12-27

Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	110	110	80 - 120	2011-12-27

Standard (CCV-2)

QC Batch: 87441

Date Analyzed: 2011-12-27

Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	111	111	80 - 120	2011-12-27

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Standard (CCV-3)

QC Batch: 87441

Date Analyzed: 2011-12-27

Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	105	105	80 - 120	2011-12-27

Standard (CCV-1)

QC Batch: 87446

Date Analyzed: 2011-12-27

Analyzed By: kg

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	207	83	80 - 120	2011-12-27

Standard (CCV-2)

QC Batch: 87446

Date Analyzed: 2011-12-27

Analyzed By: kg

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	214	86	80 - 120	2011-12-27

Standard (CCV-3)

QC Batch: 87446

Date Analyzed: 2011-12-27

Analyzed By: kg

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	217	87	80 - 120	2011-12-27

Standard (CCV-1)

QC Batch: 87559

Date Analyzed: 2012-01-03

Analyzed By: TP

Report Date: January 12, 2012
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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		1	mg/L	0.0100	0.0101	101	80 - 120	2012-01-03

Standard (CCV-2)

QC Batch: 87559

Date Analyzed: 2012-01-03

Analyzed By: TP

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		1	mg/L	0.0100	0.0100	100	80 - 120	2012-01-03

Standard (CCV-1)

QC Batch: 87578

Date Analyzed: 2012-01-04

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	25.0	24.1	96	90 - 110	2012-01-04

Standard (CCV-2)

QC Batch: 87578

Date Analyzed: 2012-01-04

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	25.0	24.9	100	90 - 110	2012-01-04

Standard (CCV-1)

QC Batch: 87580

Date Analyzed: 2012-01-04

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	25.0	24.9	100	90 - 110	2012-01-04

Standard (CCV-2)

QC Batch: 87580				Date Analyzed: 2012-01-04			Analyzed By: RL	
Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	25.0	24.8	99	90 - 110	2012-01-04

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
BTEX	S 8021B	soil	BTEX-2	Benzene	0.00800	Pass
BTEX	S 8021B	soil	BTEX-2	Toluene	0.00800	Pass
BTEX	S 8021B	soil	BTEX-2	Ethylbenzene	0.00800	Pass
BTEX	S 8021B	soil	BTEX-2	Xylene	0.00800	Pass
Chloride (IC)	E 300.0	soil	Dionex IC	Chloride	2.00	Pass
Hg, Total	S 7471 B	soil	Mercury Analyzer	Total Mercury	0.00500	Pass
TPH 418.1	E 418.1	soil	FT-IR	TRPHC	12.5	Pass
TPH GRO	S 8015 D	soil	BTEX-2	GRO	1.00	Pass

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
2	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 than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Alexis Johnson
Larson and Associates, Inc.

Report Date: July 8, 2011

P. O. Box 50685
Midland, TX, 79710

Work Order: 11062120



Project Location: NM
Project Name: Chevron Landfarm
Project Number: 6-0137

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
270076	Cell-17 (0-1')	soil	2011-06-21	08:35	2011-06-21
270077	Cell-18 (0-1')	soil	2011-06-21	08:55	2011-06-21
270078	Cell-19 (0-1')	soil	2011-06-21	08:50	2011-06-21
270079	Cell-20 (0-1')	soil	2011-06-21	09:00	2011-06-21
270080	Cell-21 (0-1')	soil	2011-06-21	10:00	2011-06-21
270081	Cell-25 (0-1')	soil	2011-06-21	10:25	2011-06-21
270082	Cell-26 (0-1')	soil	2011-06-21	10:12	2011-06-21

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

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink that reads "Michael Abel". The script is fluid and cursive, with the first name "Michael" and last name "Abel" clearly distinguishable.

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

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Case Narrative

Samples for project Chevron Landfarm were received by TraceAnalysis, Inc. on 2011-06-21 and assigned to work order 11062120. Samples for work order 11062120 were received intact at a temperature of 0.7 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	70032	2011-06-23 at 13:39	82460	2011-06-23 at 13:39
Chloride (IC)	E 300.0	70037	2011-06-23 at 10:29	82472	2011-06-23 at 17:31
Moisture Content	ASTM D 2216-05	70014	2011-06-22 at 14:17	82445	2011-06-23 at 14:18
TPH 418.1	E 418.1	70155	2011-06-28 at 12:00	82602	2011-06-28 at 12:00
TPH DRO - NEW	S 8015 D	70260	2011-06-30 at 14:00	82713	2011-06-30 at 16:30
TPH DRO - NEW	S 8015 D	70261	2011-06-30 at 14:00	82714	2011-06-30 at 16:30
TPH GRO	S 8015 D	70032	2011-06-23 at 13:39	82462	2011-06-23 at 13:39

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 11062120 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

Note: All sample results are reported on a dry weight basis.

Sample: 270076 - Cell-17 (0-1')

Laboratory: Midland

Analysis: BTEX

QC Batch: 82460

Prep Batch: 70032

Analytical Method: S 8021B

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-23

Prep Method: S 5035

Analyzed By: ME

Prepared By: ME

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0120	<0.0204	<0.0120	mg/Kg	1	0.0120	0.02	0.0118
Toluene	u	2	<0.00611	<0.0204	<0.00611	mg/Kg	1	0.00611	0.02	0.006
Ethylbenzene	u	2	<0.00865	<0.0204	<0.00865	mg/Kg	1	0.00865	0.02	0.0085
Xylene	u	2	<0.00624	<0.0204	<0.00624	mg/Kg	1	0.00624	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.43	mg/Kg	1	2.00	122	52.8 - 137
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1	2.00	107	38.4 - 157

Sample: 270076 - Cell-17 (0-1')

Laboratory: Midland

Analysis: Chloride (IC)

QC Batch: 82472

Prep Batch: 70037

Analytical Method: E 300.0

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-23

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		26.8	<51.0	<0.234	mg/Kg	5	0.234	10	0.046

Sample: 270076 - Cell-17 (0-1')

Laboratory: Midland

Analysis: Moisture Content

QC Batch: 82445

Prep Batch: 70014

Analytical Method: ASTM D 2216-05

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-22

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	1.79	%	1	0

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Sample: 270076 - Cell-17 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 82602
Prep Batch: 70155

Analytical Method: E 418.1
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			142	142	<4.88	mg/Kg	1	4.88	10	4.79

Sample: 270076 - Cell-17 (0-1')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82713
Prep Batch: 70260

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	J	1	23.6	<50.9	<17.4	mg/Kg	1	17.4	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			126	mg/Kg	1	100	126	70 - 130

Sample: 270076 - Cell-17 (0-1')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 82462
Prep Batch: 70032

Analytical Method: S 8015 D
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	U	2	<0.767	<2.04	<0.767	mg/Kg	1	0.767	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.95	mg/Kg	1	2.00	148	48.5 - 152
4-Bromofluorobenzene (4-BFB)			2.36	mg/Kg	1	2.00	118	42 - 159

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Sample: 270077 - Cell-18 (0-1')

Laboratory: Midland

Analysis: BTEX

QC Batch: 82460

Prep Batch: 70032

Analytical Method: S 8021B

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-23

Prep Method: S 5035

Analyzed By: ME

Prepared By: ME

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0119	<0.0202	<0.0119	mg/Kg	1	0.0119	0.02	0.0118
Toluene	u	2	<0.00607	<0.0202	<0.00607	mg/Kg	1	0.00607	0.02	0.006
Ethylbenzene	u	2	<0.00860	<0.0202	<0.00860	mg/Kg	1	0.00860	0.02	0.0085
Xylene	u	2	<0.00620	<0.0202	<0.00620	mg/Kg	1	0.00620	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.05	mg/Kg	1	2.00	102	52.8 - 137
4-Bromofluorobenzene (4-BFB)			1.78	mg/Kg	1	2.00	89	38.4 - 157

Sample: 270077 - Cell-18 (0-1')

Laboratory: Midland

Analysis: Chloride (IC)

QC Batch: 82472

Prep Batch: 70037

Analytical Method: E 300.0

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-23

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		11.9	<50.5	<0.233	mg/Kg	5	0.233	10	0.046

Sample: 270077 - Cell-18 (0-1')

Laboratory: Midland

Analysis: Moisture Content

QC Batch: 82445

Prep Batch: 70014

Analytical Method: ASTM D 2216-05

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-22

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	1.21	%	1	0

Sample: 270077 - Cell-18 (0-1')

Laboratory: Lubbock

Analysis: TPH 418.1

Analytical Method: E 418.1

Prep Method: N/A

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QC Batch: 82602
Prep Batch: 70155

Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Analyzed By: DS
Prepared By: DS

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			296	296	<4.85	mg/Kg	1	4.85	10	4.79

Sample: 270077 - Cell-18 (0-1')

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 82713

Prep Batch: 70260

Analytical Method: S 8015 D

Date Analyzed: 2011-06-30

Sample Preparation: 2011-06-30

Prep Method: N/A

Analyzed By: CM

Prepared By: CM

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1	<17.3	<50.6	<17.3	mg/Kg	1	17.3	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			121	mg/Kg	1	100	121	70 - 130

Sample: 270077 - Cell-18 (0-1')

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 82462

Prep Batch: 70032

Analytical Method: S 8015 D

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-23

Prep Method: S 5035

Analyzed By: ME

Prepared By: ME

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.762	<2.02	<0.762	mg/Kg	1	0.762	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.49	mg/Kg	1	2.00	124	48.5 - 152
4-Bromofluorobenzene (4-BFB)	j		1.98	mg/Kg	1	2.00	99	42 - 159

Sample: 270078 - Cell-19 (0-1')

Laboratory: Midland

Analysis: BTEX

Analytical Method: S 8021B

Prep Method: S 5035

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QC Batch: 82460
Prep Batch: 70032

Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0120	<0.0203	<0.0120	mg/Kg	1	0.0120	0.02	0.0118
Toluene	u	2	<0.00610	<0.0203	<0.00610	mg/Kg	1	0.00610	0.02	0.006
Ethylbenzene	u	2	<0.00864	<0.0203	<0.00864	mg/Kg	1	0.00864	0.02	0.0085
Xylene	u	2	<0.00623	<0.0203	<0.00623	mg/Kg	1	0.00623	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.28	mg/Kg	1	2.00	114	52.8 - 137
4-Bromofluorobenzene (4-BFB)			1.97	mg/Kg	1	2.00	98	38.4 - 157

Sample: 270078 - Cell-19 (0-1')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 82472
Prep Batch: 70037

Analytical Method: E 300.0
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		89.9	<510	<2.34	mg/Kg	50	2.34	10	0.046

Sample: 270078 - Cell-19 (0-1')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 82445
Prep Batch: 70014

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-22

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

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	1.64	%	1	0

Sample: 270078 - Cell-19 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 82602
Prep Batch: 70155

Analytical Method: E 418.1
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

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

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			332	332	<4.87	mg/Kg	1	4.87	10	4.79

Sample: 270078 - Cell-19 (0-1')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82713
Prep Batch: 70260

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	J	1	18.0	<50.8	<17.4	mg/Kg	1	17.4	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			121	mg/Kg	1	100	121	70 - 130

Sample: 270078 - Cell-19 (0-1')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 82462
Prep Batch: 70032

Analytical Method: S 8015 D
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	V	2	<0.766	<2.03	<0.766	mg/Kg	1	0.766	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.76	mg/Kg	1	2.00	138	48.5 - 152
4-Bromofluorobenzene (4-BFB)			2.18	mg/Kg	1	2.00	109	42 - 159

Sample: 270079 - Cell-20 (0-1')

Laboratory: Midland
Analysis: BTEX
QC Batch: 82460
Prep Batch: 70032

Analytical Method: S 8021B
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	2	<0.0120	<0.0204	<0.0120	mg/Kg	1	0.0120	0.02	0.0118
Toluene	U	2	<0.00612	<0.0204	<0.00612	mg/Kg	1	0.00612	0.02	0.006
Ethylbenzene	U	2	<0.00866	<0.0204	<0.00866	mg/Kg	1	0.00866	0.02	0.0085
Xylene	U	2	<0.00625	<0.0204	<0.00625	mg/Kg	1	0.00625	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.78	mg/Kg	1	2.00	89	52.8 - 137
4-Bromofluorobenzene (4-BFB)			1.59	mg/Kg	1	2.00	80	38.4 - 157

Sample: 270079 - Cell-20 (0-1')

Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 82472 Date Analyzed: 2011-06-23 Analyzed By: AR
Prep Batch: 70037 Sample Preparation: 2011-06-23 Prepared By: AR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		55.9	<102	<0.469	mg/Kg	10	0.469	10	0.046

Sample: 270079 - Cell-20 (0-1')

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 82445 Date Analyzed: 2011-06-23 Analyzed By: AR
Prep Batch: 70014 Sample Preparation: 2011-06-22 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	1.91	%	1	0

Sample: 270079 - Cell-20 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 82602 Date Analyzed: 2011-06-28 Analyzed By: DS
Prep Batch: 70155 Sample Preparation: 2011-06-28 Prepared By: DS

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sample 270079 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			84.8	84.8	<4.88	mg/Kg	1	4.88	10	4.79

Sample: 270079 - Cell-20 (0-1')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82713
Prep Batch: 70260

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1	<17.4	<51.0	<17.4	mg/Kg	1	17.4	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			119	mg/Kg	1	100	119	70 - 130

Sample: 270079 - Cell-20 (0-1')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 82462
Prep Batch: 70032

Analytical Method: S 8015 D
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.768	<2.04	<0.768	mg/Kg	1	0.768	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.18	mg/Kg	1	2.00	109	48.5 - 152
4-Bromofluorobenzene (4-BFB)	j		1.78	mg/Kg	1	2.00	89	42 - 159

Sample: 270080 - Cell-21 (0-1')

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Laboratory: Midland
Analysis: BTEX
QC Batch: 82460
Prep Batch: 70032

Analytical Method: S 8021B
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0121	<0.0204	<0.0121	mg/Kg	1	0.0121	0.02	0.0118
Toluene	u	2	<0.00613	<0.0204	<0.00613	mg/Kg	1	0.00613	0.02	0.006
Ethylbenzene	u	2	<0.00869	<0.0204	<0.00869	mg/Kg	1	0.00869	0.02	0.0085
Xylene	u	2	<0.00626	<0.0204	<0.00626	mg/Kg	1	0.00626	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.07	mg/Kg	1	2.00	104	52.8 - 137
4-Bromofluorobenzene (4-BFB)			1.81	mg/Kg	1	2.00	90	38.4 - 157

Sample: 270080 - Cell-21 (0-1')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 82472
Prep Batch: 70037

Analytical Method: E 300.0
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		8.99	<51.0	<0.235	mg/Kg	5	0.235	10	0.046

Sample: 270080 - Cell-21 (0-1')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 82445
Prep Batch: 70014

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-22

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

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	2.16	%	1	0

Sample: 270080 - Cell-21 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 82602

Analytical Method: E 418.1
Date Analyzed: 2011-06-28

Prep Method: N/A
Analyzed By: DS

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Prep Batch: 70155

Sample Preparation: 2011-06-28

Prepared By: DS

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			498	498	<4.90	mg/Kg	1	4.90	10	4.79

Sample: 270080 - Cell-21 (0-1')

Laboratory: Lubbock

Analysis: TPH DRO - NEW

QC Batch: 82713

Prep Batch: 70260

Analytical Method: S 8015 D

Date Analyzed: 2011-06-30

Sample Preparation: 2011-06-30

Prep Method: N/A

Analyzed By: CM

Prepared By: CM

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	J	1	45.0	<51.1	<17.5	mg/Kg	1	17.5	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			126	mg/Kg	1	100	126	70 - 130

Sample: 270080 - Cell-21 (0-1')

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 82462

Prep Batch: 70032

Analytical Method: S 8015 D

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-23

Prep Method: S 5035

Analyzed By: ME

Prepared By: ME

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	v	2	<0.770	<2.04	<0.770	mg/Kg	1	0.770	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.51	mg/Kg	1	2.00	126	48.5 - 152
4-Bromofluorobenzene (4-BFB)			2.00	mg/Kg	1	2.00	100	42 - 159

Sample: 270081 - Cell-25 (0-1')

Laboratory: Midland

Analysis: BTEX

QC Batch: 82460

Analytical Method: S 8021B

Date Analyzed: 2011-06-23

Prep Method: S 5035

Analyzed By: ME

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Prep Batch: 70032

Sample Preparation: 2011-06-23

Prepared By: ME

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0119	<0.0202	<0.0119	mg/Kg	1	0.0119	0.02	0.0118
Toluene	u	2	<0.00606	<0.0202	<0.00606	mg/Kg	1	0.00606	0.02	0.006
Ethylbenzene	u	2	<0.00859	<0.0202	<0.00859	mg/Kg	1	0.00859	0.02	0.0085
Xylene	u	2	<0.00620	<0.0202	<0.00620	mg/Kg	1	0.00620	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.10	mg/Kg	1	2.00	105	52.8 - 137
4-Bromofluorobenzene (4-BFB)			1.84	mg/Kg	1	2.00	92	38.4 - 157

Sample: 270081 - Cell-25 (0-1')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 82472
Prep Batch: 70037

Analytical Method: E 300.0
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		8.88	<50.5	<0.232	mg/Kg	5	0.232	10	0.046

Sample: 270081 - Cell-25 (0-1')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 82445
Prep Batch: 70014

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-22

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

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	1.05	%	1	0

Sample: 270081 - Cell-25 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 82602
Prep Batch: 70155

Analytical Method: E 418.1
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

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

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			96.5	96.5	<4.84	mg/Kg	1	4.84	10	4.79

Sample: 270081 - Cell-25 (0-1')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82713
Prep Batch: 70260

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1	<17.3	<50.5	<17.3	mg/Kg	1	17.3	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			119	mg/Kg	1	100	119	70 - 130

Sample: 270081 - Cell-25 (0-1')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 82462
Prep Batch: 70032

Analytical Method: S 8015 D
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	U	2	<0.761	<2.02	<0.761	mg/Kg	1	0.761	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.53	mg/Kg	1	2.00	126	48.5 - 152
4-Bromofluorobenzene (4-BFB)			2.05	mg/Kg	1	2.00	102	42 - 159

Sample: 270082 - Cell-26 (0-1')

Laboratory: Midland
Analysis: BTEX
QC Batch: 82460
Prep Batch: 70032

Analytical Method: S 8021B
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	2	<0.0120	<0.0203	<0.0120	mg/Kg	1	0.0120	0.02	0.0118
Toluene	U	2	<0.00609	<0.0203	<0.00609	mg/Kg	1	0.00609	0.02	0.006
Ethylbenzene	U	2	<0.00863	<0.0203	<0.00863	mg/Kg	1	0.00863	0.02	0.0085
Xylene	U	2	<0.00622	<0.0203	<0.00622	mg/Kg	1	0.00622	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.95	mg/Kg	1	2.00	98	52.8 - 137
4-Bromofluorobenzene (4-BFB)			1.70	mg/Kg	1	2.00	85	38.4 - 157

Sample: 270082 - Cell-26 (0-1')

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 82472 Date Analyzed: 2011-06-23 Analyzed By: AR
 Prep Batch: 70037 Sample Preparation: 2011-06-23 Prepared By: AR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		8.95	<51.0	<0.234	mg/Kg	5	0.234	10	0.046

Sample: 270082 - Cell-26 (0-1')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 82445 Date Analyzed: 2011-06-23 Analyzed By: AR
 Prep Batch: 70014 Sample Preparation: 2011-06-22 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	1.53	%	1	0

Sample: 270082 - Cell-26 (0-1')

Laboratory: Lubbock
 Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
 QC Batch: 82602 Date Analyzed: 2011-06-28 Analyzed By: DS
 Prep Batch: 70155 Sample Preparation: 2011-06-28 Prepared By: DS

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sample 270082 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			232	232	<4.86	mg/Kg	1	4.86	10	4.79

Sample: 270082 - Cell-26 (0-1')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82714
Prep Batch: 70261

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1	<17.4	<50.8	<17.4	mg/Kg	1	17.4	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			118	mg/Kg	1	100	118	70 - 130

Sample: 270082 - Cell-26 (0-1')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 82462
Prep Batch: 70032

Analytical Method: S 8015 D
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.765	<2.03	<0.765	mg/Kg	1	0.765	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.36	mg/Kg	1	2.00	118	48.5 - 152
4-Bromofluorobenzene (4-BFB)	j		1.90	mg/Kg	1	2.00	95	42 - 159

Method Blanks

Method Blank (1)

QC Batch: 82460
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Parameter	F	C	Result	Units	Reporting Limits
Benzene		2	<0.0118	mg/Kg	0.0118
Toluene		2	<0.00600	mg/Kg	0.006
Ethylbenzene		2	<0.00850	mg/Kg	0.0085
Xylene		2	<0.00613	mg/Kg	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.59	mg/Kg	1	2.00	80	66.6 - 122
4-Bromofluorobenzene (4-BFB)			1.33	mg/Kg	1	2.00	66	55.4 - 124

Method Blank (1)

QC Batch: 82462
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Parameter	F	C	Result	Units	Reporting Limits
GRO		2	<0.753	mg/Kg	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	1	2.00	92	67.6 - 150
4-Bromofluorobenzene (4-BFB)			1.44	mg/Kg	1	2.00	72	52.4 - 130

Method Blank (1)

QC Batch: 82472
Prep Batch: 70037

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: AR
Prepared By: AR

Parameter	F	C	Result	Units	Reporting Limits
Chloride			1.17	mg/Kg	0.046

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Method Blank (1)

QC Batch: 82602
Prep Batch: 70155

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: DS
Prepared By: DS

Parameter	F	C	Result	Units	Reporting Limits
TRPHC			<4.79	mg/Kg	4.79

Method Blank (1)

QC Batch: 82713
Prep Batch: 70260

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

Analyzed By: CM
Prepared By: CM

Parameter	F	C	Result	Units	Reporting Limits
DRO		1	<17.1	mg/Kg	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			117	mg/Kg	1	100	117	70 - 130

Method Blank (1)

QC Batch: 82714
Prep Batch: 70261

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

Analyzed By: CM
Prepared By: CM

Parameter	F	C	Result	Units	Reporting Limits
DRO		1	<17.1	mg/Kg	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			127	mg/Kg	1	100	127	70 - 130

Duplicate (1) Duplicated Sample: 270098

QC Batch: 82445
Prep Batch: 70014

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-22

Analyzed By: AR
Prepared By: AR

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		2	10.7	10.4	%	1	3	20

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 82460
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.17	mg/Kg	1	2.00	<0.0118	108	81.9 - 108
Toluene		2	2.32	mg/Kg	1	2.00	<0.00600	116	81.9 - 118
Ethylbenzene		2	1.92	mg/Kg	1	2.00	<0.00850	96	78.4 - 115
Xylene		2	5.75	mg/Kg	1	6.00	<0.00613	96	79.1 - 116

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	2.16	mg/Kg	1	2.00	<0.0118	108	81.9 - 108	0	20
Toluene		2	2.32	mg/Kg	1	2.00	<0.00600	116	81.9 - 118	0	20
Ethylbenzene		2	1.94	mg/Kg	1	2.00	<0.00850	97	78.4 - 115	1	20
Xylene		2	5.74	mg/Kg	1	6.00	<0.00613	96	79.1 - 116	0	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.88	1.86	mg/Kg	1	2.00	94	93	70.2 - 114
4-Bromofluorobenzene (4-BFB)			1.77	1.78	mg/Kg	1	2.00	88	89	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 82462
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	13.4	mg/Kg	1	20.0	<0.753	67	60.9 - 95.4

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
GRO		2	13.0	mg/Kg	1	20.0	<0.753	65	60.9 - 95.4	3	20

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

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Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.09	2.14	mg/Kg	1	2.00	104	107	61.9 - 142
4-Bromofluorobenzene (4-BFB)			1.82	1.87	mg/Kg	1	2.00	91	94	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 82472
Prep Batch: 70037

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			24.8	mg/Kg	1	25.0	<0.0460	99	90 - 110

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
Chloride			24.9	mg/Kg	1	25.0	<0.0460	100	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 82602
Prep Batch: 70155

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: DS
Prepared By: DS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			277	mg/Kg	1	250	<4.79	111	84.3 - 122

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
TRPHC			250	mg/Kg	1	250	<4.79	100	84.3 - 122	10	

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

Laboratory Control Spike (LCS-1)

QC Batch: 82713
Prep Batch: 70260

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

Analyzed By: CM
Prepared By: CM

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	314	mg/Kg	1	250	<17.1	126	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
DRO		1	306	mg/Kg	1	250	<17.1	122	70 - 130	3	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane			119	118	mg/Kg	1	100	119	118	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 82714
Prep Batch: 70261

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

Analyzed By: CM
Prepared By: CM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	308	mg/Kg	1	250	<17.1	123	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
DRO		1	314	mg/Kg	1	250	<17.1	126	70 - 130	2	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane			117	118	mg/Kg	1	100	117	118	70 - 130

Matrix Spike (MS-1) Spiked Sample: 270097

QC Batch: 82460
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	1.88	mg/Kg	1	2.00	<0.0118	94	80.5 - 112
Toluene		2	1.95	mg/Kg	1	2.00	<0.00600	98	82.4 - 113
Ethylbenzene		2	1.70	mg/Kg	1	2.00	<0.00850	85	83.9 - 114
Xylene		2	5.10	mg/Kg	1	6.00	<0.00613	85	84 - 114

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Benzene		2	2.04	mg/Kg	1	2.00	<0.0118	102	80.5 - 112	8	20
Toluene		2	2.14	mg/Kg	1	2.00	<0.00600	107	82.4 - 113	9	20
Ethylbenzene		2	1.88	mg/Kg	1	2.00	<0.00850	94	83.9 - 114	10	20
Xylene		2	5.57	mg/Kg	1	6.00	<0.00613	93	84 - 114	9	20

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

Surrogate	F	C	MS	MSD	Units	Dil.	Spike Amount	MS	MSD	Rec. Limit
			Result	Result				Rec.	Rec.	
Trifluorotoluene (TFT)			2.32	2.37	mg/Kg	1	2	116	118	41.3 - 117
4-Bromofluorobenzene (4-BFB)			2.08	2.12	mg/Kg	1	2	104	106	35.5 - 129

Matrix Spike (MS-1) Spiked Sample: 270096

QC Batch: 82462
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	MS	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result						
GRO		2	11.3	mg/Kg	1	20.0	<0.753	56	61.8 - 114

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
GRO		2	11.6	mg/Kg	1	20.0	<0.753	58	61.8 - 114	3	20

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

Surrogate	F	C	MS	MSD	Units	Dil.	Spike Amount	MS	MSD	Rec. Limit
			Result	Result				Rec.	Rec.	
Trifluorotoluene (TFT)			2.36	2.22	mg/Kg	1	2	118	111	50 - 162
4-Bromofluorobenzene (4-BFB)			2.06	1.94	mg/Kg	1	2	103	97	50 - 162

Matrix Spike (MS-1) Spiked Sample: 270082

QC Batch: 82472
Prep Batch: 70037

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: AR
Prepared By: AR

Param	F	C	MS	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result						
Chloride			131	mg/Kg	5	138	8.81	89	90 - 110

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

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			127	mg/Kg	5	138	8.81	86	90 - 110	3	20

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

Matrix Spike (MS-1) Spiked Sample: 270102

QC Batch: 82602
Prep Batch: 70155

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: DS
Prepared By: DS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			334	mg/Kg	1	250	48.5	114	43 - 161

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
TRPHC			330	mg/Kg	1	250	48.5	113	43 - 161	1	

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

Matrix Spike (MS-1) Spiked Sample: 270680

QC Batch: 82713
Prep Batch: 70260

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

Analyzed By: CM
Prepared By: CM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	530	mg/Kg	1	250	242	115	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
DRO		1	501	mg/Kg	1	250	242	104	70 - 130	6	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	Q _{sr}		151	145	mg/Kg	1	100	151	145	70 - 130

Report Date: July 8, 2011
6-0137

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Chevron Landfarm

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Matrix Spike (MS-1) Spiked Sample: 270102

QC Batch: 82714
Prep Batch: 70261

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

Analyzed By: CM
Prepared By: CM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	257	mg/Kg	1	250	<17.1	103	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
DRO		1	257	mg/Kg	1	250	<17.1	103	70 - 130	0	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane			117	117	mg/Kg	1	100	117	117	70 - 130

Calibration Standards

Standard (CCV-2)

QC Batch: 82460

Date Analyzed: 2011-06-23

Analyzed By: ME

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.106	106	80 - 120	2011-06-23
Toluene		2	mg/Kg	0.100	0.108	108	80 - 120	2011-06-23
Ethylbenzene		2	mg/Kg	0.100	0.0857	86	80 - 120	2011-06-23
Xylene		2	mg/Kg	0.300	0.256	85	80 - 120	2011-06-23

Standard (CCV-3)

QC Batch: 82460

Date Analyzed: 2011-06-23

Analyzed By: ME

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.101	101	80 - 120	2011-06-23
Toluene		2	mg/Kg	0.100	0.104	104	80 - 120	2011-06-23
Ethylbenzene		2	mg/Kg	0.100	0.0857	86	80 - 120	2011-06-23
Xylene		2	mg/Kg	0.300	0.255	85	80 - 120	2011-06-23

Standard (CCV-2)

QC Batch: 82462

Date Analyzed: 2011-06-23

Analyzed By: ME

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.821	82	80 - 120	2011-06-23

Standard (CCV-3)

QC Batch: 82462

Date Analyzed: 2011-06-23

Analyzed By: ME

Report Date: July 8, 2011
6-0137

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Chevron Landfarm

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.884	88	80 - 120	2011-06-23

Standard (ICV-1)

QC Batch: 82472

Date Analyzed: 2011-06-23

Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	25.0	100	90 - 110	2011-06-23

Standard (CCV-1)

QC Batch: 82472

Date Analyzed: 2011-06-23

Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	24.9	100	90 - 110	2011-06-23

Standard (CCV-1)

QC Batch: 82602

Date Analyzed: 2011-06-28

Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	105	105	80 - 120	2011-06-28

Standard (CCV-2)

QC Batch: 82602

Date Analyzed: 2011-06-28

Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	104	104	80 - 120	2011-06-28

Report Date: July 8, 2011
6-0137

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Chevron Landfarm

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Standard (CCV-2)

QC Batch: 82713 Date Analyzed: 2011-06-30 Analyzed By: CM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	297	119	80 - 120	2011-06-30

Standard (CCV-3)

QC Batch: 82713 Date Analyzed: 2011-06-30 Analyzed By: CM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	298	119	80 - 120	2011-06-30

Standard (CCV-1)

QC Batch: 82714 Date Analyzed: 2011-06-30 Analyzed By: CM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	301	120	80 - 120	2011-06-30

Standard (CCV-2)

QC Batch: 82714 Date Analyzed: 2011-06-30 Analyzed By: CM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	300	120	80 - 120	2011-06-30

Appendix

Laboratory Certifications

	Certifying C Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-11-TX	Lubbock
2	NELAP	T104704392-10-TX	Midland

Standard Flags

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

Attachments

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

LA arson & associates, Inc.
Environmental Consultants

A. Johnson

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

PAGE 1 OF 1

LAB WORK ORDER #: 11042120

PROJECT LOCATION OR NAME: Chevron hard Form

LAI PROJECT #: 6-0137

COLLECTOR: Don McInnis

[illegible]

~~Air tests - Midland~~

Appendix A

Laboratory Data Package Cover Page – Page 1 of 4

This data package is for Job No. 11062120 and laboratory batch no(s) all inclusive to that Job No and consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- ☐ R1 Field chain-of-custody documentation;
- ☐ R2 Sample identification cross-reference;
- ☐ R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- ☐ R4 Surrogate recovery data including:
 - a) calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- ☐ R5 Test reports/summary forms for blank samples;
- ☐ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- ☐ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- ☐ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- ☐ R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- ☐ R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in the laboratory review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program

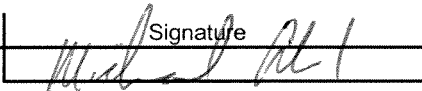
Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [] This laboratory meets an exception under 30 TAC §25.6 and was last inspection by [] TCEQ or [] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)

Michael Abel

Signature



Official Title (Print)

Production Manager

Date

07/08/2011

Laboratory Review Checklist: Reportable Data – Page 2 of 4

Laboratory Name: TraceAnalysis, Inc.		LRC Date: 7/08/11					
Project Name: Chevron Landfarm		Laboratory Job Number: 11062120					
Reviewer Name: Michael Abel		Prep Batch Number(s): All Inclusive for Order I.D.					
#1	A2	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
		Were all departures from standard conditions described in an exception report?	✓				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	✓				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		Were calculations checked by a peer or supervisor?	✓				
		Were all analyte identifications checked by a peer or supervisor?	✓				
		Were sample detection limits reported for all analytes not detected?	✓				
		Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?	✓				
		If required for the project, are TICs reported?			✓		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	✓				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		✓			
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	✓				
		Were blanks analyzed at the appropriate frequency?	✓				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		Were blank concentrations < MQL?	✓				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	✓				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		Were LCSs analyzed at required frequency?	✓				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	✓				
		Was the LCSD RPD within QC limits?	✓				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	✓				
		Were MS/MSD analyzed at the appropriate frequency?	✓				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	✓				
		Were analytical duplicates analyzed at the appropriate frequency?	✓				
		Were RPDs relative standard deviations within the laboratory QC limits?	✓				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	✓				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	✓				

Laboratory Review Checklist: Reportable Data – Page 2 of 4 Continued

Laboratory Name: TraceAnalysis, Inc.			LRC Date: 7/08/11				
Project Name: Chevron Landfarm			Laboratory Job Number: 11062120				
Reviewer Name: Michael Abel			Prep Batch Number(s): All Inclusive for Order I.D.				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	✓				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	✓				
1 Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3 NA = Not applicable; 4 NR = Not reviewed; 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Supporting Data – Page 3 of 4

Laboratory Name: TraceAnalysis, Inc.			LRC Date: 7/08/11				
Project Name: Chevron Landfarm			Laboratory Job Number: 11062120				
Reviewer Name: Michael Abel			Prep Batch Number(s): All Inclusive for Order I.D.				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		Were response factors and /or relative response factors for each analyte within QC limits?	✓				
		Were percent RSDs or correlation coefficient criteria met?	✓				
		Was the number of standards recommended in the method used for all analytes?	✓				
		Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		Are ICAL data available for all instruments used?	✓				
		Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	✓				
		Were percent differences for each analyte within the method required QC limits?	✓				
		Was the ICAL curve verified for each analyte?	✓				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?			✓		
		Were ion abundance data within the method-required QC limits?			✓		
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?			✓		
S5	O	Raw data (NELAC section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?			✓		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	✓				
		Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	✓				
		Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	✓				
1 Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3 NA = Not applicable; 4 NR = Not reviewed; 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

LRC Reviewer:
LRC Date: July 8, 2011

Project Name: Chevron Landfarm
Project Number: 6-0137

Work Order: 11062120

QC Batch: 82713		
MS	n-Tricosane	Qsr, Surrogate recovery outside of laboratory limits.
MSD	n-Tricosane	Qsr, Surrogate recovery outside of laboratory limits.



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Alexis Johnson
Larson and Associates, Inc.

Report Date: July 8, 2011

P. O. Box 50685
Midland, TX, 79710

Work Order: 11062122



Project Location: NM
Project Name: Chevron Landfarm
Project Number: 6-0137

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
270096	Cell 20 (5-6')	soil	2011-06-21	09:10	2011-06-21
270097	Cell 19 (5-6')	soil	2011-06-21	09:25	2011-06-21
270098	Cell 18 (5-6')	soil	2011-06-21	09:40	2011-06-21
270099	Cell 17 (5-6')	soil	2011-06-21	09:55	2011-06-21
270100	Cell 21 (5-6')	soil	2011-06-21	10:10	2011-06-21
270101	Cell 25 (5-6')	soil	2011-06-21	10:35	2011-06-21
270102	Cell 26 (5-6')	soil	2011-06-21	10:20	2011-06-21

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

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, flowing style.

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

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QC Batch 82602 - LCS (1)	39
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Case Narrative

Samples for project Chevron Landfarm were received by TraceAnalysis, Inc. on 2011-06-21 and assigned to work order 11062122. Samples for work order 11062122 were received intact at a temperature of 0.7 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Ag, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00
As, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00
Ba, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00
BTEX	S 8021B	70032	2011-06-23 at 13:39	82460	2011-06-23 at 13:39
BTEX	S 8021B	70036	2011-06-23 at 13:39	82470	2011-06-24 at 07:13
Cd, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00
Chloride (IC)	E 300.0	70038	2011-06-23 at 10:30	82473	2011-06-23 at 18:32
Cr, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00
Cu, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00
Fe, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00
Hg, Total	S 7471 B	70114	2011-06-27 at 14:18	82565	2011-06-27 at 16:36
Moisture Content	ASTM D 2216-05	70014	2011-06-22 at 14:17	82445	2011-06-23 at 14:18
Moisture Content	ASTM D 2216-05	70014	2011-06-22 at 14:17	82446	2011-06-23 at 14:18
Pb, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00
Se, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00
TPH 418.1	E 418.1	70155	2011-06-28 at 12:00	82602	2011-06-28 at 12:00
TPH DRO - NEW	S 8015 D	70261	2011-06-30 at 14:00	82714	2011-06-30 at 16:30
TPH GRO	S 8015 D	70032	2011-06-23 at 13:39	82462	2011-06-23 at 13:39
TPH GRO	S 8015 D	70036	2011-06-23 at 13:39	82471	2011-06-24 at 07:13
Zn, Total	S 6010C	70135	2011-06-28 at 09:21	82598	2011-06-28 at 14:00

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 11062122 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

Note: All sample results are reported on a dry weight basis.

Sample: 270096 - Cell 20 (5-6')

Laboratory: Midland

Analysis: BTEX

QC Batch: 82460

Prep Batch: 70032

Analytical Method: S 8021B

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-23

Prep Method: S 5035

Analyzed By: ME

Prepared By: ME

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0132	<0.0225	<0.0132	mg/Kg	1	0.0132	0.02	0.0118
Toluene	u	2	<0.00674	<0.0225	<0.00674	mg/Kg	1	0.00674	0.02	0.006
Ethylbenzene	u	2	<0.00955	<0.0225	<0.00955	mg/Kg	1	0.00955	0.02	0.0085
Xylene	u	2	<0.00689	<0.0225	<0.00689	mg/Kg	1	0.00689	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.08	mg/Kg	1	2.00	104	52.8 - 137
4-Bromofluorobenzene (4-BFB)			1.81	mg/Kg	1	2.00	90	38.4 - 157

Sample: 270096 - Cell 20 (5-6')

Laboratory: Midland

Analysis: Chloride (IC)

QC Batch: 82473

Prep Batch: 70038

Analytical Method: E 300.0

Date Analyzed: 2011-06-23

Sample Preparation: 2011-06-23

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		28.9	<56.0	<0.258	mg/Kg	5	0.258	10	0.046

Sample: 270096 - Cell 20 (5-6')

Laboratory: Lubbock

Analysis: Cu, Total

QC Batch: 82598

Prep Batch: 70135

Analytical Method: S 6010C

Date Analyzed: 2011-06-28

Sample Preparation: 2011-06-28

Prep Method: S 3050B

Analyzed By: RR

Prepared By: KV

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sample 270096 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	2.36	2.36	<0.0535	mg/Kg	1	0.0535	0.5	0.0476

Sample: 270096 - Cell 20 (5-6')

Laboratory: Lubbock
Analysis: Fe, Total
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	1680	1680	<0.767	mg/Kg	10	0.767	0.5	0.0683

Sample: 270096 - Cell 20 (5-6')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 82445
Prep Batch: 70014

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-22

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

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	11.0	%	1	0

Sample: 270096 - Cell 20 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 82565
Prep Batch: 70114

Analytical Method: S 7471 B
Date Analyzed: 2011-06-27
Sample Preparation: 2011-06-27

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

Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0747	<0.562	<0.0747	mg/Kg	1	0.0747	0.5	0.0665
Total Arsenic		1	5.29	5.29	<0.215	mg/Kg	1	0.215	2	0.191
Total Barium		1	254	254	<0.0183	mg/Kg	1	0.0183	1	0.0163
Total Cadmium	u	1	<0.0249	<0.562	<0.0249	mg/Kg	1	0.0249	0.5	0.0222
Total Chromium		1	2.31	2.31	<0.0536	mg/Kg	1	0.0536	0.5	0.0477
Total Mercury	j	1	0.0140	<0.0281	<0.00222	mg/Kg	1	0.00222	0.025	0.00198
Total Lead	u	1	<0.102	<1.12	<0.102	mg/Kg	1	0.102	1	0.0905
Total Selenium	u	1	<0.335	<2.25	<0.335	mg/Kg	1	0.335	2	0.298

Sample: 270096 - Cell 20 (5-6')

Laboratory: Lubbock
 Analysis: TPH 418.1
 QC Batch: 82602
 Prep Batch: 70155

Analytical Method: E 418.1
 Date Analyzed: 2011-06-28
 Sample Preparation: 2011-06-28

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	u		<5.38	<11.2	<5.38	mg/Kg	1	5.38	10	4.79

Sample: 270096 - Cell 20 (5-6')

Laboratory: Lubbock
 Analysis: TPH DRO - NEW
 QC Batch: 82714
 Prep Batch: 70261

Analytical Method: S 8015 D
 Date Analyzed: 2011-06-30
 Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1	<19.2	<56.2	<19.2	mg/Kg	1	19.2	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			118	mg/Kg	1	100	118	70 - 130

Sample: 270096 - Cell 20 (5-6')

Laboratory: Midland
 Analysis: TPH GRO
 QC Batch: 82462
 Prep Batch: 70032

Analytical Method: S 8015 D
 Date Analyzed: 2011-06-23
 Sample Preparation: 2011-06-23

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

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
GRO	u	2	<0.846	<2.25	<0.846	mg/Kg	1	0.846	2	0.753	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.52	mg/Kg	1	2.00	126	48.5 - 152
4-Bromofluorobenzene (4-BFB)						2.01	mg/Kg	1	2.00	100	42 - 159

Sample: 270096 - Cell 20 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	6.16	6.16	<0.116	mg/Kg	1	0.116	1	0.103

Sample: 270097 - Cell 19 (5-6')

Laboratory: Midland
Analysis: BTEX
QC Batch: 82460
Prep Batch: 70032

Analytical Method: S 8021B
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based	Based	Blank				(Unadjusted)	(Unadjusted)	
			Result	Result	Result						
Benzene	u	2	<0.0134	<0.0226	<0.0134	mg/Kg	1	0.0134	0.02	0.0118	
Toluene	u	2	<0.00680	<0.0226	<0.00680	mg/Kg	1	0.00680	0.02	0.006	
Ethylbenzene	u	2	<0.00963	<0.0226	<0.00963	mg/Kg	1	0.00963	0.02	0.0085	
Xylene	u	2	<0.00694	<0.0226	<0.00694	mg/Kg	1	0.00694	0.02	0.00613	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.03	mg/Kg	1	2.00	102	52.8 - 137
4-Bromofluorobenzene (4-BFB)						1.76	mg/Kg	1	2.00	88	38.4 - 157

Sample: 270097 - Cell 19 (5-6')

Laboratory: Midland

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Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	82473	Date Analyzed:	2011-06-23	Analyzed By:	AR
Prep Batch:	70038	Sample Preparation:	2011-06-23	Prepared By:	AR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		14.2	<56.5	<0.260	mg/Kg	5	0.260	10	0.046

Sample: 270097 - Cell 19 (5-6')

Laboratory:	Lubbock									
Analysis:	Cu, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B					
QC Batch:	82598	Date Analyzed:	2011-06-28	Analyzed By:	RR					
Prep Batch:	70135	Sample Preparation:	2011-06-28	Prepared By:	KV					

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	1.89	1.89	<0.0539	mg/Kg	1	0.0539	0.5	0.0476

Sample: 270097 - Cell 19 (5-6')

Laboratory:	Lubbock									
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B					
QC Batch:	82598	Date Analyzed:	2011-06-28	Analyzed By:	RR					
Prep Batch:	70135	Sample Preparation:	2011-06-28	Prepared By:	KV					

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	2490	2490	<0.773	mg/Kg	10	0.773	0.5	0.0683

Sample: 270097 - Cell 19 (5-6')

Laboratory:	Midland									
Analysis:	Moisture Content	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A					
QC Batch:	82445	Date Analyzed:	2011-06-23	Analyzed By:	AR					
Prep Batch:	70014	Sample Preparation:	2011-06-22	Prepared By:	AR					

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	11.7	%	1	0

Sample: 270097 - Cell 19 (5-6')

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Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 82565
Prep Batch: 70114
Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 7471 B
Date Analyzed: 2011-06-27
Sample Preparation: 2011-06-27

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

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

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0753	<0.566	<0.0753	mg/Kg	1	0.0753	0.5	0.0665
Total Arsenic		1	4.89	4.89	<0.216	mg/Kg	1	0.216	2	0.191
Total Barium		1	459	459	<0.0184	mg/Kg	1	0.0184	1	0.0163
Total Cadmium	u	1	<0.0251	<0.566	<0.0251	mg/Kg	1	0.0251	0.5	0.0222
Total Chromium		1	2.92	2.92	<0.0540	mg/Kg	1	0.0540	0.5	0.0477
Total Mercury	J	1	0.00534	<0.0283	<0.00224	mg/Kg	1	0.00224	0.025	0.00198
Total Lead	u	1	<0.102	<1.13	<0.102	mg/Kg	1	0.102	1	0.0905
Total Selenium	u	1	<0.337	<2.26	<0.337	mg/Kg	1	0.337	2	0.298

Sample: 270097 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 82602
Prep Batch: 70155

Analytical Method: E 418.1
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			445	445	<5.42	mg/Kg	1	5.42	10	4.79

Sample: 270097 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82714
Prep Batch: 70261

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1	<19.4	<56.6	<19.4	mg/Kg	1	19.4	50	17.1

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Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			122	mg/Kg	1	100	122	70 - 130

Sample: 270097 - Cell 19 (5-6')

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 82462 Date Analyzed: 2011-06-23 Analyzed By: ME
Prep Batch: 70032 Sample Preparation: 2011-06-23 Prepared By: ME

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.853	<2.26	<0.853	mg/Kg	1	0.853	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.47	mg/Kg	1	2.00	124	48.5 - 152
4-Bromofluorobenzene (4-BFB)	j		1.96	mg/Kg	1	2.00	98	42 - 159

Sample: 270097 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 Sample Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	7.96	7.96	<0.117	mg/Kg	1	0.117	1	0.103

Sample: 270098 - Cell 18 (5-6')

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 82470 Date Analyzed: 2011-06-24 Analyzed By: ME
Prep Batch: 70036 Sample Preparation: 2011-06-23 Prepared By: ME

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0132	<0.0223	<0.0132	mg/Kg	1	0.0132	0.02	0.0118

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sample 270098 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Toluene	U	2	<0.00670	<0.0223	<0.00670	mg/Kg	1	0.00670	0.02	0.006
Ethylbenzene	U	2	<0.00949	<0.0223	<0.00949	mg/Kg	1	0.00949	0.02	0.0085
Xylene	U	2	<0.00684	<0.0223	<0.00684	mg/Kg	1	0.00684	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.40	mg/Kg	1	2.00	120	52.8 - 137
4-Bromofluorobenzene (4-BFB)			2.20	mg/Kg	1	2.00	110	38.4 - 157

Sample: 270098 - Cell 18 (5-6')

Laboratory:	Midland	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2011-06-23	Analyzed By:	AR
QC Batch:	82473	Sample Preparation:	2011-06-23	Prepared By:	AR
Prep Batch:	70038				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride			109	109	<0.257	mg/Kg	5	0.257	10	0.046

Sample: 270098 - Cell 18 (5-6')

Laboratory:	Lubbock	Analytical Method:	S 6010C	Prep Method:	S 3050B
Analysis:	Cu, Total	Date Analyzed:	2011-06-28	Analyzed By:	RR
QC Batch:	82598	Sample Preparation:	2011-06-28	Prepared By:	KV
Prep Batch:	70135				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	1.75	1.75	<0.0531	mg/Kg	1	0.0531	0.5	0.0476

Sample: 270098 - Cell 18 (5-6')

Laboratory:	Lubbock	Analytical Method:	S 6010C	Prep Method:	S 3050B
Analysis:	Fe, Total	Date Analyzed:	2011-06-28	Analyzed By:	RR
QC Batch:	82598	Sample Preparation:	2011-06-28	Prepared By:	KV
Prep Batch:	70135				

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	2610	2610	<0.762	mg/Kg	10	0.762	0.5	0.0683

Sample: 270098 - Cell 18 (5-6')

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 82445 Date Analyzed: 2011-06-23 Analyzed By: AR
Prep Batch: 70014 Sample Preparation: 2011-06-22 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	10.4	%	1	0

Sample: 270098 - Cell 18 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
QC Batch: 82565 Date Analyzed: 2011-06-27 Analyzed By: TP
Prep Batch: 70114 Sample Preparation: 2011-06-27 Prepared By: TP
Laboratory: Lubbock
Analysis: Total 8 Metals Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 Sample Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Silver	U	1	<0.0742	<0.558	<0.0742	mg/Kg	1	0.0742	0.5	0.0665
Total Arsenic		1	3.98	3.98	<0.213	mg/Kg	1	0.213	2	0.191
Total Barium		1	134	134	<0.0182	mg/Kg	1	0.0182	1	0.0163
Total Cadmium	U	1	<0.0248	<0.558	<0.0248	mg/Kg	1	0.0248	0.5	0.0222
Total Chromium		1	3.24	3.24	<0.0532	mg/Kg	1	0.0532	0.5	0.0477
Total Mercury	J	1	0.00577	<0.0279	<0.00221	mg/Kg	1	0.00221	0.025	0.00198
Total Lead	U	1	<0.101	<1.12	<0.101	mg/Kg	1	0.101	1	0.0905
Total Selenium	U	1	<0.332	<2.23	<0.332	mg/Kg	1	0.332	2	0.298

Sample: 270098 - Cell 18 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 82602 Date Analyzed: 2011-06-28 Analyzed By: DS
Prep Batch: 70155 Sample Preparation: 2011-06-28 Prepared By: DS

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	J		7.72	<11.2	<5.34	mg/Kg	1	5.34	10	4.79

Sample: 270098 - Cell 18 (5-6')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82714
Prep Batch: 70261

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1	<19.1	<55.8	<19.1	mg/Kg	1	19.1	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			118	mg/Kg	1	100	118	70 - 130

Sample: 270098 - Cell 18 (5-6')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 82471
Prep Batch: 70036

Analytical Method: S 8015 D
Date Analyzed: 2011-06-24
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	U	2	<0.840	<2.23	<0.840	mg/Kg	1	0.840	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.92	mg/Kg	1	2.00	146	48.5 - 152
4-Bromofluorobenzene (4-BFB)			2.43	mg/Kg	1	2.00	122	42 - 159

Sample: 270098 - Cell 18 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	8.69	8.69	<0.115	mg/Kg	1	0.115	1	0.103

Sample: 270099 - Cell 17 (5-6')

Laboratory: Midland
Analysis: BTEX
QC Batch: 82470
Prep Batch: 70036

Analytical Method: S 8021B
Date Analyzed: 2011-06-24
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	2	<0.0121	<0.0205	<0.0121	mg/Kg	1	0.0121	0.02	0.0118
Toluene	U	2	<0.00616	<0.0205	<0.00616	mg/Kg	1	0.00616	0.02	0.006
Ethylbenzene	U	2	<0.00872	<0.0205	<0.00872	mg/Kg	1	0.00872	0.02	0.0085
Xylene	U	2	<0.00629	<0.0205	<0.00629	mg/Kg	1	0.00629	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.29	mg/Kg	1	2.00	114	52.8 - 137
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1	2.00	107	38.4 - 157

Sample: 270099 - Cell 17 (5-6')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 82473
Prep Batch: 70038

Analytical Method: E 300.0
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		18.7	<51.5	<0.236	mg/Kg	5	0.236	10	0.046

Sample: 270099 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: Cu, Total
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	1.60	1.60	<0.0488	mg/Kg	1	0.0488	0.5	0.0476

Sample: 270099 - Cell 17 (5-6')

Laboratory: Lubbock
 Analysis: Fe, Total Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
 Prep Batch: 70135 Sample Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	2380	2380	<0.701	mg/Kg	10	0.701	0.5	0.0683

Sample: 270099 - Cell 17 (5-6')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 82446 Date Analyzed: 2011-06-23 Analyzed By: AR
 Prep Batch: 70014 Sample Preparation: 2011-06-22 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	2.56	%	1	0

Sample: 270099 - Cell 17 (5-6')

Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 82565 Date Analyzed: 2011-06-27 Analyzed By: TP
 Prep Batch: 70114 Sample Preparation: 2011-06-27 Prepared By: TP
 Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
 Prep Batch: 70135 Sample Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0682	<0.513	<0.0682	mg/Kg	1	0.0682	0.5	0.0665
Total Arsenic		1	5.79	5.79	<0.196	mg/Kg	1	0.196	2	0.191
Total Barium		1	878	878	<0.167	mg/Kg	10	0.167	1	0.0163
Total Cadmium	j	1	0.0431	<0.513	<0.0228	mg/Kg	1	0.0228	0.5	0.0222

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sample 270099 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Chromium		1	1.96	1.96	<0.0490	mg/Kg	1	0.0490	0.5	0.0477
Total Mercury	J	1	0.00552	<0.0256	<0.00203	mg/Kg	1	0.00203	0.025	0.00198
Total Lead	U	1	<0.0929	<1.03	<0.0929	mg/Kg	1	0.0929	1	0.0905
Total Selenium	U	1	<0.306	<2.05	<0.306	mg/Kg	1	0.306	2	0.298

Sample: 270099 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 82602
Prep Batch: 70155

Analytical Method: E 418.1
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	U		<4.92	<10.3	<4.92	mg/Kg	1	4.92	10	4.79

Sample: 270099 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82714
Prep Batch: 70261

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	1	<17.5	<51.3	<17.5	mg/Kg	1	17.5	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			121	mg/Kg	1	100	121	70 - 130

Sample: 270099 - Cell 17 (5-6')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 82471
Prep Batch: 70036

Analytical Method: S 8015 D
Date Analyzed: 2011-06-24
Sample Preparation: 2011-06-23

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

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based	Based	Blank				(Unadjusted)	(Unadjusted)	
			Result	Result	Result						
GRO	u	2	<0.773	<2.05	<0.773	mg/Kg	1	0.773	2	0.753	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.76	mg/Kg	1	2.00	138	48.5 - 152
4-Bromofluorobenzene (4-BFB)						2.36	mg/Kg	1	2.00	118	42 - 159

Sample: 270099 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	5.81	5.81	<0.106	mg/Kg	1	0.106	1	0.103

Sample: 270100 - Cell 21 (5-6')

Laboratory: Midland
Analysis: BTEX
QC Batch: 82470
Prep Batch: 70036

Analytical Method: S 8021B
Date Analyzed: 2011-06-24
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based	Based	Blank				(Unadjusted)	(Unadjusted)	
			Result	Result	Result						
Benzene	u	2	<0.0129	<0.0218	<0.0129	mg/Kg	1	0.0129	0.02	0.0118	
Toluene	u	2	<0.00655	<0.0218	<0.00655	mg/Kg	1	0.00655	0.02	0.006	
Ethylbenzene	u	2	<0.00927	<0.0218	<0.00927	mg/Kg	1	0.00927	0.02	0.0085	
Xylene	u	2	<0.00669	<0.0218	<0.00669	mg/Kg	1	0.00669	0.02	0.00613	
Surrogate				F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)						2.37	mg/Kg	1	2.00	118	52.8 - 137
4-Bromofluorobenzene (4-BFB)						2.18	mg/Kg	1	2.00	109	38.4 - 157

Sample: 270100 - Cell 21 (5-6')

Laboratory: Midland

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Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	82473	Date Analyzed:	2011-06-23	Analyzed By:	AR
Prep Batch:	70038	Sample Preparation:	2011-06-23	Prepared By:	AR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		24.8	<54.5	<0.251	mg/Kg	5	0.251	10	0.046

Sample: 270100 - Cell 21 (5-6')

Laboratory:	Lubbock									
Analysis:	Cu, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B					
QC Batch:	82598	Date Analyzed:	2011-06-28	Analyzed By:	RR					
Prep Batch:	70135	Sample Preparation:	2011-06-28	Prepared By:	KV					

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	4.47	4.47	<0.0519	mg/Kg	1	0.0519	0.5	0.0476

Sample: 270100 - Cell 21 (5-6')

Laboratory:	Lubbock									
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B					
QC Batch:	82598	Date Analyzed:	2011-06-28	Analyzed By:	RR					
Prep Batch:	70135	Sample Preparation:	2011-06-28	Prepared By:	KV					

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	3240	3240	<0.745	mg/Kg	10	0.745	0.5	0.0683

Sample: 270100 - Cell 21 (5-6')

Laboratory:	Midland									
Analysis:	Moisture Content	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A					
QC Batch:	82446	Date Analyzed:	2011-06-23	Analyzed By:	AR					
Prep Batch:	70014	Sample Preparation:	2011-06-22	Prepared By:	AR					

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	8.35	%	1	0

Sample: 270100 - Cell 21 (5-6')

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Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 82565
Prep Batch: 70114
Laboratory: Lubbock
Analysis: Total 8 Metals
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 7471 B
Date Analyzed: 2011-06-27
Sample Preparation: 2011-06-27

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

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

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0726	<0.546	<0.0726	mg/Kg	1	0.0726	0.5	0.0665
Total Arsenic		1	5.23	5.23	<0.208	mg/Kg	1	0.208	2	0.191
Total Barium		1	535	535	<0.178	mg/Kg	10	0.178	1	0.0163
Total Cadmium	u	1	<0.0242	<0.546	<0.0242	mg/Kg	1	0.0242	0.5	0.0222
Total Chromium		1	4.26	4.26	<0.0520	mg/Kg	1	0.0520	0.5	0.0477
Total Mercury	u	1	<0.00216	<0.0273	<0.00216	mg/Kg	1	0.00216	0.025	0.00198
Total Lead	u	1	<0.0987	<1.09	<0.0987	mg/Kg	1	0.0987	1	0.0905
Total Selenium	u	1	<0.325	<2.18	<0.325	mg/Kg	1	0.325	2	0.298

Sample: 270100 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 82602
Prep Batch: 70155

Analytical Method: E 418.1
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	J		10.2	<10.9	<5.23	mg/Kg	1	5.23	10	4.79

Sample: 270100 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82714
Prep Batch: 70261

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1	<18.6	<54.6	<18.6	mg/Kg	1	18.6	50	17.1

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Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			121	mg/Kg	1	100	121	70 - 130

Sample: 270100 - Cell 21 (5-6')

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 82471 Date Analyzed: 2011-06-24 Analyzed By: ME
Prep Batch: 70036 Sample Preparation: 2011-06-23 Prepared By: ME

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.822	<2.18	<0.822	mg/Kg	1	0.822	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.89	mg/Kg	1	2.00	144	48.5 - 152
4-Bromofluorobenzene (4-BFB)			2.42	mg/Kg	1	2.00	121	42 - 159

Sample: 270100 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 Sample Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	16.4	16.4	<0.112	mg/Kg	1	0.112	1	0.103

Sample: 270101 - Cell 25 (5-6')

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 82470 Date Analyzed: 2011-06-24 Analyzed By: ME
Prep Batch: 70036 Sample Preparation: 2011-06-23 Prepared By: ME

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	2	<0.0132	<0.0223	<0.0132	mg/Kg	1	0.0132	0.02	0.0118

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Toluene	U	2	<0.00669	<0.0223	<0.00669	mg/Kg	1	0.00669	0.02	0.006
Ethylbenzene	U	2	<0.00948	<0.0223	<0.00948	mg/Kg	1	0.00948	0.02	0.0085
Xylene	U	2	<0.00683	<0.0223	<0.00683	mg/Kg	1	0.00683	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.12	mg/Kg	1	2.00	106	52.8 - 137
4-Bromofluorobenzene (4-BFB)			1.97	mg/Kg	1	2.00	98	38.4 - 157

Sample: 270101 - Cell 25 (5-6')

Laboratory:	Midland	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2011-06-23	Analyzed By:	AR
QC Batch:	82473	Sample Preparation:	2011-06-23	Prepared By:	AR
Prep Batch:	70038				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		9.52	<55.5	<0.256	mg/Kg	5	0.256	10	0.046

Sample: 270101 - Cell 25 (5-6')

Laboratory:	Lubbock	Analytical Method:	S 6010C	Prep Method:	S 3050B
Analysis:	Cu, Total	Date Analyzed:	2011-06-28	Analyzed By:	RR
QC Batch:	82598	Sample Preparation:	2011-06-28	Prepared By:	KV
Prep Batch:	70135				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	2.44	2.44	<0.0531	mg/Kg	1	0.0531	0.5	0.0476

Sample: 270101 - Cell 25 (5-6')

Laboratory:	Lubbock	Analytical Method:	S 6010C	Prep Method:	S 3050B
Analysis:	Fe, Total	Date Analyzed:	2011-06-28	Analyzed By:	RR
QC Batch:	82598	Sample Preparation:	2011-06-28	Prepared By:	KV
Prep Batch:	70135				

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	5960	5960	<0.761	mg/Kg	10	0.761	0.5	0.0683

Sample: 270101 - Cell 25 (5-6')

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 82446 Date Analyzed: 2011-06-23 Analyzed By: AR
Prep Batch: 70014 Sample Preparation: 2011-06-22 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	10.3	%	1	0

Sample: 270101 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
QC Batch: 82565 Date Analyzed: 2011-06-27 Analyzed By: TP
Prep Batch: 70114 Sample Preparation: 2011-06-27 Prepared By: TP
Laboratory: Lubbock
Analysis: Total 8 Metals Analytical Method: S 6010C Prep Method: S 3050B
QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 Sample Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0741	<0.557	<0.0741	mg/Kg	1	0.0741	0.5	0.0665
Total Arsenic		1	3.56	3.56	<0.213	mg/Kg	1	0.213	2	0.191
Total Barium		1	89.4	89.4	<0.0182	mg/Kg	1	0.0182	1	0.0163
Total Cadmium	u	1	<0.0247	<0.557	<0.0247	mg/Kg	1	0.0247	0.5	0.0222
Total Chromium		1	6.97	6.97	<0.0532	mg/Kg	1	0.0532	0.5	0.0477
Total Mercury	u	1	<0.00221	<0.0279	<0.00221	mg/Kg	1	0.00221	0.025	0.00198
Total Lead	u	1	<0.101	<1.11	<0.101	mg/Kg	1	0.101	1	0.0905
Total Selenium	u	1	<0.332	<2.23	<0.332	mg/Kg	1	0.332	2	0.298

Sample: 270101 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 82602 Date Analyzed: 2011-06-28 Analyzed By: DS
Prep Batch: 70155 Sample Preparation: 2011-06-28 Prepared By: DS

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC	u		<5.34	<11.1	<5.34	mg/Kg	1	5.34	10	4.79

Sample: 270101 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82714
Prep Batch: 70261

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1	<19.1	<55.7	<19.1	mg/Kg	1	19.1	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			118	mg/Kg	1	100	118	70 - 130

Sample: 270101 - Cell 25 (5-6')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 82471
Prep Batch: 70036

Analytical Method: S 8015 D
Date Analyzed: 2011-06-24
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.839	<2.23	<0.839	mg/Kg	1	0.839	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.59	mg/Kg	1	2.00	130	48.5 - 152
4-Bromofluorobenzene (4-BFB)			2.20	mg/Kg	1	2.00	110	42 - 159

Sample: 270101 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	16.9	16.9	<0.115	mg/Kg	1	0.115	1	0.103

Sample: 270102 - Cell 26 (5-6')

Laboratory: Midland
Analysis: BTEX
QC Batch: 82470
Prep Batch: 70036

Analytical Method: S 8021B
Date Analyzed: 2011-06-24
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	2	<0.0126	<0.0213	<0.0126	mg/Kg	1	0.0126	0.02	0.0118
Toluene	U	2	<0.00639	<0.0213	<0.00639	mg/Kg	1	0.00639	0.02	0.006
Ethylbenzene	U	2	<0.00905	<0.0213	<0.00905	mg/Kg	1	0.00905	0.02	0.0085
Xylene	U	2	<0.00652	<0.0213	<0.00652	mg/Kg	1	0.00652	0.02	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.15	mg/Kg	1	2.00	108	52.8 - 137
4-Bromofluorobenzene (4-BFB)			2.06	mg/Kg	1	2.00	103	38.4 - 157

Sample: 270102 - Cell 26 (5-6')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 82473
Prep Batch: 70038

Analytical Method: E 300.0
Date Analyzed: 2011-06-23
Sample Preparation: 2011-06-23

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J		17.7	<53.0	<0.245	mg/Kg	5	0.245	10	0.046

Sample: 270102 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: Cu, Total
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Copper		1	2.09	2.09	<0.0507	mg/Kg	1	0.0507	0.5	0.0476

Sample: 270102 - Cell 26 (5-6')

Laboratory: Lubbock
 Analysis: Fe, Total Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
 Prep Batch: 70135 Sample Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Iron		1	2690	2690	<0.727	mg/Kg	10	0.727	0.5	0.0683

Sample: 270102 - Cell 26 (5-6')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 82446 Date Analyzed: 2011-06-23 Analyzed By: AR
 Prep Batch: 70014 Sample Preparation: 2011-06-22 Prepared By: AR

Parameter	F	C	RL Result	Units	Dilution	RL
Moisture		2	6.06	%	1	0

Sample: 270102 - Cell 26 (5-6')

Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 82565 Date Analyzed: 2011-06-27 Analyzed By: TP
 Prep Batch: 70114 Sample Preparation: 2011-06-27 Prepared By: TP
 Laboratory: Lubbock
 Analysis: Total 8 Metals Analytical Method: S 6010C Prep Method: S 3050B
 QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
 Prep Batch: 70135 Sample Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Silver	u	1	<0.0708	<0.532	<0.0708	mg/Kg	1	0.0708	0.5	0.0665
Total Arsenic		1	5.06	5.06	<0.203	mg/Kg	1	0.203	2	0.191
Total Barium		1	343	343	<0.174	mg/Kg	10	0.174	1	0.0163
Total Cadmium	u	1	<0.0236	<0.532	<0.0236	mg/Kg	1	0.0236	0.5	0.0222

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sample 270102 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Chromium		1	3.38	3.38	<0.0508	mg/Kg	1	0.0508	0.5	0.0477
Total Mercury	u	1	<0.00211	<0.0266	<0.00211	mg/Kg	1	0.00211	0.025	0.00198
Total Lead	u	1	<0.0963	<1.06	<0.0963	mg/Kg	1	0.0963	1	0.0905
Total Selenium	u	1	<0.317	<2.13	<0.317	mg/Kg	1	0.317	2	0.298

Sample: 270102 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 82602
Prep Batch: 70155

Analytical Method: E 418.1
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
TRPHC			51.6	51.6	<5.10	mg/Kg	1	5.10	10	4.79

Sample: 270102 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: TPH DRO - NEW
QC Batch: 82714
Prep Batch: 70261

Analytical Method: S 8015 D
Date Analyzed: 2011-06-30
Sample Preparation: 2011-06-30

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	u	1	<18.2	<53.2	<18.2	mg/Kg	1	18.2	50	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			121	mg/Kg	1	100	121	70 - 130

Sample: 270102 - Cell 26 (5-6')

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 82471
Prep Batch: 70036

Analytical Method: S 8015 D
Date Analyzed: 2011-06-24
Sample Preparation: 2011-06-23

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

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	u	2	<0.802	<2.13	<0.802	mg/Kg	1	0.802	2	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.64	mg/Kg	1	2.00	132	48.5 - 152
4-Bromofluorobenzene (4-BFB)			2.30	mg/Kg	1	2.00	115	42 - 159

Sample: 270102 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: Zn, Total
QC Batch: 82598
Prep Batch: 70135

Analytical Method: S 6010C
Date Analyzed: 2011-06-28
Sample Preparation: 2011-06-28

Prep Method: S 3050B
Analyzed By: RR
Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		1	9.68	9.68	<0.110	mg/Kg	1	0.110	1	0.103

Method Blanks

Method Blank (1)

QC Batch: 82460
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Parameter	F	C	Result	Units	Reporting Limits
Benzene		2	<0.0118	mg/Kg	0.0118
Toluene		2	<0.00600	mg/Kg	0.006
Ethylbenzene		2	<0.00850	mg/Kg	0.0085
Xylene		2	<0.00613	mg/Kg	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.59	mg/Kg	1	2.00	80	66.6 - 122
4-Bromofluorobenzene (4-BFB)			1.33	mg/Kg	1	2.00	66	55.4 - 124

Method Blank (1)

QC Batch: 82462
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Parameter	F	C	Result	Units	Reporting Limits
GRO		2	<0.753	mg/Kg	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	1	2.00	92	67.6 - 150
4-Bromofluorobenzene (4-BFB)			1.44	mg/Kg	1	2.00	72	52.4 - 130

Method Blank (1)

QC Batch: 82470
Prep Batch: 70036

Date Analyzed: 2011-06-24
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Parameter	F	C	Result	Units	Reporting Limits
Benzene		2	<0.0118	mg/Kg	0.0118

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method blank continued ...

Parameter	F	C	Result	Units	Reporting Limits
Toluene		2	<0.00600	mg/Kg	0.006
Ethylbenzene		2	<0.00850	mg/Kg	0.0085
Xylene		2	<0.00613	mg/Kg	0.00613

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.64	mg/Kg	1	2.00	82	66.6 - 122
4-Bromofluorobenzene (4-BFB)			1.48	mg/Kg	1	2.00	74	55.4 - 124

Method Blank (1)

QC Batch: 82471
Prep Batch: 70036

Date Analyzed: 2011-06-24
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Parameter	F	C	Result	Units	Reporting Limits
GRO		2	<0.753	mg/Kg	0.753

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.01	mg/Kg	1	2.00	100	67.6 - 150
4-Bromofluorobenzene (4-BFB)			1.66	mg/Kg	1	2.00	83	52.4 - 130

Method Blank (1)

QC Batch: 82473
Prep Batch: 70038

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: AR
Prepared By: AR

Parameter	F	C	Result	Units	Reporting Limits
Chloride			1.02	mg/Kg	0.046

Method Blank (1)

QC Batch: 82565
Prep Batch: 70114

Date Analyzed: 2011-06-27
QC Preparation: 2011-06-27

Analyzed By: TP
Prepared By: TP

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Parameter	F	C	Result	Units	Reporting Limits
Total Mercury		1	<0.00198	mg/Kg	0.00198

Method Blank (1)

QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 QC Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Copper		1	<0.0476	mg/Kg	0.0476

Method Blank (1)

QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 QC Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Iron		1	<0.0683	mg/Kg	0.0683

Method Blank (1)

QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 QC Preparation: 2011-06-28 Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Zinc		1	<0.103	mg/Kg	0.103

Method Blank (1)

QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 QC Preparation: 2011-06-28 Prepared By: KV

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Parameter	F	C	Result	Units	Reporting Limits
Total Silver		1	<0.0665	mg/Kg	0.0665
Total Arsenic		1	<0.191	mg/Kg	0.191
Total Barium		1	<0.0163	mg/Kg	0.0163
Total Cadmium		1	<0.0222	mg/Kg	0.0222
Total Chromium		1	<0.0477	mg/Kg	0.0477
Total Lead		1	<0.0905	mg/Kg	0.0905
Total Selenium		1	<0.298	mg/Kg	0.298

Method Blank (1)

QC Batch: 82602
Prep Batch: 70155

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: DS
Prepared By: DS

Parameter	F	C	Result	Units	Reporting Limits
TRPHC			<4.79	mg/Kg	4.79

Method Blank (1)

QC Batch: 82714
Prep Batch: 70261

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

Analyzed By: CM
Prepared By: CM

Parameter	F	C	Result	Units	Reporting Limits
DRO		1	<17.1	mg/Kg	17.1

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			127	mg/Kg	1	100	127	70 - 130

Duplicate (1) Duplicated Sample: 270098

QC Batch: 82445
Prep Batch: 70014

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-22

Analyzed By: AR
Prepared By: AR

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		2	10.7	10.4	%	1	3	20

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Duplicate (1) Duplicated Sample: 270102

QC Batch: 82446
Prep Batch: 70014

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-22

Analyzed By: AR
Prepared By: AR

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture		2	6.15	6.06	%	1	2	20

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 82460
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.17	mg/Kg	1	2.00	<0.0118	108	81.9 - 108
Toluene		2	2.32	mg/Kg	1	2.00	<0.00600	116	81.9 - 118
Ethylbenzene		2	1.92	mg/Kg	1	2.00	<0.00850	96	78.4 - 115
Xylene		2	5.75	mg/Kg	1	6.00	<0.00613	96	79.1 - 116

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	2.16	mg/Kg	1	2.00	<0.0118	108	81.9 - 108	0	20
Toluene		2	2.32	mg/Kg	1	2.00	<0.00600	116	81.9 - 118	0	20
Ethylbenzene		2	1.94	mg/Kg	1	2.00	<0.00850	97	78.4 - 115	1	20
Xylene		2	5.74	mg/Kg	1	6.00	<0.00613	96	79.1 - 116	0	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.88	1.86	mg/Kg	1	2.00	94	93	70.2 - 114
4-Bromofluorobenzene (4-BFB)			1.77	1.78	mg/Kg	1	2.00	88	89	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 82462
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	13.4	mg/Kg	1	20.0	<0.753	67	60.9 - 95.4

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
GRO		2	13.0	mg/Kg	1	20.0	<0.753	65	60.9 - 95.4	3	20

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

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Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.09	2.14	mg/Kg	1	2.00	104	107	61.9 - 142
4-Bromofluorobenzene (4-BFB)			1.82	1.87	mg/Kg	1	2.00	91	94	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 82470
Prep Batch: 70036

Date Analyzed: 2011-06-24
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.16	mg/Kg	1	2.00	<0.0118	108	81.9 - 108
Toluene		2	2.20	mg/Kg	1	2.00	<0.00600	110	81.9 - 118
Ethylbenzene		2	1.82	mg/Kg	1	2.00	<0.00850	91	78.4 - 115
Xylene		2	5.45	mg/Kg	1	6.00	<0.00613	91	79.1 - 116

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	2.13	mg/Kg	1	2.00	<0.0118	106	81.9 - 108	1	20
Toluene		2	2.20	mg/Kg	1	2.00	<0.00600	110	81.9 - 118	0	20
Ethylbenzene		2	1.82	mg/Kg	1	2.00	<0.00850	91	78.4 - 115	0	20
Xylene		2	5.44	mg/Kg	1	6.00	<0.00613	91	79.1 - 116	0	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.64	1.49	mg/Kg	1	2.00	82	74	70.2 - 114
4-Bromofluorobenzene (4-BFB)			1.64	1.47	mg/Kg	1	2.00	82	74	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 82471
Prep Batch: 70036

Date Analyzed: 2011-06-24
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	12.8	mg/Kg	1	20.0	<0.753	64	60.9 - 95.4

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
GRO		2	13.4	mg/Kg	1	20.0	<0.753	67	60.9 - 95.4	5	20

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

Surrogate	F	C	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.89	2.06	mg/Kg	1	2.00	94	103	61.9 - 142
4-Bromofluorobenzene (4-BFB)			1.71	1.88	mg/Kg	1	2.00	86	94	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 82473
Prep Batch: 70038

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			25.0	mg/Kg	1	25.0	<0.0460	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			24.9	mg/Kg	1	25.0	<0.0460	100	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 82565
Prep Batch: 70114

Date Analyzed: 2011-06-27
QC Preparation: 2011-06-27

Analyzed By: TP
Prepared By: TP

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		1	0.262	mg/Kg	1	0.250	<0.00198	105	80 - 120

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury		1	0.264	mg/Kg	1	0.250	<0.00198	106	80 - 120	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 82598
Prep Batch: 70135

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: RR
Prepared By: KV

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper		1	13.7	mg/Kg	1	12.5	<0.0476	110	85 - 115

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
Total Copper		1	13.3	mg/Kg	1	12.5	<0.0476	106	85 - 115	3	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 82598
Prep Batch: 70135

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1	56.4	mg/Kg	1	50.0	<0.0683	113	85 - 115

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
Total Iron		1	55.0	mg/Kg	1	50.0	<0.0683	110	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 82598
Prep Batch: 70135

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		1	25.7	mg/Kg	1	25.0	<0.103	103	85 - 115

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
Total Zinc		1	25.9	mg/Kg	1	25.0	<0.103	104	85 - 115	1	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 82598
Prep Batch: 70135

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		1	12.6	mg/Kg	1	12.5	<0.0665	101	85 - 115
Total Arsenic		1	50.7	mg/Kg	1	50.0	<0.191	101	85 - 115
Total Barium		1	107	mg/Kg	1	100	<0.0163	107	85 - 115
Total Cadmium		1	27.2	mg/Kg	1	25.0	<0.0222	109	85 - 115
Total Chromium		1	10.3	mg/Kg	1	10.0	<0.0477	103	85 - 115
Total Lead		1	52.3	mg/Kg	1	50.0	<0.0905	105	85 - 115
Total Selenium		1	47.7	mg/Kg	1	50.0	<0.298	95	85 - 115

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
Total Silver		1	12.4	mg/Kg	1	12.5	<0.0665	99	85 - 115	2	20
Total Arsenic		1	50.5	mg/Kg	1	50.0	<0.191	101	85 - 115	0	20
Total Barium		1	106	mg/Kg	1	100	<0.0163	106	85 - 115	1	20
Total Cadmium		1	26.6	mg/Kg	1	25.0	<0.0222	106	85 - 115	2	20
Total Chromium		1	10.2	mg/Kg	1	10.0	<0.0477	102	85 - 115	1	20
Total Lead		1	50.5	mg/Kg	1	50.0	<0.0905	101	85 - 115	4	20
Total Selenium		1	46.7	mg/Kg	1	50.0	<0.298	93	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 82602
Prep Batch: 70155

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: DS
Prepared By: DS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			277	mg/Kg	1	250	<4.79	111	84.3 - 122

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
TRPHC			250	mg/Kg	1	250	<4.79	100	84.3 - 122	10	

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

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Laboratory Control Spike (LCS-1)

QC Batch: 82714
Prep Batch: 70261

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

Analyzed By: CM
Prepared By: CM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	308	mg/Kg	1	250	<17.1	123	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
DRO		1	314	mg/Kg	1	250	<17.1	126	70 - 130	2	20

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

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane			117	118	mg/Kg	1	100	117	118	70 - 130

Matrix Spike (MS-1) Spiked Sample: 270097

QC Batch: 82460
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	1.88	mg/Kg	1	2.00	<0.0118	94	80.5 - 112
Toluene		2	1.95	mg/Kg	1	2.00	<0.00600	98	82.4 - 113
Ethylbenzene		2	1.70	mg/Kg	1	2.00	<0.00850	85	83.9 - 114
Xylene		2	5.10	mg/Kg	1	6.00	<0.00613	85	84 - 114

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	2.04	mg/Kg	1	2.00	<0.0118	102	80.5 - 112	8	20
Toluene		2	2.14	mg/Kg	1	2.00	<0.00600	107	82.4 - 113	9	20
Ethylbenzene		2	1.88	mg/Kg	1	2.00	<0.00850	94	83.9 - 114	10	20
Xylene		2	5.57	mg/Kg	1	6.00	<0.00613	93	84 - 114	9	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.32	2.37	mg/Kg	1	2	116	118	41.3 - 117
4-Bromofluorobenzene (4-BFB)			2.08	2.12	mg/Kg	1	2	104	106	35.5 - 129

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Matrix Spike (MS-1) Spiked Sample: 270096

QC Batch: 82462
Prep Batch: 70032

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	11.3	mg/Kg	1	20.0	<0.753	56	61.8 - 114

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
GRO		2	11.6	mg/Kg	1	20.0	<0.753	58	61.8 - 114	3	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.36	2.22	mg/Kg	1	2	118	111	50 - 162
4-Bromofluorobenzene (4-BFB)			2.06	1.94	mg/Kg	1	2	103	97	50 - 162

Matrix Spike (MS-1) Spiked Sample: 270102

QC Batch: 82470
Prep Batch: 70036

Date Analyzed: 2011-06-24
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.08	mg/Kg	1	2.00	<0.0118	104	80.5 - 112
Toluene		2	2.21	mg/Kg	1	2.00	<0.00600	110	82.4 - 113
Ethylbenzene		2	1.95	mg/Kg	1	2.00	<0.00850	98	83.9 - 114
Xylene		2	5.82	mg/Kg	1	6.00	<0.00613	97	84 - 114

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	2.04	mg/Kg	1	2.00	<0.0118	102	80.5 - 112	2	20
Toluene		2	2.16	mg/Kg	1	2.00	<0.00600	108	82.4 - 113	2	20
Ethylbenzene		2	1.90	mg/Kg	1	2.00	<0.00850	95	83.9 - 114	3	20
Xylene		2	5.69	mg/Kg	1	6.00	<0.00613	95	84 - 114	2	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.31	2.21	mg/Kg	1	2	116	110	41.3 - 117
4-Bromofluorobenzene (4-BFB)			2.31	2.19	mg/Kg	1	2	116	110	35.5 - 129

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Matrix Spike (MS-1) Spiked Sample: 270101

QC Batch: 82471
Prep Batch: 70036

Date Analyzed: 2011-06-24
QC Preparation: 2011-06-23

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	14.5	mg/Kg	1	20.0	<0.753	72	61.8 - 114

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
GRO		2	13.2	mg/Kg	1	20.0	<0.753	66	61.8 - 114	9	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.85	2.49	mg/Kg	1	2	142	124	50 - 162
4-Bromofluorobenzene (4-BFB)			2.60	2.34	mg/Kg	1	2	130	117	50 - 162

Matrix Spike (MS-1) Spiked Sample: 270102

QC Batch: 82473
Prep Batch: 70038

Date Analyzed: 2011-06-23
QC Preparation: 2011-06-23

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			140	mg/Kg	5	138	16.6	90	90 - 110

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
Chloride			137	mg/Kg	5	138	16.6	88	90 - 110	2	20

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

Matrix Spike (MS-1) Spiked Sample: 270021

QC Batch: 82565
Prep Batch: 70114

Date Analyzed: 2011-06-27
QC Preparation: 2011-06-27

Analyzed By: TP
Prepared By: TP

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		1	0.254	mg/Kg	1	0.250	<0.00198	102	80 - 120

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

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury		1	0.256	mg/Kg	1	0.250	<0.00198	102	80 - 120	1	20

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

Matrix Spike (MS-1) Spiked Sample: 270097

QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 QC Preparation: 2011-06-28 Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper		1	14.6	mg/Kg	1	12.5	1.67	103	75 - 125

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
Total Copper		1	14.5	mg/Kg	1	12.5	1.67	103	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 270097

QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 QC Preparation: 2011-06-28 Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1	2250	mg/Kg	1	50.0	2200	100	75 - 125

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
Total Iron		1	2250	mg/Kg	1	50.0	2200	100	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 270097

QC Batch: 82598 Date Analyzed: 2011-06-28 Analyzed By: RR
Prep Batch: 70135 QC Preparation: 2011-06-28 Prepared By: KV

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Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		1	35.1	mg/Kg	1	25.0	7.03	112	75 - 125

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
Total Zinc		1	34.3	mg/Kg	1	25.0	7.03	109	75 - 125	2	20

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

Matrix Spike (MS-1) Spiked Sample: 270097

QC Batch: 82598
Prep Batch: 70135

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		1	11.5	mg/Kg	1	12.5	<0.0665	92	75 - 125
Total Arsenic		1	53.9	mg/Kg	1	50.0	4.32	99	75 - 125
Total Barium		1	506	mg/Kg	1	100	405	101	75 - 125
Total Cadmium		1	23.7	mg/Kg	1	25.0	<0.0222	95	75 - 125
Total Chromium		1	12.5	mg/Kg	1	10.0	2.58	99	75 - 125
Total Lead		1	50.5	mg/Kg	1	50.0	<0.0905	101	75 - 125
Total Selenium		1	44.8	mg/Kg	1	50.0	<0.298	90	75 - 125

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
Total Silver		1	11.8	mg/Kg	1	12.5	<0.0665	94	75 - 125	3	20
Total Arsenic		1	53.9	mg/Kg	1	50.0	4.32	99	75 - 125	0	20
Total Barium		1	507	mg/Kg	1	100	405	102	75 - 125	0	20
Total Cadmium		1	24.1	mg/Kg	1	25.0	<0.0222	96	75 - 125	2	20
Total Chromium		1	11.5	mg/Kg	1	10.0	2.58	89	75 - 125	8	20
Total Lead		1	48.7	mg/Kg	1	50.0	<0.0905	97	75 - 125	4	20
Total Selenium		1	44.6	mg/Kg	1	50.0	<0.298	89	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 270102

QC Batch: 82602
Prep Batch: 70155

Date Analyzed: 2011-06-28
QC Preparation: 2011-06-28

Analyzed By: DS
Prepared By: DS

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Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			334	mg/Kg	1	250	48.5	114	43 - 161

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
TRPHC			330	mg/Kg	1	250	48.5	113	43 - 161	1	

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

Matrix Spike (MS-1) Spiked Sample: 270102

QC Batch: 82714
Prep Batch: 70261

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

Analyzed By: CM
Prepared By: CM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	257	mg/Kg	1	250	<17.1	103	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
DRO		1	257	mg/Kg	1	250	<17.1	103	70 - 130	0	20

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

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane			117	117	mg/Kg	1	100	117	117	70 - 130

Calibration Standards

Standard (CCV-2)

QC Batch: 82460

Date Analyzed: 2011-06-23

Analyzed By: ME

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.106	106	80 - 120	2011-06-23
Toluene		2	mg/Kg	0.100	0.108	108	80 - 120	2011-06-23
Ethylbenzene		2	mg/Kg	0.100	0.0857	86	80 - 120	2011-06-23
Xylene		2	mg/Kg	0.300	0.256	85	80 - 120	2011-06-23

Standard (CCV-3)

QC Batch: 82460

Date Analyzed: 2011-06-23

Analyzed By: ME

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.101	101	80 - 120	2011-06-23
Toluene		2	mg/Kg	0.100	0.104	104	80 - 120	2011-06-23
Ethylbenzene		2	mg/Kg	0.100	0.0857	86	80 - 120	2011-06-23
Xylene		2	mg/Kg	0.300	0.255	85	80 - 120	2011-06-23

Standard (CCV-2)

QC Batch: 82462

Date Analyzed: 2011-06-23

Analyzed By: ME

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.821	82	80 - 120	2011-06-23

Standard (CCV-3)

QC Batch: 82462

Date Analyzed: 2011-06-23

Analyzed By: ME

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.884	88	80 - 120	2011-06-23

Standard (CCV-1)

QC Batch: 82470

Date Analyzed: 2011-06-24

Analyzed By: ME

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.0980	98	80 - 120	2011-06-24
Toluene		2	mg/Kg	0.100	0.101	101	80 - 120	2011-06-24
Ethylbenzene		2	mg/Kg	0.100	0.0838	84	80 - 120	2011-06-24
Xylene		2	mg/Kg	0.300	0.250	83	80 - 120	2011-06-24

Standard (CCV-2)

QC Batch: 82470

Date Analyzed: 2011-06-24

Analyzed By: ME

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/Kg	0.100	0.109	109	80 - 120	2011-06-24
Toluene		2	mg/Kg	0.100	0.112	112	80 - 120	2011-06-24
Ethylbenzene		2	mg/Kg	0.100	0.0944	94	80 - 120	2011-06-24
Xylene		2	mg/Kg	0.300	0.281	94	80 - 120	2011-06-24

Standard (CCV-1)

QC Batch: 82471

Date Analyzed: 2011-06-24

Analyzed By: ME

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.916	92	80 - 120	2011-06-24

Standard (CCV-2)

QC Batch: 82471

Date Analyzed: 2011-06-24

Analyzed By: ME

Report Date: July 8, 2011
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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.878	88	80 - 120	2011-06-24

Standard (ICV-1)

QC Batch: 82473

Date Analyzed: 2011-06-23

Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	24.9	100	90 - 110	2011-06-23

Standard (CCV-1)

QC Batch: 82473

Date Analyzed: 2011-06-23

Analyzed By: AR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	25.1	100	90 - 110	2011-06-23

Standard (CCV-1)

QC Batch: 82565

Date Analyzed: 2011-06-27

Analyzed By: TP

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		1	mg/L	0.0100	0.00987	99	80 - 120	2011-06-27

Standard (CCV-2)

QC Batch: 82565

Date Analyzed: 2011-06-27

Analyzed By: TP

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		1	mg/L	0.0100	0.0100	100	80 - 120	2011-06-27

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Standard (ICV-1)

QC Batch: 82598

Date Analyzed: 2011-06-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		1	mg/Kg	1.00	0.997	100	90 - 110	2011-06-28

Standard (ICV-1)

QC Batch: 82598

Date Analyzed: 2011-06-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1	mg/Kg	1.00	0.992	99	90 - 110	2011-06-28

Standard (ICV-1)

QC Batch: 82598

Date Analyzed: 2011-06-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		1	mg/Kg	1.00	1.01	101	90 - 110	2011-06-28

Standard (ICV-1)

QC Batch: 82598

Date Analyzed: 2011-06-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		1	mg/Kg	0.125	0.121	97	90 - 110	2011-06-28
Total Arsenic		1	mg/Kg	1.00	0.983	98	90 - 110	2011-06-28
Total Barium		1	mg/Kg	1.00	0.974	97	90 - 110	2011-06-28
Total Cadmium		1	mg/Kg	1.00	1.00	100	90 - 110	2011-06-28
Total Chromium		1	mg/Kg	1.00	0.971	97	90 - 110	2011-06-28
Total Lead		1	mg/Kg	1.00	0.998	100	90 - 110	2011-06-28
Total Selenium		1	mg/Kg	1.00	0.986	99	90 - 110	2011-06-28

Report Date: July 8, 2011
6-0137

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Standard (CCV-1)

QC Batch: 82598

Date Analyzed: 2011-06-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		1	mg/Kg	1.00	1.02	102	90 - 110	2011-06-28

Standard (CCV-1)

QC Batch: 82598

Date Analyzed: 2011-06-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1	mg/Kg	1.00	1.03	103	90 - 110	2011-06-28

Standard (CCV-1)

QC Batch: 82598

Date Analyzed: 2011-06-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		1	mg/Kg	1.00	1.04	104	90 - 110	2011-06-28

Standard (CCV-1)

QC Batch: 82598

Date Analyzed: 2011-06-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		1	mg/Kg	0.125	0.123	98	90 - 110	2011-06-28
Total Arsenic		1	mg/Kg	1.00	1.05	105	90 - 110	2011-06-28
Total Barium		1	mg/Kg	1.00	1.02	102	90 - 110	2011-06-28
Total Cadmium		1	mg/Kg	1.00	1.01	101	90 - 110	2011-06-28
Total Chromium		1	mg/Kg	1.00	0.995	100	90 - 110	2011-06-28
Total Lead		1	mg/Kg	1.00	1.00	100	90 - 110	2011-06-28
Total Selenium		1	mg/Kg	1.00	1.03	103	90 - 110	2011-06-28

Report Date: July 8, 2011
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Work Order: 11062122
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Standard (CCV-2)

QC Batch: 82602 Date Analyzed: 2011-06-28 Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	104	104	80 - 120	2011-06-28

Standard (CCV-3)

QC Batch: 82602 Date Analyzed: 2011-06-28 Analyzed By: DS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	101	101	80 - 120	2011-06-28

Standard (CCV-1)

QC Batch: 82714 Date Analyzed: 2011-06-30 Analyzed By: CM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	301	120	80 - 120	2011-06-30

Standard (CCV-2)

QC Batch: 82714 Date Analyzed: 2011-06-30 Analyzed By: CM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	300	120	80 - 120	2011-06-30

Standard (CCV-3)

QC Batch: 82714 Date Analyzed: 2011-06-30 Analyzed By: CM

Report Date: July 8, 2011
6-0137

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Chevron Landfarm

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	290	116	80 - 120	2011-06-30

Appendix

Laboratory Certifications

	Certifying C Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-11-TX	Lubbock
2	NELAP	T104704392-10-TX	Midland

Standard Flags

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

Attachments

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

Appendix A

Laboratory Data Package Cover Page – Page 1 of 4

This data package is for Job No. 11062122 and laboratory batch no(s) all inclusive to that Job No and consists of:

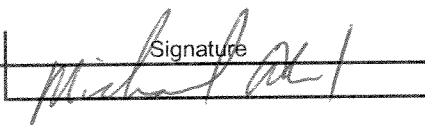
This signature page, the laboratory review checklist, and the following reportable data:

- ☐ R1 Field chain-of-custody documentation;
- ☐ R2 Sample identification cross-reference;
- ☐ R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- ☐ R4 Surrogate recovery data including:
 - a) calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- ☐ R5 Test reports/summary forms for blank samples;
- ☐ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- ☐ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- ☐ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- ☐ R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- ☐ R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in the laboratory review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: ☐ This laboratory meets an exception under 30 TAC §25.6 and was last inspection by ☐ TCEQ or ☐ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (Print)	Date
Michael Abel		Production Manager	07/08/2011

Laboratory Review Checklist: Reportable Data – Page 2 of 4

Laboratory Name: TraceAnalysis, Inc.			LRC Date: 7/08/11				
Project Name: Chevron Landfarm			Laboratory Job Number: 11062122				
Reviewer Name: Michael Abel			Prep Batch Number(s): All Inclusive for Order I.D.				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
		Were all departures from standard conditions described in an exception report?	✓				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	✓				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		Were calculations checked by a peer or supervisor?	✓				
		Were all analyte identifications checked by a peer or supervisor?	✓				
		Were sample detection limits reported for all analytes not detected?	✓				
		Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?	✓				
		If required for the project, are TICs reported?			✓		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	✓				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	✓				
		Were blanks analyzed at the appropriate frequency?	✓				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		Were blank concentrations < MQL?	✓				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	✓				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		Were LCSs analyzed at required frequency?	✓				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	✓				
		Was the LCSD RPD within QC limits?	✓				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	✓				
		Were MS/MSD analyzed at the appropriate frequency?	✓				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	✓				
		Were analytical duplicates analyzed at the appropriate frequency?	✓				
		Were RPDs relative standard deviations within the laboratory QC limits?	✓				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	✓				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	✓				

Laboratory Review Checklist: Reportable Data – Page 2 of 4 Continued

Laboratory Name: TraceAnalysis, Inc.			LRC Date: 7/08/11				
Project Name: Chevron Landfarm			Laboratory Job Number: 11062122				
Reviewer Name: Michael Abel			Prep Batch Number(s): All Inclusive for Order I.D.				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	✓				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	✓				
1 Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3 NA = Not applicable; 4 NR = Not reviewed; 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Supporting Data – Page 3 of 4

Laboratory Name: TraceAnalysis, Inc.			LRC Date: 7/08/11				
Project Name: Chevron Landfarm			Laboratory Job Number: 11062122				
Reviewer Name: Michael Abel			Prep Batch Number(s): All Inclusive for Order I.D.				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		Were response factors and /or relative response factors for each analyte within QC limits?	✓				
		Were percent RSDs or correlation coefficient criteria met?	✓				
		Was the number of standards recommended in the method used for all analytes?	✓				
		Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		Are ICAL data available for all instruments used?	✓				
		Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	✓				
		Were percent differences for each analyte within the method required QC limits?	✓				
		Was the ICAL curve verified for each analyte?	✓				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?			✓		
		Were ion abundance data within the method-required QC limits?			✓		
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?			✓		
S5	O	Raw data (NELAC section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?			✓		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	✓				
		Is the MDL either adjusted or supported by the analysis of DCSS?	✓				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	✓				
		Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	✓				
1 Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3 NA = Not applicable; 4 NR = Not reviewed; 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

LRC Reviewer:
LRC Date: July 8, 2011

Project Name: Chevron Landfarm
Project Number: 6-0137

Work Order: 11062122

.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Alexis Johnson
Larson and Associates, Inc.

Report Date: March 21, 2011

P. O. Box 50685
Midland, TX, 79710

Work Order: 11030905



Project Location: NM
Project Name: Chevron Landfarm
Project Number: 6-0137

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
259974	Cell 17 (0-1')	soil	2011-03-08	09:45	2011-03-09
259975	Cell 18 (0-1')	soil	2011-03-08	09:33	2011-03-09
259976	Cell 19 (0-1')	soil	2011-03-08	09:20	2011-03-09
259977	Cell 20 (0-1')	soil	2011-03-08	09:05	2011-03-09
259978	Cell 21 (0-1')	soil	2011-03-08	10:20	2011-03-09
259979	Cell 25 (0-1')	soil	2011-03-08	10:10	2011-03-09
259980	Cell 26 (0-1')	soil	2011-03-08	09:58	2011-03-09

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

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

Standard Flags

- U** - Not detected. The analyte is not detected above the SDL.
- J** - Estimated. The analyte is positively identified and the value is approximated between the SDL and MQL.
- B** - The sample contains less than ten times the concentration found in the method blank.
- JB** - The analyte is positively identified and the value is approximated between the SDL and MQL.
The sample contains less than ten times the concentration found in the method blank.
The result should be considered non-detect to the SDL.



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

Samples for project Chevron Landfarm were received by TraceAnalysis, Inc. on 2011-03-09 and assigned to work order 11030905. Samples for work order 11030905 were received intact at a temperature of 1.8 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	67358	2011-03-15 at 10:58	79388	2011-03-15 at 10:38
BTEX	S 8021B	67492	2011-03-18 at 16:16	79537	2011-03-18 at 16:16
Chloride (IC)	E 300.0	67286	2011-03-11 at 13:49	79325	2011-03-15 at 10:58
Moisture Content	ASTM D 2216-05	67312	2011-03-14 at 11:35	79333	2011-03-15 at 11:35
TPH 418.1	E 418.1	67384	2011-03-16 at 10:30	79432	2011-03-16 at 10:30
TPH DRO - NEW	S 8015 D	67269	2011-03-10 at 11:05	79285	2011-03-10 at 11:05
TPH DRO - NEW	S 8015 D	67280	2011-03-10 at 11:05	79293	2011-03-10 at 11:05
TPH GRO	S 8015 D	67358	2011-03-15 at 10:58	79389	2011-03-15 at 10:58
TPH GRO	S 8015 D	67492	2011-03-18 at 16:16	79538	2011-03-18 at 16:16

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 11030905 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

Note: All sample results are reported on a dry weight basis.

Sample: 259974 - Cell 17 (0-1')

Laboratory: Midland
Analysis: BTEX
QC Batch: 79388
Prep Batch: 67358

Analytical Method: S 8021B
Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-15

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.0119	<0.0202	<0.0119	mg/Kg	1	0.0119	0.02	0.0118
Toluene	U	<0.00607	<0.0202	<0.00607	mg/Kg	1	0.00607	0.02	0.006
Ethylbenzene	U	<0.00860	<0.0202	<0.00860	mg/Kg	1	0.00860	0.02	0.0085
Xylene		0.396	0.396	<0.00620	mg/Kg	1	0.00620	0.02	0.00613

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.53	mg/Kg	1	2.00	126	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.50	mg/Kg	1	2.00	125	38.4 - 157

Sample: 259974 - Cell 17 (0-1')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 79325
Prep Batch: 67286

Analytical Method: E 300.0
Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-11

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	6.40	<50.5	<0.233	mg/Kg	5	0.233	10	0.046

Sample: 259974 - Cell 17 (0-1')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 79333
Prep Batch: 67312

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-14

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

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		1.13	%	1	0

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Sample: 259974 - Cell 17 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS
Prep Batch: 67384 Sample Preparation: 2011-03-16 Prepared By: DS

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		429	429	<4.84	mg/Kg	1	4.84	10	4.79

Sample: 259974 - Cell 17 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 79285 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67269 Sample Preparation: 2011-03-10 Prepared By: kg

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO		88.1	88.1	<15.9	mg/Kg	1	15.9	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		95.7	mg/Kg	1	100	96	70 - 130

Sample: 259974 - Cell 17 (0-1')

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 79389 Date Analyzed: 2011-03-15 Analyzed By: ME
Prep Batch: 67358 Sample Preparation: 2011-03-15 Prepared By: ME

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	U	<0.762	<2.02	<0.762	mg/Kg	1	0.762	2	0.753

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.60	mg/Kg	1	2.00	130	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.36	mg/Kg	1	2.00	118	42 - 159

Sample: 259975 - Cell 18 (0-1')

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Laboratory: Lubbock
Analysis: BTEX
QC Batch: 79537
Prep Batch: 67492

Analytical Method: S 8021B
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	¹ U	<0.0169	<0.101	<0.0169	mg/Kg	5	0.0169	0.02	0.00335
Toluene	U	<0.0238	<0.101	<0.0238	mg/Kg	5	0.0238	0.02	0.00471
Ethylbenzene	U	<0.0222	<0.101	<0.0222	mg/Kg	5	0.0222	0.02	0.0044
Xylene	U	<0.0281	<0.101	<0.0281	mg/Kg	5	0.0281	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.60	mg/Kg	5	2.00	80	70 - 112
4-Bromofluorobenzene (4-BFB)		2.13	mg/Kg	5	2.00	106	72.7 - 114

Sample: 259975 - Cell 18 (0-1')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 79325
Prep Batch: 67286

Analytical Method: E 300.0
Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-11

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	5.60	<50.5	<0.232	mg/Kg	5	0.232	10	0.046

Sample: 259975 - Cell 18 (0-1')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 79333
Prep Batch: 67312

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-14

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

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		0.913	%	1	0

Sample: 259975 - Cell 18 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1

Analytical Method: E 418.1

Prep Method: N/A

¹Sample dilution necessitated due to the presence of surfactants in sample.

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QC Batch: 79432
Prep Batch: 67384

Date Analyzed: 2011-03-16
Sample Preparation: 2011-03-16

Analyzed By: DS
Prepared By: DS

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		150	150	<4.83	mg/Kg	1	4.83	10	4.79

Sample: 259975 - Cell 18 (0-1')

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 79285

Prep Batch: 67269

Analytical Method: S 8015 D

Date Analyzed: 2011-03-10

Sample Preparation: 2011-03-10

Prep Method: N/A

Analyzed By: kg

Prepared By: kg

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	J	40.3	<50.5	<15.8	mg/Kg	1	15.8	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		93.1	mg/Kg	1	100	93	70 - 130

Sample: 259975 - Cell 18 (0-1')

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 79538

Prep Batch: 67492

Analytical Method: S 8015 D

Date Analyzed: 2011-03-18

Sample Preparation: 2011-03-18

Prep Method: S 5035

Analyzed By: ER

Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	² U	<2.25	<10.1	<2.25	mg/Kg	5	2.25	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.54	mg/Kg	5	2.00	77	70 - 130
4-Bromofluorobenzene (4-BFB)		1.77	mg/Kg	5	2.00	88	70 - 130

Sample: 259976 - Cell 19 (0-1')

Laboratory: Lubbock

Analysis: BTEX

Analytical Method: S 8021B

Prep Method: S 5035

²Sample dilution necessitated due to the presence of surfactants in sample.

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QC Batch: 79537
Prep Batch: 67492

Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	³ U	<0.0170	<0.101	<0.0170	mg/Kg	5	0.0170	0.02	0.00335
Toluene	U	<0.0238	<0.101	<0.0238	mg/Kg	5	0.0238	0.02	0.00471
Ethylbenzene	U	<0.0223	<0.101	<0.0223	mg/Kg	5	0.0223	0.02	0.0044
Xylene	U	<0.0282	<0.101	<0.0282	mg/Kg	5	0.0282	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.74	mg/Kg	5	2.00	87	70 - 112
4-Bromofluorobenzene (4-BFB)		2.14	mg/Kg	5	2.00	107	72.7 - 114

Sample: 259976 - Cell 19 (0-1')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 79325
Prep Batch: 67286

Analytical Method: E 300.0
Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-11

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

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	175	<505	<2.33	mg/Kg	50	2.33	10	0.046

Sample: 259976 - Cell 19 (0-1')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 79333
Prep Batch: 67312

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-14

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

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		1.25	%	1	0

Sample: 259976 - Cell 19 (0-1')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 79432
Prep Batch: 67384

Analytical Method: E 418.1
Date Analyzed: 2011-03-16
Sample Preparation: 2011-03-16

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

³Sample dilution necessitated due to the presence of surfactants in sample.

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Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		65.5	65.5	<4.85	mg/Kg	1	4.85	10	4.79

Sample: 259976 - Cell 19 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 79285
Prep Batch: 67269

Analytical Method: S 8015 D
Date Analyzed: 2011-03-10
Sample Preparation: 2011-03-10

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	J	22.9	<50.6	<15.9	mg/Kg	1	15.9	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		94.1	mg/Kg	1	100	94	70 - 130

Sample: 259976 - Cell 19 (0-1')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 79538
Prep Batch: 67492

Analytical Method: S 8015 D
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	⁴ U	<2.26	<10.1	<2.26	mg/Kg	5	2.26	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.66	mg/Kg	5	2.00	83	70 - 130
4-Bromofluorobenzene (4-BFB)		1.79	mg/Kg	5	2.00	90	70 - 130

Sample: 259977 - Cell 20 (0-1')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 79537
Prep Batch: 67492

Analytical Method: S 8021B
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

⁴Sample dilution necessitated due to the presence of surfactants in sample.

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	⁵ U	<0.0170	<0.101	<0.0170	mg/Kg	5	0.0170	0.02	0.00335
Toluene	U	<0.0238	<0.101	<0.0238	mg/Kg	5	0.0238	0.02	0.00471
Ethylbenzene	U	<0.0223	<0.101	<0.0223	mg/Kg	5	0.0223	0.02	0.0044
Xylene	U	<0.0282	<0.101	<0.0282	mg/Kg	5	0.0282	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.66	mg/Kg	5	2.00	83	70 - 112
4-Bromofluorobenzene (4-BFB)		2.10	mg/Kg	5	2.00	105	72.7 - 114

Sample: 259977 - Cell 20 (0-1')

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67286 Sample Preparation: 2011-03-11 Prepared By: AR

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	10.2	<50.5	<0.233	mg/Kg	5	0.233	10	0.046

Sample: 259977 - Cell 20 (0-1')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 79333 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67312 Sample Preparation: 2011-03-14 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		1.24	%	1	0

Sample: 259977 - Cell 20 (0-1')

Laboratory: Lubbock
 Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
 QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS
 Prep Batch: 67384 Sample Preparation: 2011-03-16 Prepared By: DS

⁵Sample dilution necessitated due to the presence of surfactants in sample.

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Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		104	104	<4.85	mg/Kg	1	4.85	10	4.79

Sample: 259977 - Cell 20 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 79285
Prep Batch: 67269

Analytical Method: S 8015 D
Date Analyzed: 2011-03-10
Sample Preparation: 2011-03-10

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	J	24.2	<50.6	<15.9	mg/Kg	1	15.9	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		96.0	mg/Kg	1	100	96	70 - 130

Sample: 259977 - Cell 20 (0-1')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 79538
Prep Batch: 67492

Analytical Method: S 8015 D
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	⁶ U	<2.26	<10.1	<2.26	mg/Kg	5	2.26	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.58	mg/Kg	5	2.00	79	70 - 130
4-Bromofluorobenzene (4-BFB)		1.74	mg/Kg	5	2.00	87	70 - 130

Sample: 259978 - Cell 21 (0-1')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 79537
Prep Batch: 67492

Analytical Method: S 8021B
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

⁶Sample dilution necessitated due to the presence of surfactants in sample.

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	⁷ U	<0.0169	<0.101	<0.0169	mg/Kg	5	0.0169	0.02	0.00335
Toluene	U	<0.0238	<0.101	<0.0238	mg/Kg	5	0.0238	0.02	0.00471
Ethylbenzene	U	<0.0222	<0.101	<0.0222	mg/Kg	5	0.0222	0.02	0.0044
Xylene	U	<0.0281	<0.101	<0.0281	mg/Kg	5	0.0281	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.55	mg/Kg	5	2.00	78	70 - 112
4-Bromofluorobenzene (4-BFB)		1.90	mg/Kg	5	2.00	95	72.7 - 114

Sample: 259978 - Cell 21 (0-1')

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67286 Sample Preparation: 2011-03-11 Prepared By: AR

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	5.96	<50.5	<0.232	mg/Kg	5	0.232	10	0.046

Sample: 259978 - Cell 21 (0-1')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 79333 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67312 Sample Preparation: 2011-03-14 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		0.930	%	1	0

Sample: 259978 - Cell 21 (0-1')

Laboratory: Lubbock
 Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
 QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS
 Prep Batch: 67384 Sample Preparation: 2011-03-16 Prepared By: DS

⁷Sample dilution necessitated due to the presence of surfactants in sample.

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Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		784	784	<4.83	mg/Kg	1	4.83	10	4.79

Sample: 259978 - Cell 21 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 79293
Prep Batch: 67280

Analytical Method: S 8015 D
Date Analyzed: 2011-03-10
Sample Preparation: 2011-03-10

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO		104	104	<15.8	mg/Kg	1	15.8	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	⁸	194	mg/Kg	1	100	194	70 - 130

Sample: 259978 - Cell 21 (0-1')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 79538
Prep Batch: 67492

Analytical Method: S 8015 D
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	⁹ U	<2.25	<10.1	<2.25	mg/Kg	5	2.25	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.49	mg/Kg	5	2.00	74	70 - 130
4-Bromofluorobenzene (4-BFB)		1.78	mg/Kg	5	2.00	89	70 - 130

Sample: 259979 - Cell 25 (0-1')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 79537
Prep Batch: 67492

Analytical Method: S 8021B
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

⁸High surrogate recovery due to peak interference.

⁹Sample dilution necessitated due to the presence of surfactants in sample.

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	¹⁰ U	<0.0169	<0.101	<0.0169	mg/Kg	5	0.0169	0.02	0.00335
Toluene	U	<0.0238	<0.101	<0.0238	mg/Kg	5	0.0238	0.02	0.00471
Ethylbenzene	U	<0.0222	<0.101	<0.0222	mg/Kg	5	0.0222	0.02	0.0044
Xylene	U	<0.0281	<0.101	<0.0281	mg/Kg	5	0.0281	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.58	mg/Kg	5	2.00	79	70 - 112
4-Bromofluorobenzene (4-BFB)		1.94	mg/Kg	5	2.00	97	72.7 - 114

Sample: 259979 - Cell 25 (0-1')

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67286 Sample Preparation: 2011-03-11 Prepared By: AR

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	5.37	<50.5	<0.232	mg/Kg	5	0.232	10	0.046

Sample: 259979 - Cell 25 (0-1')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 79333 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67312 Sample Preparation: 2011-03-14 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		0.890	%	1	0

Sample: 259979 - Cell 25 (0-1')

Laboratory: Lubbock
 Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
 QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS
 Prep Batch: 67384 Sample Preparation: 2011-03-16 Prepared By: DS

¹⁰Sample dilution necessitated due to the presence of surfactants in sample.

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Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		66.2	66.2	<4.83	mg/Kg	1	4.83	10	4.79

Sample: 259979 - Cell 25 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 79293
Prep Batch: 67280

Analytical Method: S 8015 D
Date Analyzed: 2011-03-10
Sample Preparation: 2011-03-10

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	^U	<15.8	<50.4	<15.8	mg/Kg	1	15.8	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		98.3	mg/Kg	1	100	98	70 - 130

Sample: 259979 - Cell 25 (0-1')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 79538
Prep Batch: 67492

Analytical Method: S 8015 D
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	^{11 U}	<2.25	<10.1	<2.25	mg/Kg	5	2.25	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.49	mg/Kg	5	2.00	74	70 - 130
4-Bromofluorobenzene (4-BFB)		1.62	mg/Kg	5	2.00	81	70 - 130

Sample: 259980 - Cell 26 (0-1')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 79537
Prep Batch: 67492

Analytical Method: S 8021B
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

¹¹Sample dilution necessitated due to the presence of surfactants in sample.

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	¹² U	<0.0169	<0.101	<0.0169	mg/Kg	5	0.0169	0.02	0.00335
Toluene	U	<0.0237	<0.101	<0.0237	mg/Kg	5	0.0237	0.02	0.00471
Ethylbenzene	U	<0.0222	<0.101	<0.0222	mg/Kg	5	0.0222	0.02	0.0044
Xylene	U	<0.0281	<0.101	<0.0281	mg/Kg	5	0.0281	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.70	mg/Kg	5	2.00	85	70 - 112
4-Bromofluorobenzene (4-BFB)		2.03	mg/Kg	5	2.00	102	72.7 - 114

Sample: 259980 - Cell 26 (0-1')

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67286 Sample Preparation: 2011-03-11 Prepared By: AR

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	7.99	<50.5	<0.232	mg/Kg	5	0.232	10	0.046

Sample: 259980 - Cell 26 (0-1')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 79333 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67312 Sample Preparation: 2011-03-14 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		0.830	%	1	0

Sample: 259980 - Cell 26 (0-1')

Laboratory: Lubbock
 Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
 QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS
 Prep Batch: 67384 Sample Preparation: 2011-03-16 Prepared By: DS

¹²Sample dilution necessitated due to the presence of surfactants in sample.

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Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		98.8	98.8	<4.83	mg/Kg	1	4.83	10	4.79

Sample: 259980 - Cell 26 (0-1')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 79293
Prep Batch: 67280

Analytical Method: S 8015 D
Date Analyzed: 2011-03-10
Sample Preparation: 2011-03-10

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	J	30.8	<50.4	<15.8	mg/Kg	1	15.8	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		101	mg/Kg	1	100	101	70 - 130

Sample: 259980 - Cell 26 (0-1')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 79538
Prep Batch: 67492

Analytical Method: S 8015 D
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	¹³ U	<2.25	<10.1	<2.25	mg/Kg	5	2.25	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.64	mg/Kg	5	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)		1.72	mg/Kg	5	2.00	86	70 - 130

Method Blank (1)

QC Batch: 79285
Prep Batch: 67269

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

Analyzed By: kg
Prepared By: kg

¹³Sample dilution necessitated due to the presence of surfactants in sample.

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Parameter	Flag	Result	Units	Reporting Limits
DRO		<15.7	mg/Kg	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		106	mg/Kg	1	100	106	70 - 130

Method Blank (1)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67280 QC Preparation: 2011-03-10 Prepared By: kg

Parameter	Flag	Result	Units	Reporting Limits
DRO		<15.7	mg/Kg	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		107	mg/Kg	1	100	107	70 - 130

Method Blank (1)

QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67286 QC Preparation: 2011-03-11 Prepared By: AR

Parameter	Flag	Result	Units	Reporting Limits
Chloride		1.08	mg/Kg	0.046

Method Blank (1)

QC Batch: 79388 Date Analyzed: 2011-03-15 Analyzed By: ME
Prep Batch: 67358 QC Preparation: 2011-03-15 Prepared By: ME

Parameter	Flag	Result	Units	Reporting Limits
Benzene		<0.0118	mg/Kg	0.0118
Toluene		<0.00600	mg/Kg	0.006
Ethylbenzene		<0.00850	mg/Kg	0.0085
Xylene		<0.00613	mg/Kg	0.00613

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.88	mg/Kg	1	2.00	94	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.72	mg/Kg	1	2.00	86	55.4 - 124

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Method Blank (1)

QC Batch: 79389
Prep Batch: 67358

Date Analyzed: 2011-03-15
QC Preparation: 2011-03-15

Analyzed By: ME
Prepared By: ME

Parameter	Flag	Result	Units	Reporting Limits
GRO		<0.753	mg/Kg	0.753

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.65	mg/Kg	1	2.00	82	52.4 - 130

Method Blank (1)

QC Batch: 79432
Prep Batch: 67384

Date Analyzed: 2011-03-16
QC Preparation: 2011-03-16

Analyzed By: DS
Prepared By: DS

Parameter	Flag	Result	Units	Reporting Limits
TRPHC		<4.79	mg/Kg	4.79

Method Blank (1)

QC Batch: 79537
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Parameter	Flag	Result	Units	Reporting Limits
Benzene		<0.00335	mg/Kg	0.00335
Toluene		<0.00471	mg/Kg	0.00471
Ethylbenzene		<0.00440	mg/Kg	0.0044
Xylene		<0.00557	mg/Kg	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.90	mg/Kg	1	2.00	95	70 - 112
4-Bromofluorobenzene (4-BFB)		1.85	mg/Kg	1	2.00	92	72.7 - 114

Method Blank (1)

QC Batch: 79538
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

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Parameter	Flag	Result	Units	Reporting Limits
GRO		<0.446	mg/Kg	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		1.71	mg/Kg	1	2.00	86	70 - 130

Duplicate (1) Duplicated Sample: 259995

QC Batch: 79333 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67312 QC Preparation: 2011-03-14 Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture	10.2	9.58	%	1	6	20

Laboratory Control Spike (LCS-1)

QC Batch: 79285 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67269 QC Preparation: 2011-03-10 Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	248	mg/Kg	1	250	<15.7	99	47.5 - 144.1

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
DRO	219	mg/Kg	1	250	<15.7	88	47.5 - 144.1	12	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-Tricosane	109	104	mg/Kg	1	100	109	104	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67280 QC Preparation: 2011-03-10 Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	243	mg/Kg	1	250	<15.7	97	47.5 - 144.1

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

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	278	mg/Kg	1	250	<15.7	111	47.5 - 144.1	13	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-Tricosane	110	118	mg/Kg	1	100	110	118	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 79325
Prep Batch: 67286

Date Analyzed: 2011-03-15
QC Preparation: 2011-03-11

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	27.1	mg/Kg	1	25.0	<0.0460	108	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	22.6	mg/Kg	1	25.0	<0.0460	90	90 - 110	18	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 79388
Prep Batch: 67358

Date Analyzed: 2011-03-15
QC Preparation: 2011-03-15

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.86	mg/Kg	1	2.00	<0.0118	93	81.9 - 108
Toluene	1.88	mg/Kg	1	2.00	<0.00600	94	81.9 - 107
Ethylbenzene	1.85	mg/Kg	1	2.00	<0.00850	92	78.4 - 107
Xylene	5.55	mg/Kg	1	6.00	<0.00613	92	79.1 - 107

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	1.92	mg/Kg	1	2.00	<0.0118	96	81.9 - 108	3	20
Toluene	1.94	mg/Kg	1	2.00	<0.00600	97	81.9 - 107	3	20
Ethylbenzene	1.91	mg/Kg	1	2.00	<0.00850	96	78.4 - 107	3	20
Xylene	5.79	mg/Kg	1	6.00	<0.00613	96	79.1 - 107	4	20

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

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Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.76	1.90	mg/Kg	1	2.00	88	95	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.76	1.93	mg/Kg	1	2.00	88	96	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 79389
Prep Batch: 67358

Date Analyzed: 2011-03-15
QC Preparation: 2011-03-15

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	14.2	mg/Kg	1	20.0	<0.753	71	60.9 - 95.4

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
GRO	13.8	mg/Kg	1	20.0	<0.753	69	60.9 - 95.4	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)	1.99	1.97	mg/Kg	1	2.00	100	98	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.82	1.82	mg/Kg	1	2.00	91	91	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 79432
Prep Batch: 67384

Date Analyzed: 2011-03-16
QC Preparation: 2011-03-16

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	258	mg/Kg	1	250	<4.79	103	84.3 - 122

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
TRPHC	257	mg/Kg	1	250	<4.79	103	84.3 - 122	0	

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

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Laboratory Control Spike (LCS-1)

QC Batch: 79537
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.05	mg/Kg	1	2.00	<0.00335	102	75.4 - 110
Toluene	2.01	mg/Kg	1	2.00	<0.00471	100	73.2 - 114
Ethylbenzene	1.95	mg/Kg	1	2.00	<0.00440	98	74.4 - 111
Xylene	5.92	mg/Kg	1	6.00	<0.00557	99	75.9 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.06	mg/Kg	1	2.00	<0.00335	103	75.4 - 110	0	20
Toluene	2.04	mg/Kg	1	2.00	<0.00471	102	73.2 - 114	2	20
Ethylbenzene	1.98	mg/Kg	1	2.00	<0.00440	99	74.4 - 111	2	20
Xylene	5.98	mg/Kg	1	6.00	<0.00557	100	75.9 - 113	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)	1.91	1.94	mg/Kg	1	2.00	96	97	67.6 - 113
4-Bromofluorobenzene (4-BFB)	1.82	1.84	mg/Kg	1	2.00	91	92	72 - 113

Laboratory Control Spike (LCS-1)

QC Batch: 79538
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	19.6	mg/Kg	1	20.0	<0.446	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
GRO	20.4	mg/Kg	1	20.0	<0.446	102	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)	1.91	1.89	mg/Kg	1	2.00	96	94	70 - 130
4-Bromofluorobenzene (4-BFB)	1.82	1.81	mg/Kg	1	2.00	91	90	70 - 130

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Matrix Spike (MS-1) Spiked Sample: 259888

QC Batch: 79285 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67269 QC Preparation: 2011-03-10 Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	271	mg/Kg	1	250	<15.7	108	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	230	mg/Kg	1	250	<15.7	92	11.7 - 152.3	16	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-Tricosane	110	101	mg/Kg	1	100	110	101	70 - 130

Matrix Spike (MS-1) Spiked Sample: 259995

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67280 QC Preparation: 2011-03-10 Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	262	mg/Kg	1	250	<15.7	105	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	272	mg/Kg	1	250	<15.7	109	11.7 - 152.3	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
n-Tricosane	109	107	mg/Kg	1	100	109	107	70 - 130

Matrix Spike (MS-1) Spiked Sample: 259976

QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67286 QC Preparation: 2011-03-11 Prepared By: AR

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
Chloride	¹⁴ 1350	mg/Kg	50	1380	173	86	90 - 110

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	¹⁵ 1360	mg/Kg	50	1380	173	86	90 - 110	1	20

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

Matrix Spike (MS-1) Spiked Sample: 259974

QC Batch: 79388 Date Analyzed: 2011-03-15 Analyzed By: ME
Prep Batch: 67358 QC Preparation: 2011-03-15 Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.92	mg/Kg	1	2.00	<0.0118	96	80.5 - 112
Toluene	2.00	mg/Kg	1	2.00	<0.00600	100	82.4 - 113
Ethylbenzene	2.09	mg/Kg	1	2.00	<0.00850	104	83.9 - 114
Xylene	6.30	mg/Kg	1	6.00	0.3919	98	84 - 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	1.90	mg/Kg	1	2.00	<0.0118	95	80.5 - 112	1	20
Toluene	2.01	mg/Kg	1	2.00	<0.00600	100	82.4 - 113	0	20
Ethylbenzene	2.09	mg/Kg	1	2.00	<0.00850	104	83.9 - 114	0	20
Xylene	6.30	mg/Kg	1	6.00	0.3919	98	84 - 114	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)	^{16,17} 2.44	2.42	mg/Kg	1	2	122	121	41.3 - 117
4-Bromofluorobenzene (4-BFB)	2.48	2.46	mg/Kg	1	2	124	123	35.5 - 129

Matrix Spike (MS-1) Spiked Sample: 259889

QC Batch: 79389 Date Analyzed: 2011-03-15 Analyzed By: ME
Prep Batch: 67358 QC Preparation: 2011-03-15 Prepared By: ME

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

¹⁵MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

¹⁶High surrogate recovery due to peak interference.

¹⁷High surrogate recovery due to peak interference.

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	14.4	mg/Kg	1	20.0	<0.753	72	61.8 - 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
GRO	15.1	mg/Kg	1	20.0	<0.753	76	61.8 - 114	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)	2.56	2.54	mg/Kg	1	2	128	127	50 - 162
4-Bromofluorobenzene (4-BFB)	2.43	2.39	mg/Kg	1	2	122	120	50 - 162

Matrix Spike (MS-1) Spiked Sample: 259994

QC Batch: 79432
Prep Batch: 67384

Date Analyzed: 2011-03-16
QC Preparation: 2011-03-16

Analyzed By: DS
Prepared By: DS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	363	mg/Kg	1	250	94.2	108	43 - 161

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
TRPHC	363	mg/Kg	1	250	94.2	108	43 - 161	0	

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

Matrix Spike (MS-1) Spiked Sample: 260012

QC Batch: 79537
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.96	mg/Kg	5	2.00	<0.0168	98	57.5 - 115
Toluene	1.98	mg/Kg	5	2.00	<0.0236	99	59.8 - 125
Ethylbenzene	1.94	mg/Kg	5	2.00	<0.0220	97	60.5 - 130
Xylene	5.82	mg/Kg	5	6.00	<0.0278	97	62.6 - 131

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	2.06	mg/Kg	5	2.00	<0.0168	103	57.5 - 115	5	20
Toluene	2.10	mg/Kg	5	2.00	<0.0236	105	59.8 - 125	6	20

continued . . .

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matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	2.07	mg/Kg	5	2.00	<0.0220	104	60.5 - 130	6	20
Xylene	6.19	mg/Kg	5	6.00	<0.0278	103	62.6 - 131	6	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.92	1.95	mg/Kg	5	2	96	98	59.3 - 128
4-Bromofluorobenzene (4-BFB)	1.96	1.94	mg/Kg	5	2	98	97	67.4 - 130

Matrix Spike (MS-1) Spiked Sample: 260035

QC Batch: 79538
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.7	mg/Kg	5	20.0	<2.23	84	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	17.6	mg/Kg	5	20.0	<2.23	88	70 - 130	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)	1.89	1.81	mg/Kg	5	2	94	90	70 - 130
4-Bromofluorobenzene (4-BFB)	2.09	2.04	mg/Kg	5	2	104	102	70 - 130

Standard (CCV-2)

QC Batch: 79285

Date Analyzed: 2011-03-10

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	80 - 120	2011-03-10

Standard (CCV-3)

QC Batch: 79285

Date Analyzed: 2011-03-10

Analyzed By: kg

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	226	90	80 - 120	2011-03-10

Standard (CCV-1)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	246	98	80 - 120	2011-03-10

Standard (CCV-2)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	258	103	80 - 120	2011-03-10

Standard (CCV-3)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	300	120	80 - 120	2011-03-10

Standard (ICV-1)

QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	25.0	24.6	98	90 - 110	2011-03-15

Standard (CCV-1)

QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	25.0	25.3	101	90 - 110	2011-03-15

Standard (CCV-1)

QC Batch: 79388

Date Analyzed: 2011-03-15

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0931	93	80 - 120	2011-03-15
Toluene		mg/Kg	0.100	0.0942	94	80 - 120	2011-03-15
Ethylbenzene		mg/Kg	0.100	0.0930	93	80 - 120	2011-03-15
Xylene		mg/Kg	0.300	0.278	93	80 - 120	2011-03-15

Standard (CCV-2)

QC Batch: 79388

Date Analyzed: 2011-03-15

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0979	98	80 - 120	2011-03-15
Toluene		mg/Kg	0.100	0.102	102	80 - 120	2011-03-15
Ethylbenzene		mg/Kg	0.100	0.102	102	80 - 120	2011-03-15
Xylene		mg/Kg	0.300	0.304	101	80 - 120	2011-03-15

Standard (CCV-1)

QC Batch: 79389

Date Analyzed: 2011-03-15

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.925	92	80 - 120	2011-03-15

Standard (CCV-2)

QC Batch: 79389

Date Analyzed: 2011-03-15

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.19	119	80 - 120	2011-03-15

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Standard (CCV-1)

QC Batch: 79432

Date Analyzed: 2011-03-16

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	97.1	97	80 - 120	2011-03-16

Standard (CCV-2)

QC Batch: 79432

Date Analyzed: 2011-03-16

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	96.6	97	80 - 120	2011-03-16

Standard (CCV-1)

QC Batch: 79537

Date Analyzed: 2011-03-18

Analyzed By: ER

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	80 - 120	2011-03-18
Toluene		mg/Kg	0.100	0.101	101	80 - 120	2011-03-18
Ethylbenzene		mg/Kg	0.100	0.0982	98	80 - 120	2011-03-18
Xylene		mg/Kg	0.300	0.297	99	80 - 120	2011-03-18

Standard (CCV-2)

QC Batch: 79537

Date Analyzed: 2011-03-18

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	80 - 120	2011-03-18
Toluene		mg/Kg	0.100	0.103	103	80 - 120	2011-03-18
Ethylbenzene		mg/Kg	0.100	0.0986	99	80 - 120	2011-03-18
Xylene		mg/Kg	0.300	0.302	101	80 - 120	2011-03-18

Standard (CCV-1)

QC Batch: 79538

Date Analyzed: 2011-03-18

Analyzed By: ER

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.09	109	80 - 120	2011-03-18

Standard (CCV-2)

QC Batch: 79538

Date Analyzed: 2011-03-18

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.906	91	80 - 120	2011-03-18

Laarson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to: Alexis Johnson

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 3-8-11

PO #

PROJECT LOCATION OR NAME:

LAI PROJECT #: 6-0137

PAGE 1 OF 1

LAB WORK ORDER #:

Chavcoo Landfarm

COLLECTOR: Don McInnis

[illegible]



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Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Alexis Johnson
Larson and Associates, Inc.

Report Date: March 22, 2011

P. O. Box 50685
Midland, TX, 79710

Work Order: 11030909



Project Location: NM
Project Name: Chevron Landfarm
Project Number: 6-0137

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
259993	Cell 17 (5-6')	soil	2011-03-08	09:50	2011-03-09
259994	Cell 18 (5-6')	soil	2011-03-08	09:35	2011-03-09
259995	Cell 19 (5-6')	soil	2011-03-08	09:25	2011-03-09
259996	Cell 20 (5-6')	soil	2011-03-08	09:10	2011-03-09
259997	Cell 21 (5-6')	soil	2011-03-08	10:25	2011-03-09
259998	Cell 25 (5-6')	soil	2011-03-08	10:15	2011-03-09
259999	Cell 26 (5-6')	soil	2011-03-08	10:03	2011-03-09

Comment(s)

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

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

Standard Flags

- U** - Not detected. The analyte is not detected above the SDL.
- J** - Estimated. The analyte is positively identified and the value is approximated between the SDL and MQL.
- B** - The sample contains less than ten times the concentration found in the method blank.
- JB** - The analyte is positively identified and the value is approximated between the SDL and MQL.
The sample contains less than ten times the concentration found in the method blank.
The result should be considered non-detect to the SDL.



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

Samples for project Chevron Landfarm were received by TraceAnalysis, Inc. on 2011-03-09 and assigned to work order 11030909. Samples for work order 11030909 were received intact at a temperature of 1.8 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	67492	2011-03-18 at 16:16	79537	2011-03-18 at 16:16
Chloride (IC)	E 300.0	67286	2011-03-11 at 13:49	79325	2011-03-15 at 10:58
Chloride (IC)	E 300.0	67287	2011-03-11 at 15:49	79326	2011-03-15 at 10:58
Hg, Total	S 7471 B	67375	2011-03-16 at 11:18	79435	2011-03-16 at 13:30
Hg, Total	S 7471 B	67375	2011-03-16 at 11:18	79436	2011-03-16 at 14:27
Hg, Total	S 7471 B	67450	2011-03-17 at 18:00	79525	2011-03-18 at 13:27
Moisture Content	ASTM D 2216-05	67312	2011-03-14 at 11:35	79333	2011-03-15 at 11:35
Moisture Content	ASTM D 2216-05	67312	2011-03-14 at 11:35	79335	2011-03-15 at 11:36
TPH 418.1	E 418.1	67384	2011-03-16 at 10:30	79432	2011-03-16 at 10:30
TPH DRO - NEW	S 8015 D	67280	2011-03-10 at 11:05	79293	2011-03-10 at 11:05
TPH GRO	S 8015 D	67492	2011-03-18 at 16:16	79538	2011-03-18 at 16:16

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 11030909 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

Note: All sample results are reported on a dry weight basis.

Sample: 259993 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 79537
Prep Batch: 67492

Analytical Method: S 8021B
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.00355	<0.0212	<0.00355	mg/Kg	1	0.00355	0.02	0.00335
Toluene	U	<0.00499	<0.0212	<0.00499	mg/Kg	1	0.00499	0.02	0.00471
Ethylbenzene	U	<0.00466	<0.0212	<0.00466	mg/Kg	1	0.00466	0.02	0.0044
Xylene	U	<0.00590	<0.0212	<0.00590	mg/Kg	1	0.00590	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.09	mg/Kg	1	2.00	104	70 - 112
4-Bromofluorobenzene (4-BFB)		2.11	mg/Kg	1	2.00	106	72.7 - 114

Sample: 259993 - Cell 17 (5-6')

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 79325
Prep Batch: 67286

Analytical Method: E 300.0
Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-11

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

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	6.59	<53.0	<0.244	mg/Kg	5	0.244	10	0.046

Sample: 259993 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: Hg, Total
QC Batch: 79436
Prep Batch: 67375

Analytical Method: S 7471 B
Date Analyzed: 2011-03-16
Sample Preparation: 2011-03-16

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

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Mercury	J	0.00648	<0.0265	<0.00210	mg/Kg	1	0.00210	0.025	0.00198

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Sample: 259993 - Cell 17 (5-6')

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 79333 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67312 Sample Preparation: 2011-03-14 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		5.68	%	1	0

Sample: 259993 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS
Prep Batch: 67384 Sample Preparation: 2011-03-16 Prepared By: DS

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		31.7	31.7	<5.08	mg/Kg	1	5.08	10	4.79

Sample: 259993 - Cell 17 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67280 Sample Preparation: 2011-03-10 Prepared By: kg

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	<i>U</i>	<16.6	<53.0	<16.6	mg/Kg	1	16.6	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		94.8	mg/Kg	1	100	95	70 - 130

Sample: 259993 - Cell 17 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 79538 Date Analyzed: 2011-03-18 Analyzed By: ER
Prep Batch: 67492 Sample Preparation: 2011-03-18 Prepared By: ER

Report Date: March 22, 2011
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Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	^U	<0.473	<2.12	<0.473	mg/Kg	1	0.473	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.08	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)		1.92	mg/Kg	1	2.00	96	70 - 130

Sample: 259994 - Cell 18 (5-6')

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 79537

Prep Batch: 67492

Analytical Method: S 8021B

Date Analyzed: 2011-03-18

Sample Preparation: 2011-03-18

Prep Method: S 5035

Analyzed By: ER

Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	^{1 U}	<0.0189	<0.113	<0.0189	mg/Kg	5	0.0189	0.02	0.00335
Toluene	^U	<0.0266	<0.113	<0.0266	mg/Kg	5	0.0266	0.02	0.00471
Ethylbenzene	^U	<0.0248	<0.113	<0.0248	mg/Kg	5	0.0248	0.02	0.0044
Xylene	^U	<0.0314	<0.113	<0.0314	mg/Kg	5	0.0314	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.62	mg/Kg	5	2.00	81	70 - 112
4-Bromofluorobenzene (4-BFB)		2.05	mg/Kg	5	2.00	102	72.7 - 114

Sample: 259994 - Cell 18 (5-6')

Laboratory: Midland

Analysis: Chloride (IC)

QC Batch: 79325

Prep Batch: 67286

Analytical Method: E 300.0

Date Analyzed: 2011-03-15

Sample Preparation: 2011-03-11

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	^J	12.1	<56.5	<0.260	mg/Kg	5	0.260	10	0.046

Sample: 259994 - Cell 18 (5-6')

Laboratory: Lubbock

¹Sample dilution necessitated due to the presence of surfactants in sample.

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Analysis:	Hg, Total	Analytical Method:	S 7471 B	Prep Method:	N/A
QC Batch:	79435	Date Analyzed:	2011-03-16	Analyzed By:	TP
Prep Batch:	67375	Sample Preparation:	2011-03-16	Prepared By:	TP

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Mercury	J	0.00375	<0.0282	<0.00223	mg/Kg	1	0.00223	0.025	0.00198

Sample: 259994 - Cell 18 (5-6')

Laboratory:	Midland				
Analysis:	Moisture Content	Analytical Method:	ASTM D 2216-05	Prep Method:	N/A
QC Batch:	79333	Date Analyzed:	2011-03-15	Analyzed By:	AR
Prep Batch:	67312	Sample Preparation:	2011-03-14	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		11.4	%	1	0

Sample: 259994 - Cell 18 (5-6')

Laboratory:	Lubbock				
Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	79432	Date Analyzed:	2011-03-16	Analyzed By:	DS
Prep Batch:	67384	Sample Preparation:	2011-03-16	Prepared By:	DS

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		106	106	<5.41	mg/Kg	1	5.41	10	4.79

Sample: 259994 - Cell 18 (5-6')

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	79293	Date Analyzed:	2011-03-10	Analyzed By:	kg
Prep Batch:	67280	Sample Preparation:	2011-03-10	Prepared By:	kg

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	U	<17.7	<56.4	<17.7	mg/Kg	1	17.7	50	15.7

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		97.7	mg/Kg	1	100	98	70 - 130

Sample: 259994 - Cell 18 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 79538 Date Analyzed: 2011-03-18 Analyzed By: ER
Prep Batch: 67492 Sample Preparation: 2011-03-18 Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	² U	<2.52	<11.3	<2.52	mg/Kg	5	2.52	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.54	mg/Kg	5	2.00	77	70 - 130
4-Bromofluorobenzene (4-BFB)		1.76	mg/Kg	5	2.00	88	70 - 130

Sample: 259995 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 79537 Date Analyzed: 2011-03-18 Analyzed By: ER
Prep Batch: 67492 Sample Preparation: 2011-03-18 Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.00370	<0.0221	<0.00370	mg/Kg	1	0.00370	0.02	0.00335
Toluene	U	<0.00521	<0.0221	<0.00521	mg/Kg	1	0.00521	0.02	0.00471
Ethylbenzene	U	<0.00487	<0.0221	<0.00487	mg/Kg	1	0.00487	0.02	0.0044
Xylene	U	<0.00616	<0.0221	<0.00616	mg/Kg	1	0.00616	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.89	mg/Kg	1	2.00	94	70 - 112
4-Bromofluorobenzene (4-BFB)		2.21	mg/Kg	1	2.00	110	72.7 - 114

Sample: 259995 - Cell 19 (5-6')

Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A

²Sample dilution necessitated due to the presence of surfactants in sample.

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QC Batch: 79325
Prep Batch: 67286

Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-11

Analyzed By: AR
Prepared By: AR

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	11.0	<55.0	<0.254	mg/Kg	5	0.254	10	0.046

Sample: 259995 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: Hg, Total
QC Batch: 79525
Prep Batch: 67450

Analytical Method: S 7471 B
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-17

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Mercury	J	0.00717	<0.0276	<0.00219	mg/Kg	1	0.00219	0.025	0.00198

Sample: 259995 - Cell 19 (5-6')

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 79333
Prep Batch: 67312

Analytical Method: ASTM D 2216-05
Date Analyzed: 2011-03-15
Sample Preparation: 2011-03-14

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

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		9.58	%	1	0

Sample: 259995 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 79432
Prep Batch: 67384

Analytical Method: E 418.1
Date Analyzed: 2011-03-16
Sample Preparation: 2011-03-16

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		34.1	34.1	<5.30	mg/Kg	1	5.30	10	4.79

Sample: 259995 - Cell 19 (5-6')

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Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 79293
Prep Batch: 67280

Analytical Method: S 8015 D
Date Analyzed: 2011-03-10
Sample Preparation: 2011-03-10

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	U	<17.4	<55.3	<17.4	mg/Kg	1	17.4	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		99.6	mg/Kg	1	100	100	70 - 130

Sample: 259995 - Cell 19 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 79538
Prep Batch: 67492

Analytical Method: S 8015 D
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	U	<0.493	<2.21	<0.493	mg/Kg	1	0.493	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.88	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)		1.99	mg/Kg	1	2.00	100	70 - 130

Sample: 259996 - Cell 20 (5-6')

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 79537
Prep Batch: 67492

Analytical Method: S 8021B
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.00365	<0.0218	<0.00365	mg/Kg	1	0.00365	0.02	0.00335
Toluene	U	<0.00513	<0.0218	<0.00513	mg/Kg	1	0.00513	0.02	0.00471
Ethylbenzene	U	<0.00480	<0.0218	<0.00480	mg/Kg	1	0.00480	0.02	0.0044
Xylene	U	<0.00607	<0.0218	<0.00607	mg/Kg	1	0.00607	0.02	0.00557

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.13	mg/Kg	1	2.00	106	70 - 112
4-Bromofluorobenzene (4-BFB)		2.18	mg/Kg	1	2.00	109	72.7 - 114

Sample: 259996 - Cell 20 (5-6')

Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 79326 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67287 Sample Preparation: 2011-03-11 Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	20.6	<54.5	<0.251	mg/Kg	5	0.251	10	0.046

Sample: 259996 - Cell 20 (5-6')

Laboratory: Lubbock
Analysis: Hg, Total Analytical Method: S 7471 B Prep Method: N/A
QC Batch: 79525 Date Analyzed: 2011-03-18 Analyzed By: TP
Prep Batch: 67450 Sample Preparation: 2011-03-17 Prepared By: TP

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Mercury	J	0.0116	<0.0272	<0.00216	mg/Kg	1	0.00216	0.025	0.00198

Sample: 259996 - Cell 20 (5-6')

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 79335 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67312 Sample Preparation: 2011-03-14 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		8.26	%	1	0

Sample: 259996 - Cell 20 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS

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Prep Batch: 67384

Sample Preparation: 2011-03-16

Prepared By: DS

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC	J	10.6	<10.9	<5.22	mg/Kg	1	5.22	10	4.79

Sample: 259996 - Cell 20 (5-6')

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 79293

Prep Batch: 67280

Analytical Method: S 8015 D

Date Analyzed: 2011-03-10

Sample Preparation: 2011-03-10

Prep Method: N/A

Analyzed By: kg

Prepared By: kg

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	U	<17.1	<54.5	<17.1	mg/Kg	1	17.1	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		98.6	mg/Kg	1	100	99	70 - 130

Sample: 259996 - Cell 20 (5-6')

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 79538

Prep Batch: 67492

Analytical Method: S 8015 D

Date Analyzed: 2011-03-18

Sample Preparation: 2011-03-18

Prep Method: S 5035

Analyzed By: ER

Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	U	<0.486	<2.18	<0.486	mg/Kg	1	0.486	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.13	mg/Kg	1	2.00	106	70 - 130
4-Bromofluorobenzene (4-BFB)		1.96	mg/Kg	1	2.00	98	70 - 130

Sample: 259997 - Cell 21 (5-6')

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 79537

Prep Batch: 67492

Analytical Method: S 8021B

Date Analyzed: 2011-03-18

Sample Preparation: 2011-03-18

Prep Method: S 5035

Analyzed By: ER

Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	<i>U</i>	<0.00368	<0.0220	<0.00368	mg/Kg	1	0.00368	0.02	0.00335
Toluene	<i>U</i>	<0.00518	<0.0220	<0.00518	mg/Kg	1	0.00518	0.02	0.00471
Ethylbenzene	<i>U</i>	<0.00484	<0.0220	<0.00484	mg/Kg	1	0.00484	0.02	0.0044
Xylene	<i>U</i>	<0.00612	<0.0220	<0.00612	mg/Kg	1	0.00612	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.86	mg/Kg	1	2.00	93	70 - 112
4-Bromofluorobenzene (4-BFB)		2.00	mg/Kg	1	2.00	100	72.7 - 114

Sample: 259997 - Cell 21 (5-6')

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 79326 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67287 Sample Preparation: 2011-03-11 Prepared By: AR

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	<i>J</i>	5.43	<55.0	<0.253	mg/Kg	5	0.253	10	0.046

Sample: 259997 - Cell 21 (5-6')

Laboratory: Lubbock
 Analysis: Hg, Total Analytical Method: S 7471 B Prep Method: N/A
 QC Batch: 79525 Date Analyzed: 2011-03-18 Analyzed By: TP
 Prep Batch: 67450 Sample Preparation: 2011-03-17 Prepared By: TP

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Mercury	<i>J</i>	0.00797	<0.0275	<0.00218	mg/Kg	1	0.00218	0.025	0.00198

Sample: 259997 - Cell 21 (5-6')

Laboratory: Midland
 Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
 QC Batch: 79335 Date Analyzed: 2011-03-15 Analyzed By: AR
 Prep Batch: 67312 Sample Preparation: 2011-03-14 Prepared By: AR

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sample 259997 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		9.06	%	1	0

Sample: 259997 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 79432
Prep Batch: 67384

Analytical Method: E 418.1
Date Analyzed: 2011-03-16
Sample Preparation: 2011-03-16

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC		45.7	45.7	<5.27	mg/Kg	1	5.27	10	4.79

Sample: 259997 - Cell 21 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 79293
Prep Batch: 67280

Analytical Method: S 8015 D
Date Analyzed: 2011-03-10
Sample Preparation: 2011-03-10

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

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	U	<17.3	<55.0	<17.3	mg/Kg	1	17.3	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 259997 - Cell 21 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 79538
Prep Batch: 67492

Analytical Method: S 8015 D
Date Analyzed: 2011-03-18
Sample Preparation: 2011-03-18

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

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Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	<i>U</i>	<0.490	<2.20	<0.490	mg/Kg	1	0.490	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)		1.79	mg/Kg	1	2.00	90	70 - 130

Sample: 259998 - Cell 25 (5-6')

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 79537

Prep Batch: 67492

Analytical Method: S 8021B

Date Analyzed: 2011-03-18

Sample Preparation: 2011-03-18

Prep Method: S 5035

Analyzed By: ER

Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	<i>U</i>	<0.00376	<0.0224	<0.00376	mg/Kg	1	0.00376	0.02	0.00335
Toluene	<i>U</i>	<0.00528	<0.0224	<0.00528	mg/Kg	1	0.00528	0.02	0.00471
Ethylbenzene	<i>U</i>	<0.00493	<0.0224	<0.00493	mg/Kg	1	0.00493	0.02	0.0044
Xylene	<i>U</i>	<0.00624	<0.0224	<0.00624	mg/Kg	1	0.00624	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.11	mg/Kg	1	2.00	106	70 - 112
4-Bromofluorobenzene (4-BFB)		2.18	mg/Kg	1	2.00	109	72.7 - 114

Sample: 259998 - Cell 25 (5-6')

Laboratory: Midland

Analysis: Chloride (IC)

QC Batch: 79326

Prep Batch: 67287

Analytical Method: E 300.0

Date Analyzed: 2011-03-15

Sample Preparation: 2011-03-11

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	<i>J</i>	50.7	<56.0	<0.258	mg/Kg	5	0.258	10	0.046

Sample: 259998 - Cell 25 (5-6')

Laboratory: Lubbock

Analysis: Hg, Total

Analytical Method: S 7471 B

Prep Method: N/A

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QC Batch: 79525 Date Analyzed: 2011-03-18 Analyzed By: TP
Prep Batch: 67450 Sample Preparation: 2011-03-17 Prepared By: TP

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Mercury	J	0.00467	<0.0280	<0.00222	mg/Kg	1	0.00222	0.025	0.00198

Sample: 259998 - Cell 25 (5-6')

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 79335 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67312 Sample Preparation: 2011-03-14 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		10.8	%	1	0

Sample: 259998 - Cell 25 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS
Prep Batch: 67384 Sample Preparation: 2011-03-16 Prepared By: DS

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC	J	7.11	<11.2	<5.37	mg/Kg	1	5.37	10	4.79

Sample: 259998 - Cell 25 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67280 Sample Preparation: 2011-03-10 Prepared By: kg

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	U	<17.6	<56.0	<17.6	mg/Kg	1	17.6	50	15.7

continued ...

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	³	139	mg/Kg	1	100	139	70 - 130

Sample: 259998 - Cell 25 (5-6')

Laboratory: Lubbock
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 79538 Date Analyzed: 2011-03-18 Analyzed By: ER
 Prep Batch: 67492 Sample Preparation: 2011-03-18 Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	^U	<0.500	<2.24	<0.500	mg/Kg	1	0.500	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.14	mg/Kg	1	2.00	107	70 - 130
4-Bromofluorobenzene (4-BFB)		1.98	mg/Kg	1	2.00	99	70 - 130

Sample: 259999 - Cell 26 (5-6')

Laboratory: Lubbock
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
 QC Batch: 79537 Date Analyzed: 2011-03-18 Analyzed By: ER
 Prep Batch: 67492 Sample Preparation: 2011-03-18 Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	^U	<0.00375	<0.0224	<0.00375	mg/Kg	1	0.00375	0.02	0.00335
Toluene	^U	<0.00527	<0.0224	<0.00527	mg/Kg	1	0.00527	0.02	0.00471
Ethylbenzene	^U	<0.00493	<0.0224	<0.00493	mg/Kg	1	0.00493	0.02	0.0044
Xylene	^U	<0.00624	<0.0224	<0.00624	mg/Kg	1	0.00624	0.02	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.17	mg/Kg	1	2.00	108	70 - 112
4-Bromofluorobenzene (4-BFB)		2.26	mg/Kg	1	2.00	113	72.7 - 114

Sample: 259999 - Cell 26 (5-6')

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

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Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 79326 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67287 Sample Preparation: 2011-03-11 Prepared By: AR

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	5.64	<56.0	<0.258	mg/Kg	5	0.258	10	0.046

Sample: 259999 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: Hg, Total Analytical Method: S 7471 B Prep Method: N/A
QC Batch: 79525 Date Analyzed: 2011-03-18 Analyzed By: TP
Prep Batch: 67450 Sample Preparation: 2011-03-17 Prepared By: TP

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Mercury	J	0.00312	<0.0280	<0.00222	mg/Kg	1	0.00222	0.025	0.00198

Sample: 259999 - Cell 26 (5-6')

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 79335 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67312 Sample Preparation: 2011-03-14 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Moisture		10.7	%	1	0

Sample: 259999 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS
Prep Batch: 67384 Sample Preparation: 2011-03-16 Prepared By: DS

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
TRPHC	U	<5.36	<11.2	<5.36	mg/Kg	1	5.36	10	4.79

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Sample: 259999 - Cell 26 (5-6')

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67280 Sample Preparation: 2011-03-10 Prepared By: kg

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	U	<17.6	<56.0	<17.6	mg/Kg	1	17.6	50	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 259999 - Cell 26 (5-6')

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 79538 Date Analyzed: 2011-03-18 Analyzed By: ER
Prep Batch: 67492 Sample Preparation: 2011-03-18 Prepared By: ER

Parameter	Flag	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
GRO	U	<0.499	<2.24	<0.499	mg/Kg	1	0.499	2	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.19	mg/Kg	1	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)		2.04	mg/Kg	1	2.00	102	70 - 130

Method Blank (1)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67280 QC Preparation: 2011-03-10 Prepared By: kg

Parameter	Flag	Result	Units	Reporting Limits
DRO		<15.7	mg/Kg	15.7

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		107	mg/Kg	1	100	107	70 - 130

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Method Blank (1)

QC Batch: 79325
Prep Batch: 67286

Date Analyzed: 2011-03-15
QC Preparation: 2011-03-11

Analyzed By: AR
Prepared By: AR

Parameter	Flag	Result	Units	Reporting Limits
Chloride		1.08	mg/Kg	0.046

Method Blank (1)

QC Batch: 79326
Prep Batch: 67287

Date Analyzed: 2011-03-15
QC Preparation: 2011-03-11

Analyzed By: AR
Prepared By: AR

Parameter	Flag	Result	Units	Reporting Limits
Chloride		1.01	mg/Kg	0.046

Method Blank (1)

QC Batch: 79432
Prep Batch: 67384

Date Analyzed: 2011-03-16
QC Preparation: 2011-03-16

Analyzed By: DS
Prepared By: DS

Parameter	Flag	Result	Units	Reporting Limits
TRPHC		<4.79	mg/Kg	4.79

Method Blank (1)

QC Batch: 79435
Prep Batch: 67375

Date Analyzed: 2011-03-16
QC Preparation: 2011-03-16

Analyzed By: TP
Prepared By: TP

Parameter	Flag	Result	Units	Reporting Limits
Total Mercury		<0.00198	mg/Kg	0.00198

Method Blank (1)

QC Batch: 79436
Prep Batch: 67375

Date Analyzed: 2011-03-16
QC Preparation: 2011-03-16

Analyzed By: TP
Prepared By: TP

Parameter	Flag	Result	Units	Reporting Limits
Total Mercury		<0.00198	mg/Kg	0.00198

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Method Blank (1)

QC Batch: 79525
Prep Batch: 67450

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-17

Analyzed By: TP
Prepared By: TP

Parameter	Flag	Result	Units	Reporting Limits
Total Mercury		<0.00198	mg/Kg	0.00198

Method Blank (1)

QC Batch: 79537
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Parameter	Flag	Result	Units	Reporting Limits
Benzene		<0.00335	mg/Kg	0.00335
Toluene		<0.00471	mg/Kg	0.00471
Ethylbenzene		<0.00440	mg/Kg	0.0044
Xylene		<0.00557	mg/Kg	0.00557

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.90	mg/Kg	1	2.00	95	70 - 112
4-Bromofluorobenzene (4-BFB)		1.85	mg/Kg	1	2.00	92	72.7 - 114

Method Blank (1)

QC Batch: 79538
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Parameter	Flag	Result	Units	Reporting Limits
GRO		<0.446	mg/Kg	0.446

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		1.71	mg/Kg	1	2.00	86	70 - 130

Duplicate (1) Duplicated Sample: 259995

QC Batch: 79333
Prep Batch: 67312

Date Analyzed: 2011-03-15
QC Preparation: 2011-03-14

Analyzed By: AR
Prepared By: AR

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Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture	10.2	9.58	%	1	6	20

Duplicate (1) Duplicated Sample: 260012

QC Batch: 79335 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67312 QC Preparation: 2011-03-14 Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Moisture	4.85	5.18	%	1	7	20

Laboratory Control Spike (LCS-1)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg
Prep Batch: 67280 QC Preparation: 2011-03-10 Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	243	mg/Kg	1	250	<15.7	97	47.5 - 144.1

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
DRO	278	mg/Kg	1	250	<15.7	111	47.5 - 144.1	13	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-Tricosane	110	118	mg/Kg	1	100	110	118	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67286 QC Preparation: 2011-03-11 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	27.1	mg/Kg	1	25.0	<0.0460	108	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	22.6	mg/Kg	1	25.0	<0.0460	90	90 - 110	18	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 79326
Prep Batch: 67287

Date Analyzed: 2011-03-15
QC Preparation: 2011-03-11

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	23.0	mg/Kg	1	25.0	<0.0460	92	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	22.5	mg/Kg	1	25.0	<0.0460	90	90 - 110	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 79432
Prep Batch: 67384

Date Analyzed: 2011-03-16
QC Preparation: 2011-03-16

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	258	mg/Kg	1	250	<4.79	103	84.3 - 122

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
TRPHC	257	mg/Kg	1	250	<4.79	103	84.3 - 122	0	

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

Laboratory Control Spike (LCS-1)

QC Batch: 79435
Prep Batch: 67375

Date Analyzed: 2011-03-16
QC Preparation: 2011-03-16

Analyzed By: TP
Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.247	mg/Kg	1	0.250	<0.00198	99	80 - 120

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.256	mg/Kg	1	0.250	<0.00198	102	80 - 120	4	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 79436
Prep Batch: 67375

Date Analyzed: 2011-03-16
QC Preparation: 2011-03-16

Analyzed By: TP
Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.247	mg/Kg	1	0.250	<0.00198	99	80 - 120

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.256	mg/Kg	1	0.250	<0.00198	102	80 - 120	4	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 79525
Prep Batch: 67450

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-17

Analyzed By: TP
Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.261	mg/Kg	1	0.250	<0.00198	104	80 - 120

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.261	mg/Kg	1	0.250	<0.00198	104	80 - 120	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 79537
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.05	mg/Kg	1	2.00	<0.00335	102	75.4 - 110
Toluene	2.01	mg/Kg	1	2.00	<0.00471	100	73.2 - 114
Ethylbenzene	1.95	mg/Kg	1	2.00	<0.00440	98	74.4 - 111
Xylene	5.92	mg/Kg	1	6.00	<0.00557	99	75.9 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.06	mg/Kg	1	2.00	<0.00335	103	75.4 - 110	0	20

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Toluene	2.04	mg/Kg	1	2.00	<0.00471	102	73.2 - 114	2	20
Ethylbenzene	1.98	mg/Kg	1	2.00	<0.00440	99	74.4 - 111	2	20
Xylene	5.98	mg/Kg	1	6.00	<0.00557	100	75.9 - 113	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)	1.91	1.94	mg/Kg	1	2.00	96	97	67.6 - 113
4-Bromofluorobenzene (4-BFB)	1.82	1.84	mg/Kg	1	2.00	91	92	72 - 113

Laboratory Control Spike (LCS-1)

QC Batch: 79538
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	19.6	mg/Kg	1	20.0	<0.446	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
GRO	20.4	mg/Kg	1	20.0	<0.446	102	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)	1.91	1.89	mg/Kg	1	2.00	96	94	70 - 130
4-Bromofluorobenzene (4-BFB)	1.82	1.81	mg/Kg	1	2.00	91	90	70 - 130

Matrix Spike (MS-1) Spiked Sample: 259995

QC Batch: 79293
Prep Batch: 67280

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

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	262	mg/Kg	1	250	<15.7	105	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	272	mg/Kg	1	250	<15.7	109	11.7 - 152.3	4	20

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

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Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	109	107	mg/Kg	1	100	109	107	70 - 130

Matrix Spike (MS-1) Spiked Sample: 259976

QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67286 QC Preparation: 2011-03-11 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	⁴ 1350	mg/Kg	50	1380	173	86	90 - 110

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	⁵ 1360	mg/Kg	50	1380	173	86	90 - 110	1	20

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

Matrix Spike (MS-1) Spiked Sample: 260012

QC Batch: 79326 Date Analyzed: 2011-03-15 Analyzed By: AR
Prep Batch: 67287 QC Preparation: 2011-03-11 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	178	mg/Kg	5	138	36.8	103	90 - 110

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	179	mg/Kg	5	138	36.8	103	90 - 110	1	20

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

Matrix Spike (MS-1) Spiked Sample: 259994

QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS
Prep Batch: 67384 QC Preparation: 2011-03-16 Prepared By: DS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	363	mg/Kg	1	250	94.2	108	43 - 161

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

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

⁵MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC	363	mg/Kg	1	250	94.2	108	43 - 161	0	

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

Matrix Spike (MS-1) Spiked Sample: 259994

QC Batch: 79435 Date Analyzed: 2011-03-16 Analyzed By: TP
Prep Batch: 67375 QC Preparation: 2011-03-16 Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.246	mg/Kg	1	0.250	0.00332	97	80 - 120

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.254	mg/Kg	1	0.250	0.00332	100	80 - 120	3	20

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

Matrix Spike (MS-1) Spiked Sample: 259993

QC Batch: 79436 Date Analyzed: 2011-03-16 Analyzed By: TP
Prep Batch: 67375 QC Preparation: 2011-03-16 Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.258	mg/Kg	1	0.250	0.00611	101	80 - 120

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.248	mg/Kg	1	0.250	0.00611	97	80 - 120	4	20

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

Matrix Spike (MS-1) Spiked Sample: 259995

QC Batch: 79525 Date Analyzed: 2011-03-18 Analyzed By: TP
Prep Batch: 67450 QC Preparation: 2011-03-17 Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.267	mg/Kg	1	0.250	0.00648	104	80 - 120

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

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6-0137

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.261	mg/Kg	1	0.250	0.00648	102	80 - 120	2	20

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

Matrix Spike (MS-1) Spiked Sample: 260012

QC Batch: 79537
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.96	mg/Kg	5	2.00	<0.0168	98	57.5 - 115
Toluene	1.98	mg/Kg	5	2.00	<0.0236	99	59.8 - 125
Ethylbenzene	1.94	mg/Kg	5	2.00	<0.0220	97	60.5 - 130
Xylene	5.82	mg/Kg	5	6.00	<0.0278	97	62.6 - 131

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	2.06	mg/Kg	5	2.00	<0.0168	103	57.5 - 115	5	20
Toluene	2.10	mg/Kg	5	2.00	<0.0236	105	59.8 - 125	6	20
Ethylbenzene	2.07	mg/Kg	5	2.00	<0.0220	104	60.5 - 130	6	20
Xylene	6.19	mg/Kg	5	6.00	<0.0278	103	62.6 - 131	6	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.92	1.95	mg/Kg	5	2	96	98	59.3 - 128
4-Bromofluorobenzene (4-BFB)	1.96	1.94	mg/Kg	5	2	98	97	67.4 - 130

Matrix Spike (MS-1) Spiked Sample: 260035

QC Batch: 79538
Prep Batch: 67492

Date Analyzed: 2011-03-18
QC Preparation: 2011-03-18

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.7	mg/Kg	5	20.0	<2.23	84	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	17.6	mg/Kg	5	20.0	<2.23	88	70 - 130	5	20

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

Report Date: March 22, 2011
6-0137

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Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.89	1.81	mg/Kg	5	2	94	90	70 - 130
4-Bromofluorobenzene (4-BFB)	2.09	2.04	mg/Kg	5	2	104	102	70 - 130

Standard (CCV-1)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	246	98	80 - 120	2011-03-10

Standard (CCV-2)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	258	103	80 - 120	2011-03-10

Standard (CCV-3)

QC Batch: 79293 Date Analyzed: 2011-03-10 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	300	120	80 - 120	2011-03-10

Standard (ICV-1)

QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	25.0	24.6	98	90 - 110	2011-03-15

Standard (CCV-1)

QC Batch: 79325 Date Analyzed: 2011-03-15 Analyzed By: AR

Report Date: March 22, 2011
6-0137

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	25.0	25.3	101	90 - 110	2011-03-15

Standard (ICV-1)

QC Batch: 79326 Date Analyzed: 2011-03-15 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	25.0	25.3	101	90 - 110	2011-03-15

Standard (CCV-1)

QC Batch: 79326 Date Analyzed: 2011-03-15 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	25.0	26.2	105	90 - 110	2011-03-15

Standard (CCV-2)

QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	96.6	97	80 - 120	2011-03-16

Standard (CCV-3)

QC Batch: 79432 Date Analyzed: 2011-03-16 Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	97.2	97	80 - 120	2011-03-16

Standard (ICV-1)

QC Batch: 79435 Date Analyzed: 2011-03-16 Analyzed By: TP

Report Date: March 22, 2011
6-0137

Work Order: 11030909
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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.0100	0.00993	99	90 - 110	2011-03-16

Standard (CCV-1)

QC Batch: 79435

Date Analyzed: 2011-03-16

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.0100	0.0103	103	80 - 120	2011-03-16

Standard (ICV-1)

QC Batch: 79436

Date Analyzed: 2011-03-16

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.0100	0.00993	99	90 - 110	2011-03-16

Standard (CCV-1)

QC Batch: 79436

Date Analyzed: 2011-03-16

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.0100	0.00970	97	80 - 120	2011-03-16

Standard (ICV-1)

QC Batch: 79525

Date Analyzed: 2011-03-18

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.0100	0.00988	99	90 - 110	2011-03-18

Standard (CCV-1)

QC Batch: 79525

Date Analyzed: 2011-03-18

Analyzed By: TP

Report Date: March 22, 2011
6-0137

Work Order: 11030909
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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.0100	0.0102	102	80 - 120	2011-03-18

Standard (CCV-2)

QC Batch: 79537

Date Analyzed: 2011-03-18

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	80 - 120	2011-03-18
Toluene		mg/Kg	0.100	0.103	103	80 - 120	2011-03-18
Ethylbenzene		mg/Kg	0.100	0.0986	99	80 - 120	2011-03-18
Xylene		mg/Kg	0.300	0.302	101	80 - 120	2011-03-18

Standard (CCV-3)

QC Batch: 79537

Date Analyzed: 2011-03-18

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.103	103	80 - 120	2011-03-18
Toluene		mg/Kg	0.100	0.103	103	80 - 120	2011-03-18
Ethylbenzene		mg/Kg	0.100	0.0987	99	80 - 120	2011-03-18
Xylene		mg/Kg	0.300	0.300	100	80 - 120	2011-03-18

Standard (CCV-2)

QC Batch: 79538

Date Analyzed: 2011-03-18

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.906	91	80 - 120	2011-03-18

Standard (CCV-3)

QC Batch: 79538

Date Analyzed: 2011-03-18

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.942	94	80 - 120	2011-03-18

Laboratory Analysis Report

Total Number of Pages: 12

Job ID : 11030592



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
11030909 / New Mexico

Report To : Client Name: Trace Analysis, Inc.
Attn: Liz Givens
Client Address: 6701 Aberdeen Ave
City, State, Zip: Lubbock, Texas, 79424

P.O.#.:
Sample Collected By:
Date Collected: 03/08/11

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
259993-3	Soil	11030592.01
259994-3	Soil	11030592.02
259995-3	Soil	11030592.03
259996-3	Soil	11030592.04
259997-3	Soil	11030592.05
259998-3	Soil	11030592.06
259999-3	Soil	11030592.07

A handwritten signature in black ink, appearing to read 'John Cady'.

Released By: John Cady
Title: Customer Service
Date: 03/17/2011



This Laboratory is NELAP (T104704213-10-2) accredited. Effective: 07/01/2010; Expires: 06/30/2011

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted.

Date Received : 03/14/2011 11:50

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 11030592

Date: 3/17/2011

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition



LABORATORY TEST RESULTS

Job ID : 11030592

Date 3/17/2011

Client Name: Trace Analysis, Inc.

Attn: Liz Givens

Project Name: 11030909 / New Mexico

Client Sample ID: 259993-3

Job Sample ID: 11030592.01

Date Collected: 03/08/11

Sample Matrix: Soil

Time Collected: 09:50

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6020A	Metals by ICP/MS								
	Arsenic	3.2	mg/Kg	1	0.3			03/15/11 13:37	SS
	Barium	242	mg/Kg	1	0.3			03/15/11 13:37	SS
	Cadmium	BRL	mg/Kg	1	0.3			03/15/11 13:37	SS
	Chromium	3.7	mg/Kg	1	0.3			03/15/11 13:37	SS
	Copper	4.6	mg/Kg	1	0.3			03/15/11 13:37	SS
	Iron	2740	mg/Kg	1	35			03/15/11 13:37	SS
	Lead	2.9	mg/Kg	1	0.3			03/15/11 13:37	SS
	Selenium	BRL	mg/Kg	1	0.3			03/15/11 13:37	SS
	Silver	BRL	mg/Kg	1	0.3			03/15/11 13:37	SS
	Zinc	11.3	mg/Kg	1	1.2			03/15/11 13:37	SS



LABORATORY TEST RESULTS

Job ID : 11030592

Date 3/17/2011

Client Name: Trace Analysis, Inc.

Attn: Liz Givens

Project Name: 11030909 / New Mexico

Client Sample ID: 259994-3

Job Sample ID: 11030592.02

Date Collected: 03/08/11

Sample Matrix Soil

Time Collected: 09:35

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6020A	Metals by ICP/MS								
	Arsenic	3.8	mg/Kg	1	0.3			03/15/11 14:02	SS
	Barium	602	mg/Kg	10	3.0			03/15/11 16:34	SS
	Cadmium	BRL	mg/Kg	1	0.3			03/15/11 14:02	SS
	Chromium	3.1	mg/Kg	1	0.3			03/15/11 14:02	SS
	Copper	2.0	mg/Kg	1	0.3			03/15/11 14:02	SS
	Iron	2060	mg/Kg	1	34			03/15/11 14:02	SS
	Lead	1.7	mg/Kg	1	0.3			03/15/11 14:02	SS
	Selenium	BRL	mg/Kg	1	0.3			03/15/11 14:02	SS
	Silver	BRL	mg/Kg	1	0.3			03/15/11 14:02	SS
	Zinc	7.2	mg/Kg	1	1.1			03/15/11 14:02	SS



LABORATORY TEST RESULTS

Job ID : 11030592

Date 3/17/2011

Client Name: Trace Analysis, Inc.

Attn: Liz Givens

Project Name: 11030909 / New Mexico

Client Sample ID: 259995-3

Job Sample ID: 11030592.03

Date Collected: 03/08/11

Sample Matrix: Soil

Time Collected: 09:25

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6020A	Metals by ICP/MS								
	Arsenic	3.5	mg/Kg	1	0.3			03/15/11 14:08	SS
	Barium	359	mg/Kg	1	0.3			03/15/11 14:08	SS
	Cadmium	BRL	mg/Kg	1	0.3			03/15/11 14:08	SS
	Chromium	3.1	mg/Kg	1	0.3			03/15/11 14:08	SS
	Copper	2.9	mg/Kg	1	0.3			03/15/11 14:08	SS
	Iron	2010	mg/Kg	1	31			03/15/11 14:08	SS
	Lead	1.8	mg/Kg	1	0.3			03/15/11 14:08	SS
	Selenium	BRL	mg/Kg	1	0.3			03/15/11 14:08	SS
	Silver	BRL	mg/Kg	1	0.3			03/15/11 14:08	SS
	Zinc	7.6	mg/Kg	1	1.0			03/15/11 14:08	SS

**LABORATORY TEST RESULTS**

Job ID : 11030592

Date 3/17/2011

Client Name: Trace Analysis, Inc.

Attn: Liz Givens

Project Name: 11030909 / New Mexico

Client Sample ID: 259996-3

Job Sample ID: 11030592.04

Date Collected: 03/08/11

Sample Matrix: Soil

Time Collected: 09:10

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6020A	Metals by ICP/MS								
	Arsenic	3.0	mg/Kg	1	0.3			03/15/11 14:15	SS
	Barium	159	mg/Kg	1	0.3			03/15/11 14:15	SS
	Cadmium	BRL	mg/Kg	1	0.3			03/15/11 14:15	SS
	Chromium	3.1	mg/Kg	1	0.3			03/15/11 14:15	SS
	Copper	2.8	mg/Kg	1	0.3			03/15/11 14:15	SS
	Iron	2300	mg/Kg	1	32			03/15/11 14:15	SS
	Lead	2.0	mg/Kg	1	0.3			03/15/11 14:15	SS
	Selenium	BRL	mg/Kg	1	0.3			03/15/11 14:15	SS
	Silver	BRL	mg/Kg	1	0.3			03/15/11 14:15	SS
	Zinc	7.9	mg/Kg	1	1.1			03/15/11 14:15	SS

**LABORATORY TEST RESULTS**

Job ID : 11030592

Date 3/17/2011

Client Name: Trace Analysis, Inc.

Attn: Liz Givens

Project Name: 11030909 / New Mexico

Client Sample ID: 259997-3

Job Sample ID: 11030592.05

Date Collected: 03/08/11

Sample Matrix Soil

Time Collected: 10:25

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6020A	Metals by ICP/MS								
	Arsenic	3.6	mg/Kg	1	0.3			03/15/11 16:15	SS
	Barium	366	mg/Kg	1	0.3			03/15/11 16:15	SS
	Cadmium	BRL	mg/Kg	1	0.3			03/15/11 16:15	SS
	Chromium	3.0	mg/Kg	1	0.3			03/15/11 16:15	SS
	Copper	2.2	mg/Kg	1	0.3			03/15/11 16:15	SS
	Iron	1870	mg/Kg	1	31			03/15/11 16:15	SS
	Lead	2.1	mg/Kg	1	0.3			03/15/11 16:15	SS
	Selenium	BRL	mg/Kg	1	0.3			03/15/11 16:15	SS
	Silver	BRL	mg/Kg	1	0.3			03/15/11 16:15	SS
	Zinc	8.0	mg/Kg	1	1.0			03/15/11 16:15	SS



LABORATORY TEST RESULTS

Job ID : 11030592

Date 3/17/2011

Client Name: Trace Analysis, Inc.

Attn: Liz Givens

Project Name: 11030909 / New Mexico

Client Sample ID: 259998-3

Job Sample ID: 11030592.06

Date Collected: 03/08/11

Sample Matrix: Soil

Time Collected: 10:15

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6020A	Metals by ICP/MS								
	Arsenic	2.6	mg/Kg	1	0.3			03/15/11 16:22	SS
	Barium	98	mg/Kg	1	0.3			03/15/11 16:22	SS
	Cadmium	BRL	mg/Kg	1	0.3			03/15/11 16:22	SS
	Chromium	4.1	mg/Kg	1	0.3			03/15/11 16:22	SS
	Copper	2.2	mg/Kg	1	0.3			03/15/11 16:22	SS
	Iron	3050	mg/Kg	1	33			03/15/11 16:22	SS
	Lead	2.6	mg/Kg	1	0.3			03/15/11 16:22	SS
	Selenium	BRL	mg/Kg	1	0.3			03/15/11 16:22	SS
	Silver	BRL	mg/Kg	1	0.3			03/15/11 16:22	SS
	Zinc	9.3	mg/Kg	1	1.1			03/15/11 16:22	SS



LABORATORY TEST RESULTS

Job ID : 11030592

Date 3/17/2011

Client Name: Trace Analysis, Inc.

Attn: Liz Givens

Project Name: 11030909 / New Mexico

Client Sample ID: 259999-3

Job Sample ID: 11030592.07

Date Collected: 03/08/11

Sample Matrix: Soil

Time Collected: 10:03

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6020A	Metals by ICP/MS								
	Arsenic	2.2	mg/Kg	1	0.3			03/15/11 16:28	SS
	Barium	189.1	mg/Kg	1	0.3			03/15/11 16:28	SS
	Cadmium	BRL	mg/Kg	1	0.3			03/15/11 16:28	SS
	Chromium	2.2	mg/Kg	1	0.3			03/15/11 16:28	SS
	Copper	1.3	mg/Kg	1	0.3			03/15/11 16:28	SS
	Iron	1470	mg/Kg	1	31			03/15/11 16:28	SS
	Lead	1.1	mg/Kg	1	0.3			03/15/11 16:28	SS
	Selenium	BRL	mg/Kg	1	0.3			03/15/11 16:28	SS
	Silver	BRL	mg/Kg	1	0.3			03/15/11 16:28	SS
	Zinc	5.3	mg/Kg	1	1.0			03/15/11 16:28	SS

QUALITY CONTROL CERTIFICATE



Job ID : 11030592

Date : 3/17/2011

Analysis : Metals by ICP/MS **Method :** SW-846 6020A **Reporting Units :** mg/Kg

QC Batch ID : Qb11031569 **Created Date :** 03/15/11 **Created By :** Ssrinivasan

Samples in This QC Batch : 11030592.01,02,03,04,05,06,07

Digestion : PB11031548 **Prep Method :** SW-846 3050B **Prep Date :** 03/15/11 09:30 **Prep By :** Ssrinivasan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/Kg	1	0.3	
Barium	7440-39-3	BRL	mg/Kg	1	0.3	
Cadmium	7440-43-9	BRL	mg/Kg	1	0.3	
Chromium	7440-47-3	BRL	mg/Kg	1	0.3	
Copper	7440-50-8	BRL	mg/Kg	1	0.3	
Iron	7439-89-6	BRL	mg/Kg	1	30	
Lead	7439-92-1	BRL	mg/Kg	1	0.3	
Selenium	7782-49-2	BRL	mg/Kg	1	0.3	
Silver	7440-22-4	BRL	mg/Kg	1	0.3	
Zinc	7440-66-6	BRL	mg/Kg	1	1	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	25	25.6	102	25	25.3	101	1	20	80-120	
Barium	25	25.0	100	25	25.0	99.9	0.3	20	80-120	
Cadmium	25	25.5	102	25	25.4	102	0.1	20	80-120	
Chromium	25	25.1	100	25	25.1	100	0.3	20	80-120	
Copper	25	25.1	100	25	25.0	100	0.4	20	80-120	
Iron	2500	2515.0	101	2500	2518.0	101	0.1	20	80-120	
Lead	25	24.9	99.5	25	24.9	99.6	0	20	80-120	
Selenium	25	25.3	101	25	25.3	101	0.1	20	80-120	
Silver	25	25.1	100	25	24.8	99	1.4	20	80-120	
Zinc	25	25.8	103	25	25.8	103	0.1	20	80-120	

QC Type: MS and MSD

QC Sample ID: 11030592.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	3.2	25	30.6	109						75-125	
Barium	242.1	25	263.1	84						75-125	
Cadmium	BRL	25	25.5	101						75-125	
Chromium	3.7	25	28.8	101						75-125	
Copper	4.6	25	28.9	97.1						75-125	
Iron	BRL	2500	5108.0	94.9						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 11030592

Date : 3/17/2011

Analysis : Metals by ICP/MS **Method :** SW-846 6020A **Reporting Units :** mg/Kg

QC Batch ID : Qb11031569 **Created Date :** 03/15/11 **Created By :** Ssrinivasan

Samples in This QC Batch : 11030592.01,02,03,04,05,06,07

QC Type: MS and MSD

QC Sample ID: 11030592.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Lead	2.9	25	30.6	111						75-125	
Selenium	BRL	25	25.1	99.8						75-125	
Silver	BRL	25	25.5	102						75-125	
Zinc	11.3	25	33.7	89.8						75-125	

Refer to the Definition page for terms.



Sample Condition Checklist

Date : 03/17/11

A&B JobID : 11030592		Date Received : 03/14/2011		Time Received : 11:50AM	
Client Name : Trace Analysis, Inc.					
Temperature : 4.1°C		Sample pH : N/A			
	Check Points	Yes	No	N/A	
1.	Cooler seal present and signed.		X		
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.	X			
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If no comment).	X			
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other : ☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				
9.	Sample(s) were received in appropriate container(s).	X			
10.	Sample(s) were received with proper preservative	X			
11.	All samples were logged or labeled.	X			
12.	Sample ID labels match C-O-C ID's	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received within the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
Comments : Include actions taken to resolve discrepancies/problem:					

Received by : Dlopez

Check in by/date : Dlopez / 03/14/2011