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**MONITORING
REPORTS
YEAR(S):**

____2010____



January 27, 2011

RECEIVED OCD
2011 JAN 28 A 11:13

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

Re: 2010 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. Von Gonten:

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 and closure request of Surface Waste Management monitoring performed at the Chevron Landfarm for the 2010 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 'Michelle L. Green'.

Michelle L. Green
Environmental Scientist

Attachments 2010 Surface Waste Management Annual Report and Closure Request

CC Rodney Bailey, Chevron, Midland, TX
Brad Jones, NM OCD, Santa Fe, NM
Geoffrey Leking, NM OCD, Hobbs, NM

**SURFACE WASTE MANAGEMENT
REPORT AND CLOSURE REQUEST**

**Chevron Landfarm
NM-2-0012
Lea County, New Mexico**

Project No. 6-0137

January 24, 2011

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

**Prepared by:
Michelle L. Green
Environmental Scientist**

**Larson & Associates, Inc.
507 North Marienfeld, Suite 200
Midland, Texas 79701**

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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 report to the New Mexico Oil Conservation Division (OCD) for approval to close the above referenced centralized surface waste management facility (NM-2-0012).

The following activities were conducted during this year:

- Treatment Zone Sampling Event on March 26, 2010
- Vadose Zone Sampling Event on March 31, 2010
- Treatment Zone Sampling Event on June 11, 2010
- Vadose Zone Sampling Event on June 14, 2010
- Treatment and Vadose Zone Sampling Event on September 27, 2010
- Treatment Zone Sampling Event on December 20, 2010
- Vadose Zone Sampling Event on December 23, 2010

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 the Student t's – Descriptive Statistics calculations with 95% and 98% confidence levels. Vadose zone 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 each cell (Cells 17 through 21, 25 and 26) by LAI personnel on March 26, June 11, September 27 and December 20, 2010. Samples were collected from 0-1 foot depth 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
- Metals and Mercury analyses by EPA methods SW6020 and SW7471A, respectively.

3.1 March 26, 2010 Sampling Event

On March 26, 2010, LAI collected random five part soil composite samples from Cells 17 through 21, 25 and 26.

The results of the composite treatment samples (Cells 17 through 21, 25 and 26) were below the remediation standards for BTEX (50 ppm), Benzene (10 ppm), 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.

The treatment zone soil samples were analyzed for metals in accordance to subsections A and B of 20.6.23103 NMAC. The results were compared to the background sample. Cells 17 through 21, 25 and 26 were below background levels for arsenic, barium, iron, mercury, selenium, and silver.

Cell 17 was above background for cadmium (0.438 ppm), chromium (9.27 ppm), copper (4.51 ppm), lead (6.41 ppm), manganese (97.5 ppm) and zinc (21.3 ppm). Cell 18 was above background for cadmium (0.237 ppm), chromium (22.0 ppm), copper (10.7 ppm), lead (17.2 ppm), manganese (92.8 ppm) and zinc (26.4 ppm). Cell 21 was above background for cadmium (0.244 ppm), copper (4.35 ppm), lead (11.6 ppm) and zinc (24.4 ppm). Cell 25 was above background for cadmium (0.438 ppm), chromium (14.8 ppm), lead (5.27 ppm), silver (0.241 ppm) and zinc (22.9 ppm). Cell 26 was above background for cadmium (0.226 ppm), copper (4.44 ppm), lead (5.43 ppm), manganese (104 ppm) and zinc (20.9 ppm). These samples were further analyzed by the SPLP method 1312 to determine their leaching potential. A summary of the treatment zone total and SPLP metals is presented in Table 3.

The SPLP metal results demonstrate that the metal constituents reported above background concentrations did not leach at concentrations established for human health by the New Mexico WQCC in 20 NMAC 6.2.3103(A).

3.2 June 11, 2010 Sampling Event

On June 11, 2010, 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).

3.3 September 27, 2010 Sampling Event

On September 27, 2010, 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 20, 2010 Sampling Event

On December 20, 2010, 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 for the vadose zone from Cells 17, 18, 19, 20, 21, 25, and 26 were collected by LAI personnel on March 31, June 14, September 27 and December 23, 2010. The samples were collected using a jam tube and air rotary drill rig. 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 31, 2010 Sampling Event

On March 31, 2010, 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 4 to 5 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 and TRPH results of the vadose zone samples for Cells 17 through 20, 25 and 26 were below the method detection limits. TPH was detected in Cell 21 (62.3 ppm) above the established background level, but may be due to possible cross contamination with soil from the treatment zone. Table 5 present a summary of the vadose zone TPH analyses.

Arsenic (3.84 and 4.11 ppm) and barium (452 and 377 ppm) were detected above background levels for Cells 17 and 25. Barium (362 ppm) was detected in Cell 26 above the background level. The laboratory further analyzed these samples by the synthetic precipitation leaching procedure (SPLP), under EPA SW-846 method 1312, which simulates the leaching potential of inorganic compounds.

The SPLP metal results for arsenic (Cells 17 and 25) and barium (Cells 17, 25 and 26) demonstrate that the metal constituents reported above background concentrations did not leach at concentrations

established for human health by the New Mexico WQCC in 20 NMAC 6.2.3103(A). A summary of the vadose zone total and SPLP metal analyses are presented in Table 6.

Chloride was detected in Cells 17, 18, 20, and 21, which ranged from 13.7 to 134 ppm, and were 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 14, 2010 Sampling Event

On June 14, 2010, LAI personnel contracted 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, benzene, TPH and TRPH results of the vadose samples (Cells 17 through 21, 25 and 26) were below detection limits.

Arsenic was detected in Cell 18 (8.40 ppm), Cell 20 (5.05 ppm) and Cell 21 (6.02 ppm) above the established background level (3.79 ppm). Barium was detected in Cell 18 (856 ppm), Cell 20 (890 ppm), Cell 21 (765 ppm) and Cell 25 (477 ppm) above the background level. Cell 20 was above the background level for mercury (0.0182 ppm). Cell 25 exceeded background levels for chromium (11.6 ppm), iron (11,200 ppm) and lead (5.33 ppm). Cadmium was detected in Cell 26 (0.202) slightly above the background concentration.

Chloride was detected in Cells 18, 19, 20, 21, 25 and 26, which ranged from 19.4 to 85.4 ppm. The results were above the established background concentration (8.89 ppm) but below 250 ppm.

4.3 September 27, 2010 Sampling Event

On September 27, 2010, LAI personnel contracted 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, benzene, TPH and TRPH results of the vadose samples (Cells 17 through 21, 25 and 26) were below detection limits.

Arsenic was detected in Cell 19 (5.15 ppm), Cell 20 (6.89 ppm) and Cell 26 (4.11 ppm) above the established background level (3.79 ppm). Barium was detected in Cell 18 (546 ppm), Cell 19 (808 ppm), Cell 20 (300 ppm), Cell 21 (356 ppm) and Cell 26 (922 ppm) above the background level. Copper was detected in Cell 19 (17.8 ppm), Cell 25 (6.45 ppm) and Cell 26 (7.34 ppm) above the background level (4.01 ppm).

Chloride was detected in Cells 19, 20 and 21 which ranged from 6.6 to 83.3 ppm. The results were above the established background concentration (8.89 ppm) but below 250 ppm.

4.4 December 23, 2010 Sampling Event

On December 23, 2010, LAI personnel contracted 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 and TRPH results of the vadose zone samples for Cells 17, 18, 25 and 26 were below the method detection limits. TRPH was detected in Cell 21 (49.4 ppm), but was not present in the TPH analysis by EPA method 8015. This may be due to interference. TPH was detected in Cell 19 (15.9 ppm) and Cell 20 (12.8 ppm) above the established background level, but may be due to possible cross contamination with soil from the treatment zone.

Arsenic was detected in Cell 17 (4.24 ppm), Cell 19 (4.29 ppm), Cell 20 (4.42 ppm), Cell 21 (4.10 ppm) and Cell 26 (3.94 ppm) above the established background level. Barium was detected in Cell 17 (369 ppm), Cell 18 (386 ppm), Cell 20 (284 ppm), Cell 25 (649 ppm) and Cell 26 (370 ppm) above the background level. Copper was detected in Cell 19 (4.41 ppm) above the established background level (4.01 ppm).

Chloride was detected in Cells 18, 19 and 20 which ranged from 7.94 to 32.3 ppm. The results were 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 water well records from the New Mexico State Engineer 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 zone 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 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.

Vadose zone samples collected on March 31, 2010 for Cells 17, 25 and 26 had exceedance for arsenic and/or barium. The SPLP metal results demonstrate that the metal constituents reported above background concentrations did not leach at concentrations established for human health by the New Mexico WQCC in 20 NMAC 6.2.3103(A).

The background and vadose zone samples indicate that the pH at the facility is slightly basic. Depth to groundwater in this area is observed between 149 to 180 feet bgs. Monitor well boring logs from an adjacent site indicate a general lithology of an unconsolidated veneer of eolian sand over a 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 requests the OCD to discontinue tilling and grant closure for Cells 17 through 21, 25 and 26.

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 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
Cell 18	18	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
		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
		12/20/10	0 - 1	<0.00281	<0.00469	<0.00469	<0.00469	<0.00281

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 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
Cell 20	20	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
		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
Cell 21	21	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
		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

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 21	21	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
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
Cell 26	26	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

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	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

Notes:

Samples were analyzed by DHL Analytical, Inc., Round Rock, 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	
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
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
		12/20/10	0 - 1	250	<0.0955	145	145	18.0
Cell 19	19	05/21/07	0 - 1	109	<0.0597	11.7	11.7	--

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 19	19	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
Cell 20	20	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
		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
		03/25/09	0 - 1	256	<0.0540	33.1	33.1	50.9
Cell 21	21	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
		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	--

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 21	21	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
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
Cell 26	26	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
		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

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	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

Notes:

Samples were analyzed by DHL Analytical, Inc., Round Rock, 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	--	--	<0.0003	<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	--	--	<0.0003	<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	--	--	--	--	--	--	--	<0.003	--	--	--	--
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	--	--	<0.0003	--	0.00293	--	0.00086	--	--	--	--	0.00539

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	03/25/09	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
		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	--	--	<0.0003	<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	--	--	<0.0003	--	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		<0.01876
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
Cell 18	18	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
		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
		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

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):								
WQCC Level:								
10								
Cell 18	18	12/23/10	5 - 6	<0.00340	<0.00566	<0.00566	<0.00566	<0.00340
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
Cell 20	20	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
		05/22/07	2 - 3	<0.00326	<0.00543	<0.00543	<0.00543	<0.00326
		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		
50								

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	09/27/10	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
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
		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
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

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 25	25	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
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
		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

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, 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):							
WQCC Level:				500	<5.30	<0.0632	<3.1132
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
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

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	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
		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
Cell 20	20	12/23/10	5 - 6	26.8	<0.100	15.9	15.9
		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
Cell 21	21	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
		05/22/07	2 - 3	<5.73	<0.0633	<3.23	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	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
		09/27/10	5 - 6	<5.70	<0.110	<3.29	ND
Cell 25	25	12/23/10	5 - 6	49.4	<0.102	<11.1	ND
		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
Cell 26	26	09/27/10	5 - 6	<5.48	<0.107	<3.21	ND
		12/23/10	5 - 6	<5.72	<0.110	<11.1	ND
		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

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	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

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, 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):				3.79	271	0.201	9.20	4.01	8,510	4.96	<0.0145	2.77	<0.0957	19.8
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
Cell 18	18	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
		WQCC Level:												
		03/31/10	4 - 5	<0.002	0.105	--	--	<0.002	<0.05	--	--	--	--	--
		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	--
Cell 18	18	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
		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

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	09/27/10 12/23/10	5 - 6 5 - 6	2.94 4.29	271 546 386	0.201 <0.113 <0.113	9.20 2.46 2.85	4.01 1.66 2.85	8,510 1,800 2,190	4.96 1.23 1.44	<0.0145 <0.0187 <0.0174	2.77 0.366 0.263	<0.0957 <0.113 <0.113	19.8 4.81 6.88
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
Cell 20		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
		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

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 20	20	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
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
		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
WQCC Level:														
Cell 21 SPLP	21	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	--

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):				3.79	271	0.201	9.20	4.01	8,510	4.96	<0.0145	2.77	<0.0957	19.8
Cell 25	25	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	26.0
		09/27/10	5 - 6	3.65	221	0.115	3.41	6.45	2,520	1.58	<0.0173	0.302	<0.106	10.4
		12/23/10	5 - 6	3.63	649	0.131	3.92	1.98	3,570	1.98	<0.0162	0.269	<0.111	8.0
WQCC Level:				0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.05	0.05	10.0
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

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):				3.79	271	0.201	9.20	4.01	8,510	4.96	<0.0145	2.77	<0.0957	19.8
WQCC Level:				0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.05	0.05	10.0
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

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

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):						
WQCC Level:				--	8.89	--
				--	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	--
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	--
Cell 19	19	05/22/07	2 - 3	--	<5.06	205

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	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	--
		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	--
Cell 20	20	12/23/10	5 - 6	--	7.94	--
		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	--
Cell 21	21	06/14/10	5 - 6	227	28.9	236
		09/27/10	5 - 6	--	47.1	--
		12/23/10	5 - 6	--	32.3	--
		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	--

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):						
WQCC Level:						
				--	8.89	--
				--	250	600
Cell 21	21	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	--
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	--
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	--

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):						
WQCC Level:						
Cell 26	26	06/14/10	5 - 6	174	26.2	130
		09/27/10	5 - 6	--	<5.43	--
		12/23/10	5 - 6	--	<5.57	--

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

Sample	Date	Depth	Chloride		Descriptive Statistics	
WQCC Level:					250	
Background	03/25/09	2 - 3'	8.89	8.89	Mean	6.20
BK-L-32	06/25/09	8"	<6.39	6.39	Standard Error	0.31
BK-M-32	06/25/09	12"	<5.27	5.27	Median	6.29
BK-R-32	06/25/09	18"	<6.47	6.47	Mode	6.39
BK-L-31	06/25/09	12"	<5.40	5.40	Standard Deviation	1.02
BK-R-31	06/25/09	12"	<6.34	6.34	Sample Variance	1.03
BK-L-30	06/25/09	12"	<6.29	6.29	Kurtosis	5.26
BK-M-30	06/25/09	8"	<5.93	5.93	Skewness	1.99
BK-R-30	06/25/09	10"	<6.39	6.39	Range	3.68
BK-L-29	06/25/09	36"	<5.21	5.21	Minimum	5.21
BK-R-29	06/25/09	30"	<5.62	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. <

CREATION NO. 001 AMERICA CORPORATION and PRODUCTION COMPANY, LANDS (PERMITS NM-2-000000-000000)
 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
				Student-t's 95% minimum	2.66
				Student-t's 95% maximum	3.22
				Confidence Level (98.0%)	0.34
				Student-t's 98% minimum	2.60
				Student-t's 98% maximum	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

Sample	Date	Depth	Barium	Descriptive Statistics	
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
				Student-t's 95% minimum	70.1
				Student-t's 95% maximum	145.5
				Confidence Level (98.0%)	46.8
				Student-t's 98% minimum	61.0
				Student-t's 98% maximum	154.6

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 met

1. <

Chevron North America Exploration and Production Company, Landarm (Permit NM-2-UU114)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Chromium	Descriptive Statistics	
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
				Student-t's 95% minimum	8.76
				Student-t's 95% maximum	10.28
				Confidence Level (98.0%)	0.94
				Student-t's 98% minimum	8.58
				Student-t's 98% maximum	10.46

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

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
				Student-t's 95% minimum	4.01
				Student-t's 95% maximum	5.09
				Confidence Level (98.0%)	0.67
				Student-t's 98% minimum	3.88
				Student-t's 98% maximum	5.22

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 met

Cnevron North America Exploration and Production Company, Larriviera (Permit NM-2-00112)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Iron	Descriptive Statistics	
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
				Student-t's 95% minimum	8131
				Student-t's 95% maximum	9647
				Confidence Level (98.0%)	940
				Student-t's 98% minimum	7949
				Student-t's 98% maximum	9829

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 met
1. <

Cnevron North America Exploration and Production Company, Laurium (Permit NM-2-00112)
W/2 of Section 17, Township 24 South, Range 36 East
Lea County, New Mexico

Sample	Date	Depth	Lead	Descriptive Statistics	
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
				Student-t's 95% minimum	5.70
				Student-t's 95% maximum	6.62
				Confidence Level (98.0%)	0.57
				Student-t's 98% minimum	5.59
				Student-t's 98% maximum	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 m
1. <

Chevron North America Exploration and Production Company, Laramie (Permian NM-2-0011)
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	Mean 0.0159
BK-L-32	06/25/09	8"	<0.0108	Standard Error 0.0009
BK-M-32	06/25/09	12"	<0.0150	Median 0.0164
BK-R-32	06/25/09	18"	<0.0189	Mode 0.0108
BK-L-31	06/25/09	12"	<0.0166	Standard Deviation 0.0030
BK-R-31	06/25/09	12"	<0.0201	Sample Variance 9.02E-06
BK-L-30	06/25/09	12"	<0.0108	Kurtosis -0.1501
BK-M-30	06/25/09	8"	<0.0180	Skewness -0.6817
BK-R-30	06/25/09	10"	<0.0178	Range 0.0093
BK-L-29	06/25/09	36"	<0.0160	Minimum 0.0108
BK-R-29	06/25/09	30"	<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,
Results are reported in milligram per Kilogram
Metals analysis was performed by SW846 met
Mercury analysis was performed by SW846 met
1. <

Sample	Date	Depth	Selenium	Descriptive Statistics	
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
				Student-t's 95% minimum	1.61
				Student-t's 95% maximum	2.11
				Confidence Level (98.0%)	0.31
				Student-t's 98% minimum	1.61
				Student-t's 98% maximum	2.17

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 met
1. <

Sample	Date	Depth	Zinc	Descriptive Statistics	
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
				Student-t's 95% minimum	19.7
				Student-t's 95% maximum	22.7
				Confidence Level (98.0%)	1.89
				Student-t's 98% minimum	19.3
				Student-t's 98% maximum	23.1

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 mt
1. <

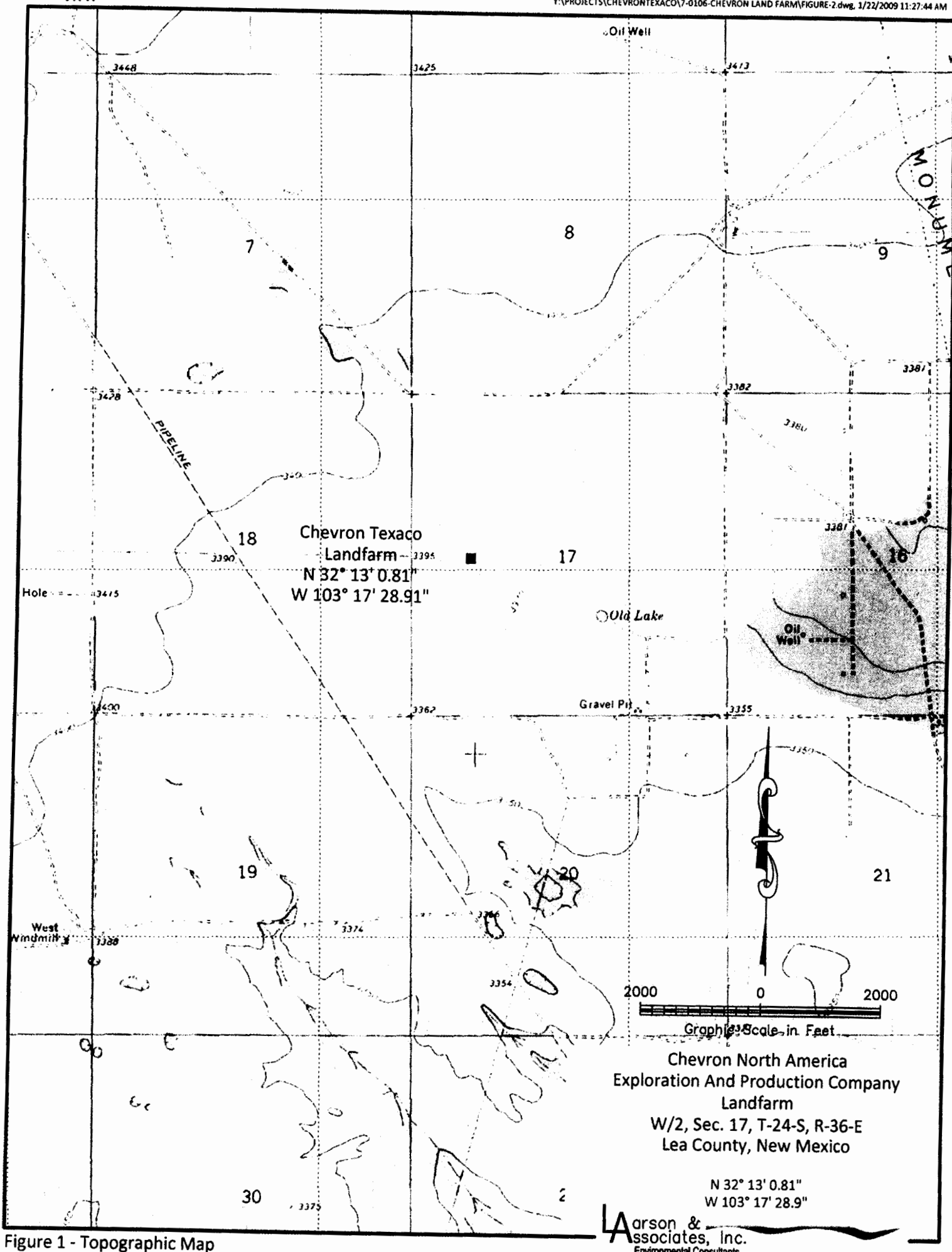


Figure 1 - Topographic Map

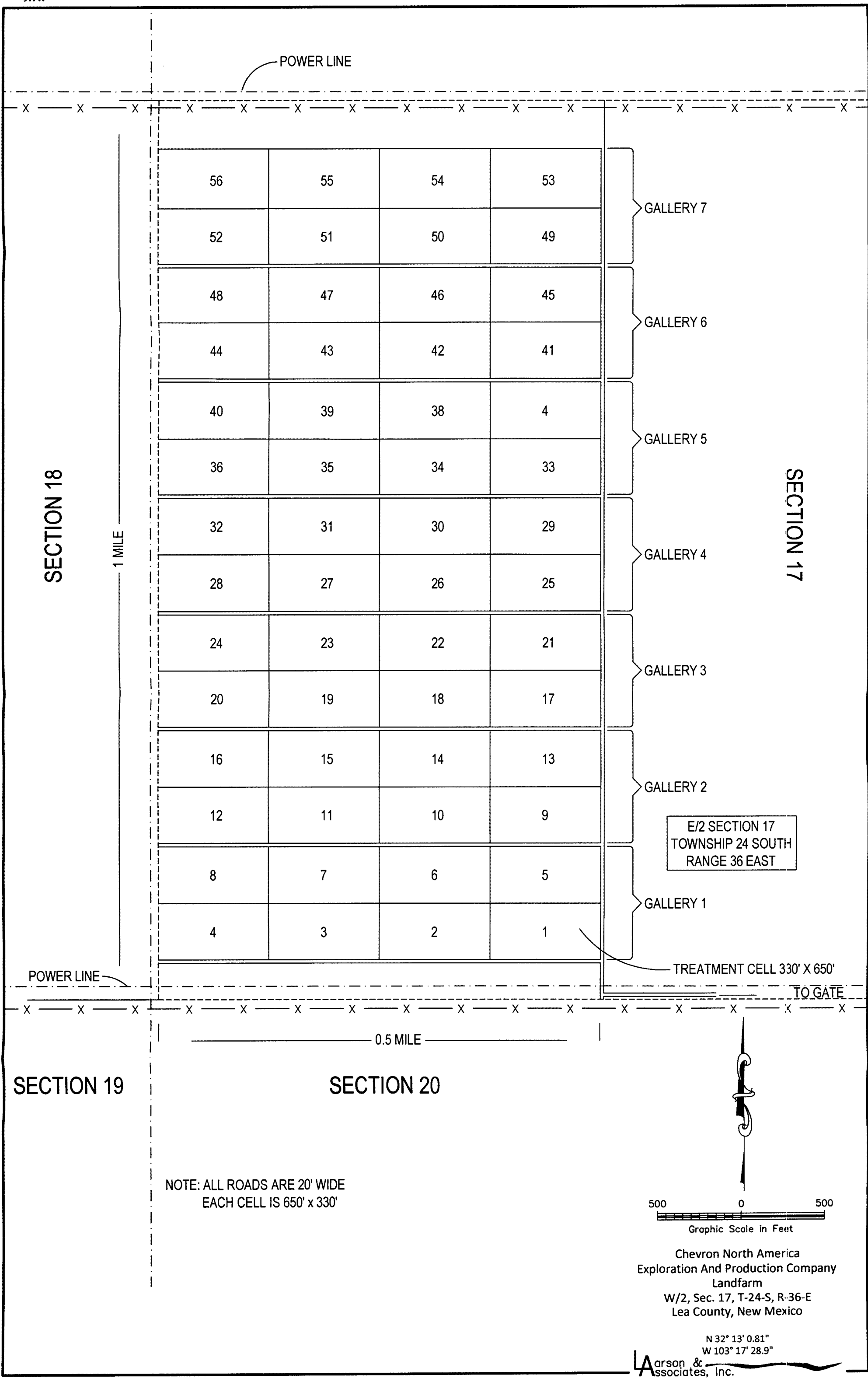


Figure 2 - Site Drawing



Rodney Bailey
Environmental Advisor

Chevron North America
Exploration and Production
Mid Continent Business Unit/HES
15 Smith Rd
Midland, Texas 79705
Office 432-687-7123
Cell 432-894-3519
Fax 866-569-5650

RECEIVED OCD

2010 MAY 25 A 11:07

May 21, 2010

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

**Re: Closure Request 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. Von Gonten:

The enclosed report is submitted to the New Mexico Oil Conservation Division to present the results and closure request of Surface Waste Management monitoring performed at the Chevron Landfarm.

If you have any questions or concerns, please call me at 432-687-7123 to discuss.

**Sincerely,
Chevron USA**

Rodney Bailey

Rodney Bailey
Environmental Advisor

Attachments **Surface Waste Management Report and Closure Request**

CC Michelle Green, Larson & Associates, Midland, TX
Brad Jones, NM OCD, Santa Fe, NM
Larry Johnson, NM OCD, Hobbs, NM

**SURFACE WASTE MANAGEMENT
REPORT AND CLOSURE REQUEST**

Chevron Landfarm
NM-2-0012
Lea County, New Mexico

Project No. 6-0137

May 24, 2010

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

Prepared by:
Michelle L. Green
Environmental Scientist

Larson & Associates, Inc.
507 North Marienfeld, Suite 200
Midland, Texas 79701

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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 report to the New Mexico Oil Conservation Division (OCD) for approval to close the above referenced centralized surface waste management facility (NM-2-0012).

The following activities were conducted during this year:

- Treatment Zone Sampling Event on March 26, 2010
- Vadose Zone Sampling Event on March 31, 2010

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 the Student t's – Descriptive Statistics calculations with 95% and 98% confidence levels. Vadose zone sample results exceeding established background were compared to the Student t's confidence levels.

3.0 Vadose Zone Samples

Samples for the vadose zone from Cells 17, 18, 19, 20, 21, 25, and 26 were collected by LAI personnel on March 31, 2010. The samples were collected between approximately 4 to 5 feet below native ground surface. The samples were collected using a jam tube and air rotary drill rig. The samples were placed in pre-cleaned 4-ounce jars, properly labeled and placed on ice upon collection and submitted to DHL Analytical, Inc. (DHL) located in Round Rock, Texas.

3.1 March 31, 2010 Sampling Event

On March 31, 2010, LAI personnel contracted Scarborough Drilling, Inc. to collect samples from the vadose zone for Cells 17 through 21, 25 and 26. The samples were collected from approximately 4 to 5 feet below native ground surface. The samples were collected using an air rotary rig and jam tube sampler. Samples were placed in pre-cleaned 4-ounce jars, properly labeled and placed on ice upon collection. The samples were submitted to DHL.

The vadose zone 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,
- Metals and Mercury analyses by EPA methods SW6020 and SW7471A, respectively, and
- Anions by EPA method 300.

The TPH, TRPH, BTEX and benzene results of the vadose zone samples for Cells 17 through 20, 25 and 26 were below the method detection limits. TPH was detected in Cell 21 (62.3 ppm) above the established background level, but may be due to possible cross contamination with soil from the treatment zone. Tables 4 and 5 present a summary of the vadose zone BTEX and TPH analyses.

Chloride was detected in Cells 17, 18, 20, and 21, which ranged from 13.7 to 134 ppm, and were above the establish background concentration (8.89 ppm) but below 250 ppm. A summary of the vadose zone chloride results are presented in Table 7.

Arsenic (3.84 and 4.11 ppm) and barium (452 and 377 ppm) were detected above background levels for Cells 17 and 25. Barium (362 ppm) was detected in Cell 26 above the background level. The laboratory further analyzed these samples by the synthetic precipitation leaching procedure (SPLP), under EPA SW-846 method 1312, which simulates the leaching potential of inorganic compounds.

The SPLP metal results for arsenic (Cells 17 and 25) and barium (Cells 17, 25 and 26) demonstrate that the metal constituents reported above background concentrations did not leach at concentrations established for human health by the New Mexico WQCC in 20 NMAC 6.2.3103(A). A summary of the vadose zone total and SPLP metal analyses are presented in Table 6.

Vadose zones and background statistical confidence level tables are presented in the Tables section. Laboratory analytical reports are presented in Appendix A.

4.0 Treatment Zone Samples

Per OCD permit requirements, a 5-part composite soil sample was collected from each cell on March 26, 2010. Collected samples were retrieved from 0-1 foot depth and shipped via LoneStar Overnight, under custody seals and chain of custody to DHL.

4.1 March 26, 2010 Sampling Event

On March 26, 2010, LAI collected random five (5) part soil composite samples from Cells 17 through 21, 25 and 26. The soil samples were collected using a stainless steel hand auger. The samples were

collected from the tilled (treatment) zone, placed in pre-cleaned 4-ounce jars, properly labeled and placed on ice upon collection. The samples were submitted to DHL under custody seals and chain of custody.

The treatment samples were analyzed for the following constituents:

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

The results of the composite treatment samples (Cells 17 through 21, 25 and 26) were below the remediation standards for BTEX (50 ppm), Benzene (10 ppm), 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.

The treatment zone soil samples were analyzed for metals in accordance to subsections A and B of 20.6.23103 NMAC. The results were compared to the background sample. Cells 17 through 21, 25 and 26 were below background levels for arsenic, barium, iron, mercury, selenium, and silver.

Cell 17 was above background for cadmium (0.438 ppm), chromium (9.27 ppm), copper (4.51 ppm), lead (6.41 ppm), manganese (97.5 ppm) and zinc (21.3 ppm). Cell 18 was above background for cadmium (0.237 ppm), chromium (22.0 ppm), copper (10.7 ppm), lead (17.2 ppm), manganese (92.8 ppm) and zinc (26.4 ppm). Cell 21 was above background for cadmium (0.244 ppm), copper (4.35 ppm), lead (11.6 ppm) and zinc (24.4 ppm). Cell 25 was above background for cadmium (0.438 ppm), chromium (14.8 ppm), lead (5.27 ppm), silver (0.241 ppm) and zinc (22.9 ppm). Cell 26 was above background for cadmium (0.226 ppm), copper (4.44 ppm), lead (5.43 ppm), manganese (104 ppm) and zinc (20.9 ppm). These samples were further analyzed by the SPLP method 1312 to determine their leaching potential. A summary of the treatment zone total and SPLP metals is presented in Table 3.

The SPLP metal results demonstrate that the metal constituents reported above background concentrations did not leach at concentrations established for human health by the New Mexico WQCC in 20 NMAC 6.2.3103(A).

Background statistical confidence level tables are presented in the Tables section. Laboratory analytical reports are presented in Appendix A.

5.0 Additional Information

Depth to groundwater is estimated between approximately 160 and 165 feet below ground surface from water well records from the New Mexico State Engineer and monitoring well located in the west half (W/2) of Section 15, Township 24 South, Range 36 East indicates 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 zone 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 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. Transition metals (i.e. iron, chromium, copper, lead, zinc, etc.) become more soluble, thus more mobile, under low pH conditions.

6.0 References

The following published and unpublished works were used in the preparation of this report.

DBS&A. 2002. *Geochemical Mobility of Selected Inorganic Constituents in Groundwater*, Texas Natural Resource Conservation Commission. Austin, TX.

7.0 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.

Vadose zone samples Cells 17, 25 and 26 had an exceedance for arsenic and/or barium. The SPLP metal results demonstrate that the metal constituents reported above background concentrations did not leach at concentrations established for human health by the New Mexico WQCC in 20 NMAC 6.2.3103(A).

The background and vadose zone samples indicate that the pH at the facility is slightly basic. Depth to groundwater in this area is observed between 149 to 180 feet bgs. Monitor well boring logs from an adjacent site indicate a general lithology of an unconsolidated veneer of eolian sand over a 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 requests the OCD to grant closure for Cells 17 through 21, 25 and 26.

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 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
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

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 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
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
		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

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 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
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

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	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

Notes:

Samples were analyzed by DHL Analytical, Inc., Round Rock, 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
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

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 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
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
		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

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 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
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

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	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

Notes:

Samples were analyzed by DHL Analytical, Inc., Round Rock, 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):				3.79	271	0.201	9.20	4.01	8,510	4.96	81.5	<0.0145	2.77	<0.0957	19.8
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:				0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
Cell 17 SPLP	17	03/26/10	0 - 1	--	--	<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:				0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
Cell 18 SPLP	18	03/26/10	0 - 1	--	--	<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:				0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
Cell 19 SPLP	19	03/26/10	0 - 1	--	--	--	--	--	--	--	<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:				0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
Cell 21 SPLP	21	03/26/10	0 - 1	--	--	<0.0003	--	0.00293	--	0.00086	--	--	--	--	0.00539

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):				3.79	271	0.201	9.20	4.01	8,510	4.96	81.5	<0.0145	2.77	<0.0957	19.8
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
		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:				0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
Cell 25 SPLP	25	03/26/10	0 - 1	--	--	<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:				0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.2	0.002	0.05	0.05	10.0
Cell 26 SPLP	26	03/26/10	0 - 1	--	--	<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
Cell 18	18	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				50
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
Cell 20	20	05/22/07	2 - 3	<0.00326	<0.00543	<0.00543	<0.00543	<0.00326
		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

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	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
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

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	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
		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

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

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	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
		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
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

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	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
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

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	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

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, 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	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Zinc
Background Level (3/25/09):				3.79	271	0.201	--	9.20	4.01	8,510	4.96	--	81.5	<0.0145	--	2.77	<0.0957	--	19.8
Cell 17	17	05/22/07	2 - 3	3.30	164	0.188	153,000	7.90	--	--	4.360	2,230	--	0.0171	1,820	0.866	<0.107	607	--
		03/19/08	2 - 3	5.22	356	<0.113	279,000	1.09	--	--	0.591	2,480	--	<0.0180	251	0.407	<0.113	174	--
		08/26/08	2 - 3	2.87	213	0.138	319,000	3.19	--	--	1.67	1,970	--	<0.0155	617	0.716	<0.109	136	--
		03/25/09	2 - 3	4.43	1,330	0.182	--	3.64	2.17	2,440	1.93	--	26.6	<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
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
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	335,000	3.41	--	--	1.75	2,180	--	<0.0186	725	0.635	<0.104	205	--
		03/19/08	2 - 3	3.18	139	0.168	220,000	4.53	--	--	3.08	1,800	--	<0.0167	982	0.987	<0.0911	117	--
		08/25/08	2 - 3	3.91	149	0.172	229,000	3.97	--	--	3.48	1,980	--	<0.0164	919	0.897	<0.109	127	--
		03/25/09	2 - 3	4.81	730	<0.112	--	3.46	2.25	2,200	1.36	--	24.0	<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
		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	--	0.45	<0.108	--	9.39
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
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	10,500	9.69	--	--	4.82	1,720	--	<0.0162	2,090	1.03	<0.0912	95.5	--
		03/19/08	2 - 3	2.35	89.8	0.166	79,900	7.83	--	--	4.42	1,540	--	<0.0162	1,650	1.50	<0.0965	40.3	--
		08/25/08	2 - 3	1.72	40.9	<0.101	1,660	6.83	--	--	4.20	1,040	--	<0.0162	1,550	1.28	<0.101	16.9	--
		03/25/09	2 - 3	2.84	197	0.118	--	4.28	2.26	3,380	2.30	--	38.1	<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
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
Cell 19 SPLP	19	03/31/10	4 - 5	0.00252	0.0201	--	--	--	0.00279	0.546	--	--	--	--	--	--	--	--	--

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	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Zinc
Background Level (3/25/09):				3.79	271	0.201	--	9.20	4.01	8,510	4.96	--	81.5	<0.0145	--	2.77	<0.0957	--	19.8
Cell 20	20	05/22/07	2 - 3	2.98	96.1	0.202	112,000	7.16	--	--	4.65	1,230	--	<0.0169	1,490	1.140	<0.104	36.2	--
		03/19/08	2 - 3	3.30	247	0.099	259,000	2.45	--	--	1.35	2,080	--	<0.0158	530	0.459	<0.0989	150	--
		08/25/08	2 - 3	1.43	29.6	<0.0990	8,070	5.11	--	--	3.08	720	--	<0.0154	1,050	0.865	<0.0990	12.9	--
		03/25/09	2 - 3	4.29	204	<0.111	--	2.16	2.00	1,370	1.01	--	19.5	<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
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
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	307,000	4.29	--	--	2.18	2,490	--	<0.0177	1,020	0.626	<0.117	118	--
		03/19/08	2 - 3	4.53	736	0.125	311,000	2.15	--	--	1.21	2,660	--	<0.0158	432	0.460	<0.108	137	--
		08/26/08	2 - 3	2.67	73.1	0.141	6,440	9.52	--	--	6.55	1,840	--	<0.0149	2,210	2.41	<0.102	20.0	--
		03/25/09	2 - 3	2.61	74.4	0.147	--	8.83	4.03	8,130	4.76	--	87.7	<0.0154	--	2.45	<0.102	--	19.0
		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
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
Cell 21 SPLP	21	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	6,820	11.70	--	--	6.13	1,970	--	<0.0171	3,020	1.39	<0.103	94.4	--
		08/25/08	2 - 3	2.88	60.8	0.155	17,000	8.91	--	--	5.51	1,600	--	<0.0154	1,920	1.41	<0.105	<13.1	--
		03/25/09	2 - 3	3.85	65.5	0.215	--	11.6	3.83	11,800	6.61	--	91.7	<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
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
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	83,700	9.20	--	--	4.79	1,930	--	<0.0177	2,060	1.23	<0.109	93	--
		08/26/08	2 - 3	2.58	85.1	0.115	43,700	6.73	--	--	4.77	1,500	--	<0.0149	1,610	1.64	<0.103	50.8	--
		09/25/08	2 - 3	4.25	128	0.271	2,370	14.60	--	--	9.17	2,370	--	<0.0172	2,860	2.20	0.109	62.7	--
		03/25/09	2 - 3	5.19	692	0.132	--	3.07	2.37	2,100	1.38	--	20.0	<0.0177	--	0.960	<0.110	--	5.85

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	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Zinc
Background Level (3/25/09):				3.79	271	0.201	--	9.20	4.01	8,510	4.96	--	81.5	<0.0145	--	2.77	<0.0957	--	19.8
Cell 26	26	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
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
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

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 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	--
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	--

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	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	--
		12/21/09	2 - 3	--	11.0	--
		03/31/10	4 - 5	--	<5.56	--
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	--

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	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	--
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	--

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 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	--

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

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
				Student-t's 95% minimum	2.66
				Student-t's 95% maximum	3.22
				Confidence Level (98.0%)	0.34
				Student-t's 98% minimum	2.60
				Student-t's 98% maximum	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. <:

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	Descriptive Statistics	
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
				Student-t's 95% minimum	70.1
				Student-t's 95% maximum	145.5
				Confidence Level (98.0%)	46.8
				Student-t's 98% minimum	61.0
				Student-t's 98% maximum	154.6

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 m
1. <

Summary of Background Screen 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	Descriptive Statistics	
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
				Student-t's 95% minimum	8.76
				Student-t's 95% maximum	10.28
				Confidence Level (98.0%)	0.94
				Student-t's 98% minimum	8.58
				Student-t's 98% maximum	10.46

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 m
1. <:

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
				Student-t's 95% minimum	4.01
				Student-t's 95% maximum	5.09
				Confidence Level (98.0%)	0.67
				Student-t's 98% minimum	3.88
				Student-t's 98% maximum	5.22

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 m
1. <

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	Descriptive Statistics	
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
				Student-t's 95% minimum	8131
				Student-t's 95% maximum	9647
				Confidence Level (98.0%)	940
				Student-t's 98% minimum	7949
				Student-t's 98% maximum	9829

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 m
1. <:

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 m
1. <:

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,
Results are reported in milligram per Kilogram
Metals analysis was performed by SW846 met
Mercury analysis was performed by SW846 m
1. <:

Summary of Background 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	Descriptive Statistics	
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
				Student-t's 95% minimum	1.61
				Student-t's 95% maximum	2.11
				Confidence Level (98.0%)	0.31
				Student-t's 98% minimum	1.61
				Student-t's 98% maximum	2.17

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 m
1. <:

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 met
Mercury analysis was performed by SW846 m
1. <:

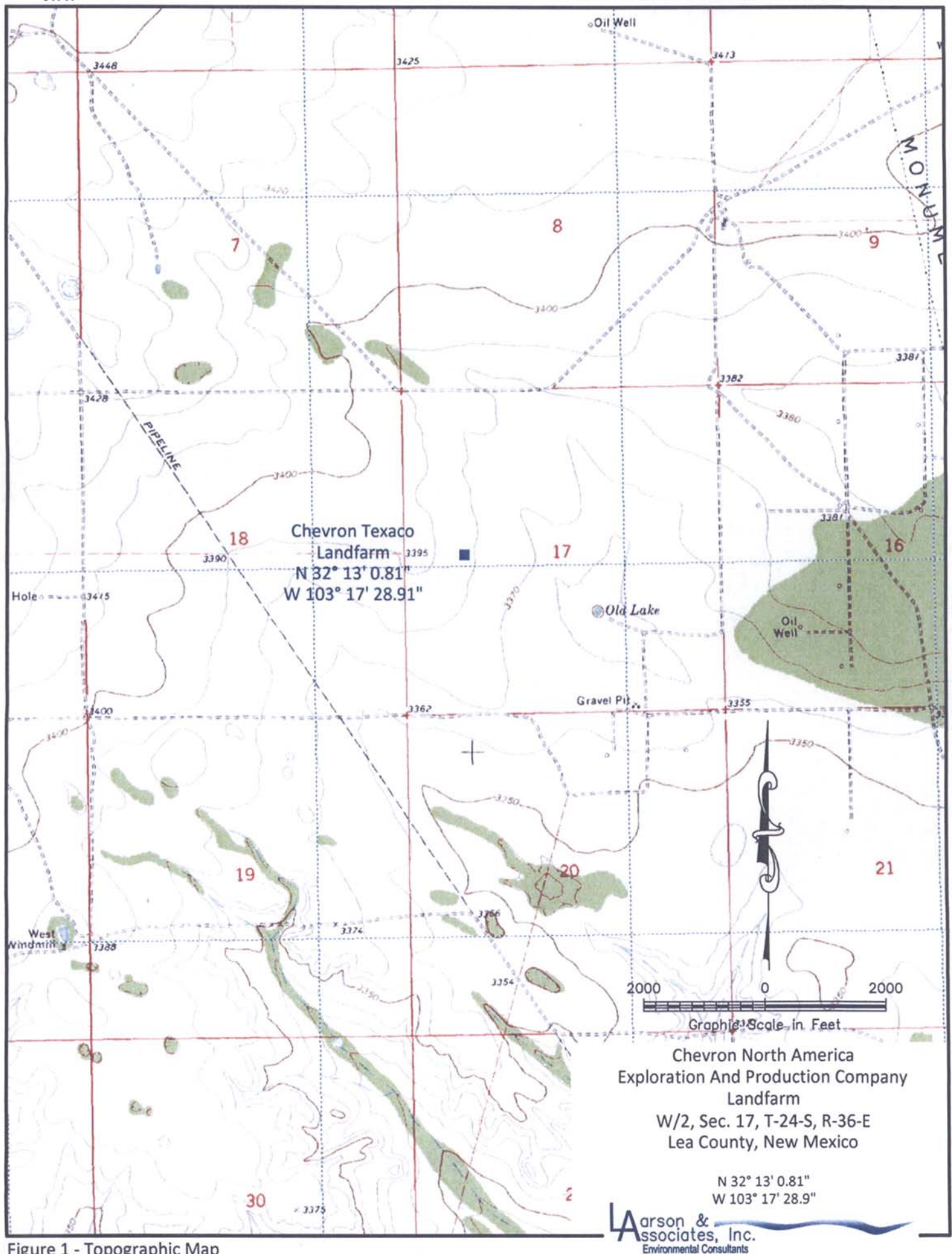


Figure 1 - Topographic Map

POWER LINE

SECTION 18

1 MILE

SECTION 17

GALLERY 7

GALLERY 6

GALLERY 5

GALLERY 4

GALLERY 3

GALLERY 2

GALLERY 1

E/2 SECTION 17
TOWNSHIP 24 SOUTH
RANGE 36 EAST

TREATMENT CELL 330' X 650'

TO GATE

0.5 MILE

SECTION 19

SECTION 20

NOTE: ALL ROADS ARE 20' WIDE
EACH CELL IS 650' x 330'500 0 500
Graphic Scale in FeetChevron North America
Exploration And Production Company
Landfarm
W/2, Sec. 17, T-24-S, R-36-E
Lea County, New MexicoN 32° 13' 0.81"
W 103° 17' 28.9"Larson &
Associates, Inc.
Environmental Consultants

Figure 2 - Site Drawing



April 08, 2010

Michelle Green
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701

Order No: 1003225

TEL: (432) 687-0901
FAX: (432) 687-0456

RE: Landfarm

Dear Michelle Green:

DHL Analytical received 9 sample(s) on 3/30/2010 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont". The signature is fluid and cursive.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number:
T104704211-09-1



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Airbill No. Z6109475

Lone Star Overnight
800.800.8984
www.lso.com

To: SAMPLE RECEIVING
DHL ANALYTICAL
2300 DOUBLE CREEK DRIVE
ROUND ROCK, TX 78664
(512) 388 - 8222

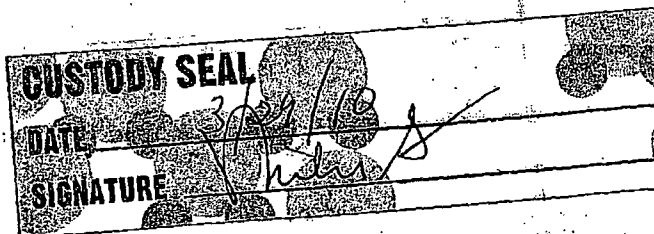
From: MICHELLE GREEN
LARSON & ASSOCIATES, INC.
507 N MARIENFELD
SUITE 200
MIDLAND, TX 79701
(432) 687 - 0901

Service Type: By 10:30am
1D00V

AUS

By 10:30am

QuickCode: DHL
Date Printed: 3/29/2010
Billing Ref 1: 6-0137 & 6-0138-20



Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 3/30/2010

Work Order Number 1003225

Received by JB

Checklist completed by: [Signature] 3/30/10 Reviewed by: SS 3-30-10
Signature Date Initials Date

Carrier name: LoneStar

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	1.0 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: Landfarm
Lab Order: 1003225

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method M8015D - DRO Analysis
Method M8015V - GRO Analysis
Method SW8021B - Volatile Organics by GC
Method E418.1 - TRPH Analysis (Parameter not NELAC Certified)
Method E300 - Anions Analysis
Method D2216 - Percent Moisture

LOG IN

The samples were received and log-in performed on 3/30/10. A total of 9 samples were received. The time of collection was Mountain Standard Time. The samples arrived in good condition and were properly packaged.

CLIENT: Larson & Associates
Project: Landfarm
Lab Order: 1003225

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1003225-01	Cell 17 (0-1')		03/26/10 03:00 PM	03/30/10
1003225-02	Cell 18 (0-1')		03/26/10 02:45 PM	03/30/10
1003225-03	Cell 19 (0-1')		03/26/10 02:20 PM	03/30/10
1003225-04	Cell 20 (0-1')		03/26/10 02:02 PM	03/30/10
1003225-05	Cell 21 (0-1')		03/26/10 03:15 PM	03/30/10
1003225-06	Cell 25 (0-1')		03/26/10 03:45 PM	03/30/10
1003225-07	Cell 26 (0-1')		03/26/10 03:25 PM	03/30/10
1003225-08	Cell 20 (2-3')		03/26/10 12:00 PM	03/30/10
1003225-09	Cell 19 (2-3')		03/26/10 04:30 PM	03/30/10

CLIENT: Larson & Associates
 Project: Landfarm
 Lab Order: 1003225

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1003225-01A	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	03/30/10 04:40 PM	40262
	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	SW5030B	Purge and Trap Soils GC	03/30/10 10:17 AM	40247
1003225-01B	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
1003225-02A	Cell 18 (0-1')	03/26/10 02:45 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	03/30/10 04:40 PM	40262
	Cell 18 (0-1')	03/26/10 02:45 PM	Soil	SW5030B	Purge and Trap Soils GC	03/30/10 10:17 AM	40247
1003225-02B	Cell 18 (0-1')	03/26/10 02:45 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 18 (0-1')	03/26/10 02:45 PM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 18 (0-1')	03/26/10 02:45 PM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 18 (0-1')	03/26/10 02:45 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
	Cell 18 (0-1')	03/26/10 02:45 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
1003225-03A	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	03/30/10 04:40 PM	40262
	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	SW5030B	Purge and Trap Soils GC	03/30/10 10:17 AM	40247
1003225-03B	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
1003225-04A	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	03/30/10 04:40 PM	40262
	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	SW5030B	Purge and Trap Soils GC	03/30/10 10:17 AM	40247
1003225-04B	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	E300	Anion Prep	04/07/10 11:35 AM	40407
	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
1003225-05A	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	03/30/10 04:40 PM	40262
	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	SW5030B	Purge and Trap Soils GC	03/30/10 10:17 AM	40247
1003225-05B	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334

CLIENT: Larson & Associates
 Project: Landfarm
 Lab Order: 1003225

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1003225-06A	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	03/30/10 04:40 PM	40262
	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	SW5030B	Purge and Trap Soils GC	03/30/10 10:17 AM	40247
1003225-06B	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
1003225-07A	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248
	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	03/30/10 04:40 PM	40262
	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	SW5030B	Purge and Trap Soils GC	03/30/10 10:17 AM	40247
1003225-07B	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	D2216	Moisture Preparation	03/30/10 11:00 AM	40248

CLIENT: Larson & Associates
 Project: Landfarm
 Lab Order: 1003225

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1003225-01A	Cell 17 (0-1')	Soil	M8015V	Method 8015 Gasoline (GRO)	40262	1	03/30/10 06:52 PM	GC4_100330B
	Cell 17 (0-1')	Soil	SW8021B	Volatile Organics by GC	40247	1	03/30/10 12:45 PM	GC4_100330A
1003225-01B	Cell 17 (0-1')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 09:51 AM	IC2_100406A
	Cell 17 (0-1')	Soil	D2216	Percent Moisture	40248	1	03/30/10 03:30 PM	PMOIST_100330B
	Cell 17 (0-1')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 09:28 AM	GC15_100405A
1003225-02A	Cell 17 (0-1')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 18 (0-1')	Soil	M8015V	Method 8015 Gasoline (GRO)	40262	1	03/30/10 07:14 PM	GC4_100330B
	Cell 18 (0-1')	Soil	SW8021B	Volatile Organics by GC	40247	1	03/30/10 01:07 PM	GC4_100330A
1003225-02B	Cell 18 (0-1')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 10:02 AM	IC2_100406A
	Cell 18 (0-1')	Soil	D2216	Percent Moisture	40248	1	03/30/10 03:30 PM	PMOIST_100330B
	Cell 18 (0-1')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 02:32 PM	GC15_100405A
1003225-03A	Cell 18 (0-1')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 19 (0-1')	Soil	M8015V	Method 8015 Gasoline (GRO)	40262	1	03/30/10 07:36 PM	GC4_100330B
	Cell 19 (0-1')	Soil	SW8021B	Volatile Organics by GC	40247	1	03/30/10 01:29 PM	GC4_100330A
1003225-03B	Cell 19 (0-1')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 10:35 AM	IC2_100406A
	Cell 19 (0-1')	Soil	D2216	Percent Moisture	40248	1	03/30/10 03:30 PM	PMOIST_100330B
	Cell 19 (0-1')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 01:38 PM	GC15_100405A
1003225-04A	Cell 19 (0-1')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 20 (0-1')	Soil	M8015V	Method 8015 Gasoline (GRO)	40262	1	03/30/10 07:58 PM	GC4_100330B
	Cell 20 (0-1')	Soil	SW8021B	Volatile Organics by GC	40247	1	03/30/10 01:51 PM	GC4_100330A
1003225-04B	Cell 20 (0-1')	Soil	E300	Anions by IC method - Soil	40407	1	04/08/10 10:04 AM	IC2_100408A
	Cell 20 (0-1')	Soil	D2216	Percent Moisture	40248	1	03/30/10 03:30 PM	PMOIST_100330B
	Cell 20 (0-1')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 12:53 PM	GC15_100405A
1003225-05A	Cell 20 (0-1')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 21 (0-1')	Soil	M8015V	Method 8015 Gasoline (GRO)	40262	1	03/30/10 08:20 PM	GC4_100330B
	Cell 21 (0-1')	Soil	SW8021B	Volatile Organics by GC	40247	1	03/30/10 02:12 PM	GC4_100330A
1003225-05B	Cell 21 (0-1')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 10:47 AM	IC2_100406A
	Cell 21 (0-1')	Soil	D2216	Percent Moisture	40248	1	03/30/10 03:30 PM	PMOIST_100330B
	Cell 21 (0-1')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 02:59 PM	GC15_100405A

CLIENT: Larson & Associates
 Project: Landfarm
 Lab Order: 1003225

ANALYTICAL DATA REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1003225-06A	Cell 21 (0-1')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 25 (0-1')	Soil	M8015V	Method 8015 Gasoline (GRO)	40262	1	03/30/10 08:42 PM	GC4_100330B
	Cell 25 (0-1')	Soil	SW8021B	Volatile Organics by GC	40247	1	03/30/10 02:34 PM	GC4_100330A
1003225-06B	Cell 25 (0-1')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 10:58 AM	IC2_100406A
	Cell 25 (0-1')	Soil	D2216	Percent Moisture	40248	1	03/30/10 03:30 PM	PMOIST_100330B
	Cell 25 (0-1')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 02:05 PM	GC15_100405A
1003225-07A	Cell 25 (0-1')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 26 (0-1')	Soil	M8015V	Method 8015 Gasoline (GRO)	40262	1	03/30/10 09:04 PM	GC4_100330B
	Cell 26 (0-1')	Soil	SW8021B	Volatile Organics by GC	40247	1	03/30/10 02:56 PM	GC4_100330A
1003225-07B	Cell 26 (0-1')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 11:39 AM	IC2_100406A
	Cell 26 (0-1')	Soil	D2216	Percent Moisture	40248	1	03/30/10 03:30 PM	PMOIST_100330B
	Cell 26 (0-1')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 10:10 AM	GC15_100405A
	Cell 26 (0-1')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A

DHL Analytical

Date: 04/08/10

CLIENT: Larson & Associates
 Project: Landfarm
 Project No: 6-0137
 Lab Order: 1003225

Client Sample ID: Cell 17 (0-1')
 Lab ID: 1003225-01
 Collection Date: 03/26/10 03:00 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	90.4	3.13	10.4		mg/Kg-dry	1	04/05/10 09:28 AM
Surr: Isopropylbenzene	60.8	0	47 - 142		%REC	1	04/05/10 09:28 AM
Surr: Octacosane	111	0	25 - 162		%REC	1	04/05/10 09:28 AM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.0977	0.195		mg/Kg-dry	1	03/30/10 06:52 PM
Surr: Tetrachlorethene	100	0	70 - 134		%REC	1	03/30/10 06:52 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00310	0.00517		mg/Kg-dry	1	03/30/10 12:45 PM
Ethylbenzene	ND	0.00517	0.0155		mg/Kg-dry	1	03/30/10 12:45 PM
Toluene	ND	0.00517	0.0155		mg/Kg-dry	1	03/30/10 12:45 PM
Xylenes, Total	ND	0.00517	0.0155		mg/Kg-dry	1	03/30/10 12:45 PM
Surr: Tetrachloroethene	94.0	0	79 - 135		%REC	1	03/30/10 12:45 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	53.7	5.37	10.7	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	11.0	5.32	5.32		mg/Kg-dry	1	04/06/10 09:51 AM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	6.99	0	0		WT%	1	03/30/10 03:30 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Project: Landfarm
 Project No: 6-0137
 Lab Order: 1003225

Client Sample ID: Cell 18 (0-1')
 Lab ID: 1003225-02
 Collection Date: 03/26/10 02:45 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	96.7	2.88	9.59		mg/Kg-dry	1	04/05/10 02:32 PM
Surr: Isopropylbenzene	66.1	0	47 - 142		%REC	1	04/05/10 02:32 PM
Surr: Octacosane	126	0	25 - 162		%REC	1	04/05/10 02:32 PM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.102	0.203		mg/Kg-dry	1	03/30/10 07:14 PM
Surr: Tetrachlorethene	103	0	70 - 134		%REC	1	03/30/10 07:14 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00273	0.00455		mg/Kg-dry	1	03/30/10 01:07 PM
Ethylbenzene	ND	0.00455	0.0136		mg/Kg-dry	1	03/30/10 01:07 PM
Toluene	ND	0.00455	0.0136		mg/Kg-dry	1	03/30/10 01:07 PM
Xylenes, Total	ND	0.00455	0.0136		mg/Kg-dry	1	03/30/10 01:07 PM
Surr: Tetrachloroethene	94.5	0	79 - 135		%REC	1	03/30/10 01:07 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	201	5.18	10.4	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	ND	5.17	5.17		mg/Kg-dry	1	04/06/10 10:02 AM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	3.52	0	0		WT%	1	03/30/10 03:30 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 04/08/10

CLIENT: Larson & Associates
 Project: Landfarm
 Project No: 6-0137
 Lab Order: 1003225

Client Sample ID: Cell 19 (0-1')
 Lab ID: 1003225-03
 Collection Date: 03/26/10 02:20 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	58.6	3.06	10.2		mg/Kg-dry	1	04/05/10 01:38 PM
Surr: Isopropylbenzene	65.3	0	47 - 142		%REC	1	04/05/10 01:38 PM
Surr: Octacosane	101	0	25 - 162		%REC	1	04/05/10 01:38 PM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.100	0.201		mg/Kg-dry	1	03/30/10 07:36 PM
Surr: Tetrachlorethene	94.9	0	70 - 134		%REC	1	03/30/10 07:36 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00307	0.00512		mg/Kg-dry	1	03/30/10 01:29 PM
Ethylbenzene	ND	0.00512	0.0154		mg/Kg-dry	1	03/30/10 01:29 PM
Toluene	ND	0.00512	0.0154		mg/Kg-dry	1	03/30/10 01:29 PM
Xylenes, Total	ND	0.00512	0.0154		mg/Kg-dry	1	03/30/10 01:29 PM
Surr: Tetrachloroethene	94.4	0	79 - 135		%REC	1	03/30/10 01:29 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	128	5.19	10.4	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	5.41	5.18	5.18		mg/Kg-dry	1	04/06/10 10:35 AM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	4.29	0	0		WT%	1	03/30/10 03:30 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 04/08/10

CLIENT: Larson & Associates
 Project: Landfarm
 Project No: 6-0137
 Lab Order: 1003225

Client Sample ID: Cell 20 (0-1')
 Lab ID: 1003225-04
 Collection Date: 03/26/10 02:02 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	20.7	3.13	10.4		mg/Kg-dry	1	04/05/10 12:53 PM
Surr: Isopropylbenzene	69.6	0	47 - 142		%REC	1	04/05/10 12:53 PM
Surr: Octacosane	87.9	0	25 - 162		%REC	1	04/05/10 12:53 PM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.0947	0.189		mg/Kg-dry	1	03/30/10 07:58 PM
Surr: Tetrachlorethene	98.5	0	70 - 134		%REC	1	03/30/10 07:58 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00289	0.00482		mg/Kg-dry	1	03/30/10 01:51 PM
Ethylbenzene	ND	0.00482	0.0145		mg/Kg-dry	1	03/30/10 01:51 PM
Toluene	ND	0.00482	0.0145		mg/Kg-dry	1	03/30/10 01:51 PM
Xylenes, Total	ND	0.00482	0.0145		mg/Kg-dry	1	03/30/10 01:51 PM
Surr: Tetrachloroethene	92.9	0	79 - 135		%REC	1	03/30/10 01:51 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	47.7	5.30	10.6	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	11.5	5.21	5.21		mg/Kg-dry	1	04/08/10 10:04 AM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	5.72	0	0		WT%	1	03/30/10 03:30 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- N Parameter not NELAC certified
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Project: Landfarm
 Project No: 6-0137
 Lab Order: 1003225

Client Sample ID: Cell 21 (0-1')
 Lab ID: 1003225-05
 Collection Date: 03/26/10 03:15 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	132	3.08	10.3		mg/Kg-dry	1	04/05/10 02:59 PM
Surr: Isopropylbenzene	70.0	0	47 - 142		%REC	1	04/05/10 02:59 PM
Surr: Octacosane	144	0	25 - 162		%REC	1	04/05/10 02:59 PM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.0925	0.185		mg/Kg-dry	1	03/30/10 08:20 PM
Surr: Tetrachlorethene	99.6	0	70 - 134		%REC	1	03/30/10 08:20 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00288	0.00480		mg/Kg-dry	1	03/30/10 02:12 PM
Ethylbenzene	ND	0.00480	0.0144		mg/Kg-dry	1	03/30/10 02:12 PM
Toluene	ND	0.00480	0.0144		mg/Kg-dry	1	03/30/10 02:12 PM
Xylenes, Total	ND	0.00480	0.0144		mg/Kg-dry	1	03/30/10 02:12 PM
Surr: Tetrachloroethene	93.8	0	79 - 135		%REC	1	03/30/10 02:12 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	335	5.16	10.3	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	ND	5.12	5.12		mg/Kg-dry	1	04/06/10 10:47 AM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	3.46	0	0		WT%	1	03/30/10 03:30 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- N Parameter not NELAC certified
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: Landfarm
Project No: 6-0137
Lab Order: 1003225

Client Sample ID: Cell 25 (0-1')
Lab ID: 1003225-06
Collection Date: 03/26/10 03:45 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	49.2	3.09	10.3		mg/Kg-dry	1	04/05/10 02:05 PM
Surr: Isopropylbenzene	64.7	0	47 - 142		%REC	1	04/05/10 02:05 PM
Surr: Octacosane	97.5	0	25 - 162		%REC	1	04/05/10 02:05 PM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.0975	0.195		mg/Kg-dry	1	03/30/10 08:42 PM
Surr: Tetrachlorethene	96.2	0	70 - 134		%REC	1	03/30/10 08:42 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00277	0.00462		mg/Kg-dry	1	03/30/10 02:34 PM
Ethylbenzene	ND	0.00462	0.0138		mg/Kg-dry	1	03/30/10 02:34 PM
Toluene	ND	0.00462	0.0138		mg/Kg-dry	1	03/30/10 02:34 PM
Xylenes, Total	ND	0.00462	0.0138		mg/Kg-dry	1	03/30/10 02:34 PM
Surr: Tetrachloroethene	94.1	0	79 - 135		%REC	1	03/30/10 02:34 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	89.8	5.17	10.3	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	ND	5.09	5.09		mg/Kg-dry	1	04/06/10 10:58 AM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	3.27	0	0		WT%	1	03/30/10 03:30 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Project: Landfarm
 Project No: 6-0137
 Lab Order: 1003225

Client Sample ID: Cell 26 (0-1')
 Lab ID: 1003225-07
 Collection Date: 03/26/10 03:25 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	40.8	3.00	10.0		mg/Kg-dry	1	04/05/10 10:10 AM
Surr: Isopropylbenzene	58.5	0	47 - 142		%REC	1	04/05/10 10:10 AM
Surr: Octacosane	91.3	0	25 - 162		%REC	1	04/05/10 10:10 AM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.100	0.200		mg/Kg-dry	1	03/30/10 09:04 PM
Surr: Tetrachlorethene	95.3	0	70 - 134		%REC	1	03/30/10 09:04 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00300	0.00501		mg/Kg-dry	1	03/30/10 02:56 PM
Ethylbenzene	ND	0.00501	0.0150		mg/Kg-dry	1	03/30/10 02:56 PM
Toluene	ND	0.00501	0.0150		mg/Kg-dry	1	03/30/10 02:56 PM
Xylenes, Total	ND	0.00501	0.0150		mg/Kg-dry	1	03/30/10 02:56 PM
Surr: Tetrachloroethene	93.9	0	79 - 135		%REC	1	03/30/10 02:56 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	107	5.20	10.4	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	ND	5.21	5.21		mg/Kg-dry	1	04/06/10 11:39 AM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	3.99	0	0		WT%	1	03/30/10 03:30 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- N Parameter not NELAC certified
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Work Order: 1003225
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_100405A

Sample ID:	LCS-40292	Batch ID:	40292	TestNo:	M8015D	Units:	mg/Kg			
SampType:	LCS	Run ID:	GC15_100405A	Analysis Date:	04/05/10 07:49 AM	Prep Date:	04/01/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	89.6	10.0	125.0	0	71.7	50	114			
Surr: Isopropylbenzene	4.69		7.500		62.5	47	142			
Surr: Octacosane	5.19		7.500		69.2	25	162			
Sample ID:	MB-40292	Batch ID:	40292	TestNo:	M8015D	Units:	mg/Kg			
SampType:	MBLK	Run ID:	GC15_100405A	Analysis Date:	04/05/10 08:16 AM	Prep Date:	04/01/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	ND	10.0								
Surr: Isopropylbenzene	4.48		7.500		59.7	47	142			
Surr: Octacosane	4.52		7.500		60.2	25	162			
Sample ID:	1003225-04B-MS	Batch ID:	40292	TestNo:	M8015D	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	GC15_100405A	Analysis Date:	04/05/10 01:02 PM	Prep Date:	04/01/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	115	10.4	129.5	20.71	72.9	50	114			
Surr: Isopropylbenzene	5.39		7.768		69.4	47	142			
Surr: Octacosane	6.68		7.768		85.9	25	162			
Sample ID:	1003225-04B-MSD	Batch ID:	40292	TestNo:	M8015D	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	GC15_100405A	Analysis Date:	04/05/10 01:11 PM	Prep Date:	04/01/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	121	10.4	129.7	20.71	77.1	50	114	4.74	30	
Surr: Isopropylbenzene	5.26		7.784		67.5	47	142	0	0	
Surr: Octacosane	6.72		7.784		86.4	25	162	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1003225
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_100405A

Sample ID:	ICV-100405	Batch ID:	R48717	TestNo:	M8015D	Units:	mg/Kg
SampType:	ICV	Run ID:	GC15_100405A	Analysis Date:	04/05/10 07:37 AM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPD Limit Qual
TPH-DRO C10-C28		509	10.0	500.0	0	102	85 115
Surr: Isopropylbenzene		25.1		25.00		100	47 142
Surr: Octacosane		22.4		25.00		89.5	25 162

Sample ID:	CCV1-100405	Batch ID:	R48717	TestNo:	M8015D	Units:	mg/Kg
SampType:	CCV	Run ID:	GC15_100405A	Analysis Date:	04/05/10 09:55 AM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPD Limit Qual
TPH-DRO C10-C28		242	10.0	250.0	0	96.7	85 115
Surr: Isopropylbenzene		11.8		12.50		94.3	47 142
Surr: Octacosane		11.2		12.50		89.7	25 162

Sample ID:	CCV2-100405	Batch ID:	R48717	TestNo:	M8015D	Units:	mg/Kg
SampType:	CCV	Run ID:	GC15_100405A	Analysis Date:	04/05/10 12:07 PM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPD Limit Qual
TPH-DRO C10-C28		228	10.0	250.0	0	91.4	85 115
Surr: Isopropylbenzene		12.7		12.50		102	47 142
Surr: Octacosane		11.2		12.50		89.5	25 162

Sample ID:	CCV3-100405	Batch ID:	R48717	TestNo:	M8015D	Units:	mg/Kg
SampType:	CCV	Run ID:	GC15_100405A	Analysis Date:	04/05/10 03:52 PM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPD Limit Qual
TPH-DRO C10-C28		248	10.0	250.0	0	99.3	85 115
Surr: Isopropylbenzene		13.3		12.50		107	47 142
Surr: Octacosane		11.6		12.50		92.4	25 162

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1003225
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_100330A

Sample ID: LCS-40247	Batch ID: 40247	TestNo: SW8021B	Units: mg/Kg
SampType: LCS	Run ID: GC4_100330A	Analysis Date: 03/30/10 10:56 AM	Prep Date: 03/30/10
Analyte	Result	RL	SPK value
Benzene	0.0942	0.00500	0.1000
Toluene	0.0958	0.0150	0.1000
Ethylbenzene	0.0969	0.0150	0.1000
Xylenes, Total	0.292	0.0150	0.3000
Surr: Tetrachloroethene	0.187		0.2000

Sample ID: MB-40247	Batch ID: 40247	TestNo: SW8021B	Units: mg/Kg
SampType: MBLK	Run ID: GC4_100330A	Analysis Date: 03/30/10 11:18 AM	Prep Date: 03/30/10
Analyte	Result	RL	SPK value
Benzene	ND	0.00500	
Toluene	ND	0.0150	
Ethylbenzene	ND	0.0150	
Xylenes, Total	ND	0.0150	
Surr: Tetrachloroethene	0.177		0.2000

Sample ID: 1003225-07AMS	Batch ID: 40247	TestNo: SW8021B	Units: mg/Kg-dry
SampType: MS	Run ID: GC4_100330A	Analysis Date: 03/30/10 03:18 PM	Prep Date: 03/30/10
Analyte	Result	RL	SPK value
Benzene	0.0920	0.00491	0.09826
Toluene	0.0930	0.0147	0.09826
Ethylbenzene	0.0935	0.0147	0.09826
Xylenes, Total	0.280	0.0147	0.2948
Surr: Tetrachloroethene	0.177		0.1965

Sample ID: 1003225-07AMSD	Batch ID: 40247	TestNo: SW8021B	Units: mg/Kg-dry
SampType: MSD	Run ID: GC4_100330A	Analysis Date: 03/30/10 03:39 PM	Prep Date: 03/30/10
Analyte	Result	RL	SPK value
Benzene	0.0914	0.00482	0.09644
Toluene	0.0922	0.0145	0.09644
Ethylbenzene	0.0932	0.0145	0.09644
Xylenes, Total	0.279	0.0145	0.2893
Surr: Tetrachloroethene	0.172		0.1929

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1003225
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_100330A

Sample ID:	ICV-100330	Batch ID:	R48605	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	ICV	Run ID:	GC4_100330A	Analysis Date:	03/30/10 10:33 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0.170	0.00500	0.2000	0	85.0	80	120			
Toluene	0.182	0.0150	0.2000	0	91.0	80	120			
Ethylbenzene	0.188	0.0150	0.2000	0	93.9	80	120			
Xylenes, Total	0.564	0.0150	0.6000	0	93.9	80	120			
Surr: Tetrachloroethene	0.180		0.2000		90.0	79	135			

Sample ID:	CCV1-100330	Batch ID:	R48605	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	CCV	Run ID:	GC4_100330A	Analysis Date:	03/30/10 04:01 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0.0921	0.00500	0.1000	0	92.1	80	120			
Toluene	0.0948	0.0150	0.1000	0	94.8	80	120			
Ethylbenzene	0.0966	0.0150	0.1000	0	96.6	80	120			
Xylenes, Total	0.293	0.0150	0.3000	0	97.7	80	120			
Surr: Tetrachloroethene	0.178		0.2000		89.0	79	135			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1003225
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_100330B

Sample ID:	LCS-40262	Batch ID:	40262	TestNo:	M8015V	Units:	mg/Kg				
SampType:	LCS	Run ID:	GC4_100330B	Analysis Date:	03/30/10 05:45 PM	Prep Date:	03/30/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Gasoline Range Organics		4.87	0.200	5.000	0	97.4	68	126			
Surr: Tetrachlorethene		0.354		0.4000		88.5	70	134			
Sample ID:	MB-40262	Batch ID:	40262	TestNo:	M8015V	Units:	mg/Kg				
SampType:	MBLK	Run ID:	GC4_100330B	Analysis Date:	03/30/10 06:30 PM	Prep Date:	03/30/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Gasoline Range Organics		ND	0.200								
Surr: Tetrachlorethene		0.382		0.4000		95.5	70	134			
Sample ID:	1003225-07AMS	Batch ID:	40262	TestNo:	M8015V	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	GC4_100330B	Analysis Date:	03/30/10 09:26 PM	Prep Date:	03/30/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Gasoline Range Organics		4.21	0.193	4.822	0	87.4	68	126			
Surr: Tetrachlorethene		0.333		0.3858		86.4	70	134			
Sample ID:	1003225-07AMSD	Batch ID:	40262	TestNo:	M8015V	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	GC4_100330B	Analysis Date:	03/30/10 09:48 PM	Prep Date:	03/30/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Gasoline Range Organics		4.62	0.204	5.106	0	90.5	68	126	9.26	30	
Surr: Tetrachlorethene		0.360		0.4085		88.1	70	134	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1003225
Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_100330B

Sample ID:	ICV-100330	Batch ID:	R48615	TestNo:	M8015V	Units:	mg/Kg			
SampType:	ICV	Run ID:	GC4_100330B	Analysis Date:	03/30/10 05:23 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Gasoline Range Organics	9.42	0.200	10.00	0	94.2	80	120			
Surr: Tetrachlorethene	0.313		0.4000		78.3	70	134			

Sample ID:	CCV1-100330	Batch ID:	R48615	TestNo:	M8015V	Units:	mg/Kg			
SampType:	CCV	Run ID:	GC4_100330B	Analysis Date:	03/30/10 10:10 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Gasoline Range Organics	5.00	0.200	5.000	0	100	80	120			
Surr: Tetrachlorethene	0.344		0.4000		86.0	70	134			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1003225
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_100406A

Sample ID:	LCS-40334	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg				
SampType:	LCS	Run ID:	IC2_100406A	Analysis Date:	04/06/10 09:13 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		47.2	5.00	50.00	0	94.5	80	120			
Sample ID:	LCSD-40334	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg				
SampType:	LCSD	Run ID:	IC2_100406A	Analysis Date:	04/06/10 09:24 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		47.5	5.00	50.00	0	94.9	80	120	0.448	20	
Sample ID:	MB-40334	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg				
SampType:	MBLK	Run ID:	IC2_100406A	Analysis Date:	04/06/10 09:36 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	5.00								
Sample ID:	1003225-02B MS	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	IC2_100406A	Analysis Date:	04/06/10 10:13 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		49.2	5.17	51.72	0	95.1	80	120			
Sample ID:	1003225-02B MSD	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	IC2_100406A	Analysis Date:	04/06/10 10:24 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		49.8	5.17	51.72	0	96.2	80	120	1.19	20	
Sample ID:	1004002-01B MS	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	IC2_100406A	Analysis Date:	04/06/10 12:01 PM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		58.1	5.74	57.40	4.816	92.8	80	120			
Sample ID:	1004002-01B MSD	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	IC2_100406A	Analysis Date:	04/06/10 12:12 PM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		57.9	5.74	57.40	4.816	92.5	80	120	0.299	20	

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1003225
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_100406A

Sample ID:	ICV-100406	Batch ID:	R48718	TestNo:	E300	Units:	mg/Kg				
SampType:	ICV	Run ID:	IC2_100406A	Analysis Date:	04/06/10 08:56 AM	Prep Date:	04/06/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		24.2	5.00	25.00	0	96.8	90	110			
Sample ID:	CCV1-100406	Batch ID:	R48718	TestNo:	E300	Units:	mg/Kg				
SampType:	CCV	Run ID:	IC2_100406A	Analysis Date:	04/06/10 11:09 AM	Prep Date:	04/06/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.48	5.00	10.00	0	94.8	90	110			
Sample ID:	CCV2-100406	Batch ID:	R48718	TestNo:	E300	Units:	mg/Kg				
SampType:	CCV	Run ID:	IC2_100406A	Analysis Date:	04/06/10 01:30 PM	Prep Date:	04/06/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.51	5.00	10.00	0	95.1	90	110			

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1003225
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_100408A

Sample ID:	LCS-40407	Batch ID:	40407	TestNo:	E300	Units:	mg/Kg				
SampType:	LCS	Run ID:	IC2_100408A	Analysis Date:	04/08/10 09:21 AM	Prep Date:	04/07/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		46.2	5.00	50.00	0	92.3	80	120			
Sample ID:	LCSD-40407	Batch ID:	40407	TestNo:	E300	Units:	mg/Kg				
SampType:	LCSD	Run ID:	IC2_100408A	Analysis Date:	04/08/10 09:31 AM	Prep Date:	04/07/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		46.8	5.00	50.00	0	93.7	80	120	1.44	20	
Sample ID:	MB-40407	Batch ID:	40407	TestNo:	E300	Units:	mg/Kg				
SampType:	MBLK	Run ID:	IC2_100408A	Analysis Date:	04/08/10 09:42 AM	Prep Date:	04/07/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	5.00								
Sample ID:	1003225-04B MS	Batch ID:	40407	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	IC2_100408A	Analysis Date:	04/08/10 10:20 AM	Prep Date:	04/07/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		54.9	5.21	52.10	6.920	92.2	80	120			
Sample ID:	1003225-04B MSD	Batch ID:	40407	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	IC2_100408A	Analysis Date:	04/08/10 10:31 AM	Prep Date:	04/07/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		55.0	5.21	52.10	6.920	92.3	80	120	0.129	20	

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1003225
Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_100408A

Sample ID:	ICV-100408	Batch ID:	R48776	TestNo:	E300	Units:	mg/Kg				
SampType:	ICV	Run ID:	IC2_100408A	Analysis Date:	04/08/10 09:06 AM	Prep Date:	04/08/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		24.2	5.00	25.00	0	96.9	90	110			
Sample ID:	CCV1-100408	Batch ID:	R48776	TestNo:	E300	Units:	mg/Kg				
SampType:	CCV	Run ID:	IC2_100408A	Analysis Date:	04/08/10 10:42 AM	Prep Date:	04/08/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.37	5.00	10.00	0	93.7	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1003225
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_100405A

Sample ID:	MBLK-40361	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg				
SampType:	MBLK	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		ND	10.0								N
Sample ID:	LCS-40361	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg				
SampType:	LCS	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		86.2	10.0	100.0	0	86.2	80	120			N
Sample ID:	LCSD-40361	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg				
SampType:	LCSD	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		89.4	10.0	100.0	0	89.4	80	120	3.56	20	N
Sample ID:	1003225-07B MS	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		194	10.4	104.1	107.2	83.9	80	120			N
Sample ID:	1003225-07B MSD	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		200	10.3	103.2	107.2	89.9	80	120	2.82	20	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1003225
Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_100405A

Sample ID:	ICV-100405	Batch ID:	418_S-04/05/2010	TestNo:	E418.1	Units:	mg/Kg				
SampType:	ICV	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		231	10.0	250.0	0	92.5	90	110			N

Sample ID:	CCV1-100405	Batch ID:	418_S-04/05/2010	TestNo:	E418.1	Units:	mg/Kg				
SampType:	CCV	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		230	10.0	250.0	0	92.0	85	115			N

Sample ID:	CCV2-100405	Batch ID:	418_S-04/05/2010	TestNo:	E418.1	Units:	mg/Kg				
SampType:	CCV	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		238	10.0	250.0	0	95.0	85	115			N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1003225
Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_100330B

Sample ID:	1003226-06A-DUP	Batch ID:	40248	TestNo:	D2216	Units:	WT%			
SampType:	DUP	Run ID:	PMOIST_100330B	Analysis Date:	03/30/10 03:30 PM	Prep Date:	03/30/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	12.1	0	0	12.64				4.44	30	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified



April 15, 2010

Michelle Green
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701

Order No: 1004002

TEL: (432) 687-0901
FAX: (432) 687-0456

RE: Chevron Landfarm

Dear Michelle Green:

DHL Analytical received 7 sample(s) on 4/1/2010 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number:
T104704211-09-1



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Larson &
Associates, Inc.
Environmental Consultants

507 N. Mariefeld, Ste. 200
Midland, TX 79701
432-687-0901

PAGE 1 OF 1

LAB WORK ORDER #: 1004002

PROJECT LOCATION OR NAME: *Chevron Land farm*

LAI PROJECT #: 6-0137

COLLECTOR: *ms*

Data Reported to: *M. Green*

TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION		ANALYSES		FIELD NOTES	
TIME ZONE: Time zone/State: MST / NM											
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ NaOH	ICE	UNPRESERVED	
Cell 26 (4-5')	01	3/31/10	8:41	S	2				X	X	X
Cell 25 (4-5')	02		8:56								
Cell 21 (4-5')	03		9:11								
Cell 17 (4-5')	04		9:25								
Cell 18 (4-5')	05		9:40								
Cell 19 (4-5')	06		9:56								
Cell 20 (4-5')	07		10:09								
TOTAL RELINQUISHED BY: (Signature) <i>[Signature]</i> DATE/TIME MST 3/31/10 2:30 pm RECEIVED BY: (Signature) LSO RELINQUISHED BY: (Signature) LSO DATE/TIME 4/1/10 0820 RECEIVED BY: (Signature) <i>[Signature]</i> RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)											



Airbill No. Z6115372

Lone Star Overnight
800.800.8984
www.lso.com

To: SAMPLE RECEIVING
DHL ANALYTICAL
2300 DOUBLE CREEK DRIVE
ROUND ROCK, TX 78664
(512) 388 - 8222

From: MICHELLE GREEN
LARSON & ASSOCIATES, INC.
507 N MARIENFELD
SUITE 200
MIDLAND, TX 79701
(432) 687 - 0901

Service Type: By 10:30am
1D00V

AUS

By 10:30am

QuickCode: DHL
Date Printed: 3/31/2010
Billing Ref 1: 6-0137



Sample Receipt Checklist

Client Name **Larson & Associates**

Date Received: **4/1/2010**

Work Order Number **1004002**

Received by **AK**

Checklist completed by: *OBank* 4/1/10
Signature Date

Reviewed by SS 4-1-10
Initials Date

Carrier name: LoneStar

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	2.6 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: Chevron Landfarm
Lab Order: 1004002

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method SW7471A - Mercury Analysis
Method SW8021B - Volatile Organics by GC
Method E300 - Anions Analysis
Method M8015D - DRO Analysis
Method M8015V - GRO Analysis
Method E418.1 - TRPH Analysis (This parameter is not NELAC certified)
Method 1312/6020 - SPLP Metals Analysis
Method D2216 - Percent Moisture

LOG IN

The samples were received and log-in performed on 4/1/10. A total of 7 samples were received. The Time of Collection was Mountain Standard Time. On 4/8/10 SPLP Metals analysis was added on to all samples as per the client. This was performed as requested. The samples arrived in good condition and were properly packaged.

METALS ANALYSIS

For Metals analysis performed on 4/6/10 (batch 40349) the matrix spike and matrix spike duplicate recoveries were out of control limits for Barium and/or Iron. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Metals analysis performed on 4/6/10 (batch 40349) the RPD for the serial dilution was above control limits for some analytes. These are flagged accordingly. The PDS was within control limits for these analytes. No further corrective actions were taken.

SPLP METALS ANALYSIS

For SPLP Metals analysis Barium was detected below the reporting limit in the SPLP method blank (MB-40526 SPLP). The batch method blank was below detection limits for this analyte. No further corrective actions were taken.

CLIENT: Larson & Associates
Project: Chevron Landfarm
Lab Order: 1004002

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1004002-01	Cell 26 (4-5')		03/31/10 08:41 AM	04/01/10
1004002-02	Cell 25 (4-5')		03/31/10 08:56 AM	04/01/10
1004002-03	Cell 21 (4-5')		03/31/10 09:11 AM	04/01/10
1004002-04	Cell 17 (4-5')		03/31/10 09:25 AM	04/01/10
1004002-05	Cell 18 (4-5')		03/31/10 09:40 AM	04/01/10
1004002-06	Cell 19 (4-5')		03/31/10 09:56 AM	04/01/10
1004002-07	Cell 20 (4-5')		03/31/10 10:09 AM	04/01/10

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Lab Order: 1004002

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1004002-01A	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	04/01/10 05:10 PM	40314
	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	SW5030B	Purge and Trap Soils GC	04/02/10 10:12 AM	40328
1004002-01B	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/05/10 11:11 AM	40357
	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	D2216	Moisture Preparation	04/05/10 11:00 AM	40336
	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/14/10 08:46 AM	40538
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/13/10 08:26 AM	40517
1004002-02A	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	04/01/10 05:10 PM	40314
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW5030B	Purge and Trap Soils GC	04/02/10 10:12 AM	40328
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/05/10 11:11 AM	40357
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	D2216	Moisture Preparation	04/05/10 11:00 AM	40336
	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/14/10 08:46 AM	40538
1004002-03A	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	04/01/10 05:10 PM	40314
	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	SW5030B	Purge and Trap Soils GC	04/02/10 10:12 AM	40328
1004002-03B	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/05/10 11:11 AM	40357
	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Lab Order: 1004002

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1004002-04A	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	D2216	Moisture Preparation	04/05/10 11:00 AM	40336
	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/14/10 08:46 AM	40538
	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	04/01/10 05:10 PM	40314
1004002-04B	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	SW5030B	Purge and Trap Soils GC	04/02/10 10:12 AM	40328
	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/05/10 11:11 AM	40357
1004002-05A	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	D2216	Moisture Preparation	04/05/10 11:00 AM	40336
	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/14/10 08:46 AM	40538
	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
1004002-05B	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	04/01/10 05:10 PM	40314
	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	SW5030B	Purge and Trap Soils GC	04/02/10 10:12 AM	40328
	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
1004002-06A	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/05/10 11:11 AM	40357
	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	D2216	Moisture Preparation	04/05/10 11:00 AM	40336
1004002-06B	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/14/10 08:46 AM	40538
	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	04/01/10 05:10 PM	40314
	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	SW5030B	Purge and Trap Soils GC	04/02/10 10:12 AM	40328
1004002-06B	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/05/10 11:11 AM	40357
	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Lab Order: 1004002

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1004002-07A	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	D2216	Moisture Preparation	04/05/10 11:00 AM	40336
	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/14/10 08:46 AM	40538
	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/05/10 09:00 AM	40361
	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/13/10 08:26 AM	40517
	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	04/01/10 05:10 PM	40314
1004002-07B	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	SW5030B	Purge and Trap Soils GC	04/02/10 10:12 AM	40328
	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	SW3550B	Soil Prep Sonication: DRO	04/01/10 08:43 AM	40292
	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	E300	Anion Prep	04/02/10 01:06 PM	40334
	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/05/10 11:11 AM	40357
	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/05/10 09:12 AM	40349
	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	D2216	Moisture Preparation	04/05/10 11:00 AM	40336
	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/14/10 08:46 AM	40538

CLIENT: Larson & Associates
Project: Chevron Landfarm
Lab Order: 1004002

TCLP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1004002-01B	Cell 26 (4-5')	03/31/10 08:41 AM	Soil	SW1312	SPLP Sample Prep (Metals)	04/13/10 03:30 PM	40526
1004002-02B	Cell 25 (4-5')	03/31/10 08:56 AM	Soil	SW1312	SPLP Sample Prep (Metals)	04/13/10 03:30 PM	40526
1004002-03B	Cell 21 (4-5')	03/31/10 09:11 AM	Soil	SW1312	SPLP Sample Prep (Metals)	04/13/10 03:30 PM	40526
1004002-04B	Cell 17 (4-5')	03/31/10 09:25 AM	Soil	SW1312	SPLP Sample Prep (Metals)	04/13/10 03:30 PM	40526
1004002-05B	Cell 18 (4-5')	03/31/10 09:40 AM	Soil	SW1312	SPLP Sample Prep (Metals)	04/13/10 03:30 PM	40526
1004002-06B	Cell 19 (4-5')	03/31/10 09:56 AM	Soil	SW1312	SPLP Sample Prep (Metals)	04/13/10 03:30 PM	40526
1004002-07B	Cell 20 (4-5')	03/31/10 10:09 AM	Soil	SW1312	SPLP Sample Prep (Metals)	04/13/10 03:30 PM	40526

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Lab Order: 1004002

ANALYTICAL DATA REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1004002-01A	Cell 26 (4-5')	Soil	M8015V	Method 8015 Gasoline (GRO)	40314	1	04/01/10 07:23 PM	GC4_100401A
	Cell 26 (4-5')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 26 (4-5')	Soil	SW8021B	Volatile Organics by GC	40328	1	04/02/10 11:37 AM	GC4_100402A
1004002-01B	Cell 26 (4-5')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 11:50 AM	IC2_100406A
	Cell 26 (4-5')	Soil	D2216	Percent Moisture	40336	1	04/05/10 03:00 PM	PMOIST_100405B
	Cell 26 (4-5')	Soil	SW1312/6020	SPLP Metals	40538	1	04/14/10 01:42 PM	ICP-MS2_100414B
	Cell 26 (4-5')	Soil	SW7471A	Total Mercury: Soil/Solid	40357	1	04/07/10 02:12 PM	CETAC_HG_100407C
	Cell 26 (4-5')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 08:34 AM	GC15_100405A
	Cell 26 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	5	04/06/10 12:42 PM	ICP-MS2_100406A
	Cell 26 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	25	04/06/10 04:12 PM	ICP-MS2_100406A
	Cell 26 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	25	04/06/10 04:12 PM	ICP-MS2_100406A
1004002-02A	Cell 25 (4-5')	Soil	M8015V	Method 8015 Gasoline (GRO)	40314	1	04/01/10 07:46 PM	GC4_100401A
	Cell 25 (4-5')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 25 (4-5')	Soil	E418.1	TRPH	40517	1	04/13/10 11:00 AM	IR207_100413A
	Cell 25 (4-5')	Soil	SW8021B	Volatile Organics by GC	40328	1	04/02/10 11:59 AM	GC4_100402A
1004002-02B	Cell 25 (4-5')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 12:24 PM	IC2_100406A
	Cell 25 (4-5')	Soil	D2216	Percent Moisture	40336	1	04/05/10 03:00 PM	PMOIST_100405B
	Cell 25 (4-5')	Soil	SW1312/6020	SPLP Metals	40538	1	04/14/10 01:10 PM	ICP-MS2_100414B
	Cell 25 (4-5')	Soil	SW7471A	Total Mercury: Soil/Solid	40357	1	04/07/10 02:26 PM	CETAC_HG_100407C
	Cell 25 (4-5')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 08:43 AM	GC15_100405A
	Cell 25 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	5	04/06/10 12:10 PM	ICP-MS2_100406A
	Cell 25 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	25	04/06/10 03:50 PM	ICP-MS2_100406A
	Cell 25 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	25	04/06/10 03:50 PM	ICP-MS2_100406A
1004002-03A	Cell 21 (4-5')	Soil	M8015V	Method 8015 Gasoline (GRO)	40314	1	04/01/10 08:08 PM	GC4_100401A
	Cell 21 (4-5')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 21 (4-5')	Soil	SW8021B	Volatile Organics by GC	40328	1	04/02/10 12:21 PM	GC4_100402A
1004002-03B	Cell 21 (4-5')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 12:35 PM	IC2_100406A
	Cell 21 (4-5')	Soil	D2216	Percent Moisture	40336	1	04/05/10 03:00 PM	PMOIST_100405B
	Cell 21 (4-5')	Soil	SW1312/6020	SPLP Metals	40538	1	04/14/10 01:15 PM	ICP-MS2_100414B
	Cell 21 (4-5')	Soil	SW7471A	Total Mercury: Soil/Solid	40357	1	04/07/10 02:28 PM	CETAC_HG_100407C
	Cell 21 (4-5')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 03:26 PM	GC15_100405A
	Cell 21 (4-5')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 03:26 PM	GC15_100405A

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Lab Order: 1004002

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1004002-04A	Cell 21 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	5	04/06/10 12:15 PM	ICP-MS2_100406A
	Cell 21 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	25	04/06/10 03:55 PM	ICP-MS2_100406A
	Cell 17 (4-5')	Soil	M8015V	Method 8015 Gasoline (GRO)	40314	1	04/01/10 08:31 PM	GC4_100401A
	Cell 17 (4-5')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
1004002-04B	Cell 17 (4-5')	Soil	SW8021B	Volatile Organics by GC	40328	1	04/02/10 12:43 PM	GC4_100402A
	Cell 17 (4-5')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 12:46 PM	IC2_100406A
	Cell 17 (4-5')	Soil	D2216	Percent Moisture	40336	1	04/05/10 03:00 PM	PMOIST_100405B
	Cell 17 (4-5')	Soil	SW1312/6020	SPLP Metals	40538	1	04/14/10 01:21 PM	ICP-MS2_100414B
1004002-05A	Cell 17 (4-5')	Soil	SW7471A	Total Mercury: Soil/Solid	40357	1	04/07/10 02:30 PM	CETAC_HG_100407C
	Cell 17 (4-5')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 08:52 AM	GC15_100405A
	Cell 17 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	5	04/06/10 12:21 PM	ICP-MS2_100406A
	Cell 18 (4-5')	Soil	M8015V	Method 8015 Gasoline (GRO)	40314	1	04/01/10 08:53 PM	GC4_100401A
1004002-05B	Cell 18 (4-5')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 18 (4-5')	Soil	SW8021B	Volatile Organics by GC	40328	1	04/02/10 01:05 PM	GC4_100402A
	Cell 18 (4-5')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 12:57 PM	IC2_100406A
	Cell 18 (4-5')	Soil	D2216	Percent Moisture	40336	1	04/05/10 03:00 PM	PMOIST_100405B
1004002-06A	Cell 18 (4-5')	Soil	SW1312/6020	SPLP Metals	40538	1	04/14/10 01:26 PM	ICP-MS2_100414B
	Cell 18 (4-5')	Soil	SW7471A	Total Mercury: Soil/Solid	40357	1	04/07/10 02:33 PM	CETAC_HG_100407C
	Cell 18 (4-5')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 09:01 AM	GC15_100405A
	Cell 18 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	5	04/06/10 12:26 PM	ICP-MS2_100406A
1004002-06B	Cell 18 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	25	04/06/10 04:01 PM	ICP-MS2_100406A
	Cell 19 (4-5')	Soil	M8015V	Method 8015 Gasoline (GRO)	40314	1	04/01/10 09:15 PM	GC4_100401A
	Cell 19 (4-5')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 19 (4-5')	Soil	SW8021B	Volatile Organics by GC	40328	1	04/02/10 01:27 PM	GC4_100402A
1004002-06B	Cell 19 (4-5')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 01:08 PM	IC2_100406A
	Cell 19 (4-5')	Soil	D2216	Percent Moisture	40336	1	04/05/10 03:00 PM	PMOIST_100405B
	Cell 19 (4-5')	Soil	SW1312/6020	SPLP Metals	40538	1	04/14/10 01:32 PM	ICP-MS2_100414B
	Cell 19 (4-5')	Soil	SW7471A	Total Mercury: Soil/Solid	40357	1	04/07/10 02:35 PM	CETAC_HG_100407C
	Cell 19 (4-5')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 09:10 AM	GC15_100405A

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Lab Order: 1004002

ANALYTICAL DATA REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1004002-07A	Cell 19 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	5	04/06/10 12:31 PM	ICP-MS2_100406A
	Cell 19 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	25	04/06/10 04:06 PM	ICP-MS2_100406A
	Cell 20 (4-5')	Soil	M8015V	Method 8015 Gasoline (GRO)	40314	1	04/01/10 09:37 PM	GC4_100401A
	Cell 20 (4-5')	Soil	E418.1	TRPH	40361	1	04/05/10 01:10 PM	IR207_100405A
	Cell 20 (4-5')	Soil	E418.1	TRPH	40517	1	04/13/10 11:00 AM	IR207_100413A
1004002-07B	Cell 20 (4-5')	Soil	SW8021B	Volatile Organics by GC	40328	1	04/02/10 01:49 PM	GC4_100402A
	Cell 20 (4-5')	Soil	E300	Anions by IC method - Soil	40334	1	04/06/10 01:19 PM	IC2_100406A
	Cell 20 (4-5')	Soil	D2216	Percent Moisture	40336	1	04/05/10 03:00 PM	PMOIST_100405B
	Cell 20 (4-5')	Soil	SW1312/6020	SPLP Metals	40538	1	04/14/10 01:37 PM	ICP-MS2_100414B
	Cell 20 (4-5')	Soil	SW7471A	Total Mercury: Soil/Solid	40357	1	04/07/10 02:37 PM	CETAC_HG_100407C
	Cell 20 (4-5')	Soil	M8015D	TPH Extractable by GC - Soil	40292	1	04/05/10 09:19 AM	GC15_100405A
	Cell 20 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40349	5	04/06/10 12:37 PM	ICP-MS2_100406A

CLIENT: Larson & Associates
Project: Chevron Landfarm
Project No: 6-0137
Lab Order: 1004002

Client Sample ID: Cell 26 (4-5')
Lab ID: 1004002-01
Collection Date: 03/31/10 08:41 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	ND	3.38	11.3		mg/Kg-dry	1	04/05/10 08:34 AM
Surr: Isopropylbenzene	58.1	0	47 - 142		%REC	1	04/05/10 08:34 AM
Surr: Octacosane	63.3	0	25 - 162		%REC	1	04/05/10 08:34 AM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.109	0.219		mg/Kg-dry	1	04/01/10 07:23 PM
Surr: Tetrachlorethene	98.0	0	70 - 134		%REC	1	04/01/10 07:23 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00341	0.00568		mg/Kg-dry	1	04/02/10 11:37 AM
Ethylbenzene	ND	0.00568	0.0171		mg/Kg-dry	1	04/02/10 11:37 AM
Toluene	ND	0.00568	0.0171		mg/Kg-dry	1	04/02/10 11:37 AM
Xylenes, Total	ND	0.00568	0.0171		mg/Kg-dry	1	04/02/10 11:37 AM
Surr: Tetrachloroethene	90.7	0	79 - 135		%REC	1	04/02/10 11:37 AM
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0173	0.0432		mg/Kg-dry	1	04/07/10 02:12 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	3.64	0.547	1.09		mg/Kg-dry	5	04/06/10 12:42 PM
Barium	362	0.547	2.19		mg/Kg-dry	5	04/06/10 12:42 PM
Cadmium	ND	0.109	0.328		mg/Kg-dry	5	04/06/10 12:42 PM
Chromium	4.04	0.547	2.19		mg/Kg-dry	5	04/06/10 12:42 PM
Copper	3.14	0.547	2.19		mg/Kg-dry	5	04/06/10 12:42 PM
Iron	2650	68.4	68.4		mg/Kg-dry	25	04/06/10 04:12 PM
Lead	1.92	0.109	0.328		mg/Kg-dry	5	04/06/10 12:42 PM
Manganese	31.5	0.547	2.19		mg/Kg-dry	5	04/06/10 12:42 PM
Selenium	0.532	0.164	0.547	J	mg/Kg-dry	5	04/06/10 12:42 PM
Silver	ND	0.109	0.219		mg/Kg-dry	5	04/06/10 12:42 PM
Zinc	8.99	1.09	2.73		mg/Kg-dry	5	04/06/10 12:42 PM
SPLP Metals		SW1312/6020					Analyst: KL
Arsenic	ND	0.00200	0.00600		mg/L	1	04/14/10 01:42 PM
Barium	0.121	0.00300	0.0100		mg/L	1	04/14/10 01:42 PM
Copper	ND	0.00200	0.0100		mg/L	1	04/14/10 01:42 PM
Iron	0.401	0.0500	0.150		mg/L	1	04/14/10 01:42 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	ND	5.76	11.5	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	8.03	5.74	5.74		mg/Kg-dry	1	04/06/10 11:50 AM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	13.8	0	0		WT%	1	04/05/10 03:00 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
MDL Method Detection Limit
N Parameter not NELAC certified
ND Not Detected at the Method Detection Limit
RL Reporting Limit
S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Project No: 6-0137
 Lab Order: 1004002

Client Sample ID: Cell 25 (4-5')
 Lab ID: 1004002-02
 Collection Date: 03/31/10 08:56 AM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	ND	3.25	10.8		mg/Kg-dry	1	04/05/10 08:43 AM
Surr: Isopropylbenzene	60.4	0	47 - 142		%REC	1	04/05/10 08:43 AM
Surr: Octacosane	65.3	0	25 - 162		%REC	1	04/05/10 08:43 AM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.0988	0.198		mg/Kg-dry	1	04/01/10 07:46 PM
Surr: Tetrachlorethene	93.9	0	70 - 134		%REC	1	04/01/10 07:46 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00319	0.00532		mg/Kg-dry	1	04/02/10 11:59 AM
Ethylbenzene	ND	0.00532	0.0160		mg/Kg-dry	1	04/02/10 11:59 AM
Toluene	ND	0.00532	0.0160		mg/Kg-dry	1	04/02/10 11:59 AM
Xylenes, Total	ND	0.00532	0.0160		mg/Kg-dry	1	04/02/10 11:59 AM
Surr: Tetrachloroethene	92.4	0	79 - 135		%REC	1	04/02/10 11:59 AM
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0166	0.0416		mg/Kg-dry	1	04/07/10 02:26 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	4.11	0.522	1.04		mg/Kg-dry	5	04/06/10 12:10 PM
Barium	377	0.522	2.09		mg/Kg-dry	5	04/06/10 12:10 PM
Cadmium	ND	0.104	0.313		mg/Kg-dry	5	04/06/10 12:10 PM
Chromium	3.87	0.522	2.09		mg/Kg-dry	5	04/06/10 12:10 PM
Copper	3.22	0.522	2.09		mg/Kg-dry	5	04/06/10 12:10 PM
Iron	2760	65.3	65.3		mg/Kg-dry	25	04/06/10 03:50 PM
Lead	1.75	0.104	0.313		mg/Kg-dry	5	04/06/10 12:10 PM
Manganese	31.2	0.522	2.09		mg/Kg-dry	5	04/06/10 12:10 PM
Selenium	0.475	0.157	0.522	J	mg/Kg-dry	5	04/06/10 12:10 PM
Silver	ND	0.104	0.209		mg/Kg-dry	5	04/06/10 12:10 PM
Zinc	8.60	1.04	2.61		mg/Kg-dry	5	04/06/10 12:10 PM
SPLP Metals		SW1312/6020					Analyst: KL
Arsenic	ND	0.00200	0.00600		mg/L	1	04/14/10 01:10 PM
Barium	0.188	0.00300	0.0100		mg/L	1	04/14/10 01:10 PM
Copper	ND	0.00200	0.0100		mg/L	1	04/14/10 01:10 PM
Iron	0.267	0.0500	0.150		mg/L	1	04/14/10 01:10 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	ND	5.50	11.0	N	mg/Kg-dry	1	04/13/10 11:00 AM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	5.65	5.49	5.49		mg/Kg-dry	1	04/06/10 12:24 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	9.67	0	0		WT%	1	04/05/10 03:00 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Project No: 6-0137
 Lab Order: 1004002

Client Sample ID: Cell 21 (4-5')
 Lab ID: 1004002-03
 Collection Date: 03/31/10 09:11 AM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	62.3	2.99	9.97		mg/Kg-dry	1	04/05/10 03:26 PM
Surr: Isopropylbenzene	70.0	0	47 - 142		%REC	1	04/05/10 03:26 PM
Surr: Octacosane	108	0	25 - 162		%REC	1	04/05/10 03:26 PM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.106	0.212		mg/Kg-dry	1	04/01/10 08:08 PM
Surr: Tetrachlorethene	98.6	0	70 - 134		%REC	1	04/01/10 08:08 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00300	0.00500		mg/Kg-dry	1	04/02/10 12:21 PM
Ethylbenzene	ND	0.00500	0.0150		mg/Kg-dry	1	04/02/10 12:21 PM
Toluene	ND	0.00500	0.0150		mg/Kg-dry	1	04/02/10 12:21 PM
Xylenes, Total	ND	0.00500	0.0150		mg/Kg-dry	1	04/02/10 12:21 PM
Surr: Tetrachloroethene	91.5	0	79 - 135		%REC	1	04/02/10 12:21 PM
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	0.0171	0.0166	0.0415	J	mg/Kg-dry	1	04/07/10 02:28 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	3.58	0.505	1.01		mg/Kg-dry	5	04/06/10 12:15 PM
Barium	202	0.505	2.02		mg/Kg-dry	5	04/06/10 12:15 PM
Cadmium	ND	0.101	0.303		mg/Kg-dry	5	04/06/10 12:15 PM
Chromium	6.43	0.505	2.02		mg/Kg-dry	5	04/06/10 12:15 PM
Copper	3.89	0.505	2.02		mg/Kg-dry	5	04/06/10 12:15 PM
Iron	4440	63.1	63.1		mg/Kg-dry	25	04/06/10 03:55 PM
Lead	4.69	0.101	0.303		mg/Kg-dry	5	04/06/10 12:15 PM
Manganese	49.2	0.505	2.02		mg/Kg-dry	5	04/06/10 12:15 PM
Selenium	0.604	0.151	0.505		mg/Kg-dry	5	04/06/10 12:15 PM
Silver	ND	0.101	0.202		mg/Kg-dry	5	04/06/10 12:15 PM
Zinc	14.4	1.01	2.52		mg/Kg-dry	5	04/06/10 12:15 PM
SPLP Metals		SW1312/6020					Analyst: KL
Arsenic	ND	0.00200	0.00600		mg/L	1	04/14/10 01:15 PM
Barium	0.122	0.00300	0.0100		mg/L	1	04/14/10 01:15 PM
Copper	0.00222	0.00200	0.0100	J	mg/L	1	04/14/10 01:15 PM
Iron	0.251	0.0500	0.150		mg/L	1	04/14/10 01:15 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	317	5.38	10.8	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	17.5	5.39	5.39		mg/Kg-dry	1	04/06/10 12:35 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	7.41	0	0		WT%	1	04/05/10 03:00 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Project No: 6-0137
 Lab Order: 1004002

Client Sample ID: Cell 17 (4-5')
 Lab ID: 1004002-04
 Collection Date: 03/31/10 09:25 AM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	ND	3.16	10.5		mg/Kg-dry	1	04/05/10 08:52 AM
Surr: Isopropylbenzene	60.3	0	47 - 142		%REC	1	04/05/10 08:52 AM
Surr: Octacosane	62.3	0	25 - 162		%REC	1	04/05/10 08:52 AM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.104	0.208		mg/Kg-dry	1	04/01/10 08:31 PM
Surr: Tetrachlorethene	98.9	0	70 - 134		%REC	1	04/01/10 08:31 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00313	0.00521		mg/Kg-dry	1	04/02/10 12:43 PM
Ethylbenzene	ND	0.00521	0.0156		mg/Kg-dry	1	04/02/10 12:43 PM
Toluene	ND	0.00521	0.0156		mg/Kg-dry	1	04/02/10 12:43 PM
Xylenes, Total	ND	0.00521	0.0156		mg/Kg-dry	1	04/02/10 12:43 PM
Surr: Tetrachloroethene	93.5	0	79 - 135		%REC	1	04/02/10 12:43 PM
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0161	0.0403		mg/Kg-dry	1	04/07/10 02:30 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	3.84	0.506	1.01		mg/Kg-dry	5	04/06/10 12:21 PM
Barium	452	0.506	2.02		mg/Kg-dry	5	04/06/10 12:21 PM
Cadmium	0.104	0.101	0.304	J	mg/Kg-dry	5	04/06/10 12:21 PM
Chromium	3.38	0.506	2.02		mg/Kg-dry	5	04/06/10 12:21 PM
Copper	2.95	0.506	2.02		mg/Kg-dry	5	04/06/10 12:21 PM
Iron	2220	12.7	12.7		mg/Kg-dry	5	04/06/10 12:21 PM
Lead	1.70	0.101	0.304		mg/Kg-dry	5	04/06/10 12:21 PM
Manganese	24.6	0.506	2.02		mg/Kg-dry	5	04/06/10 12:21 PM
Selenium	0.380	0.152	0.506	J	mg/Kg-dry	5	04/06/10 12:21 PM
Silver	ND	0.101	0.202		mg/Kg-dry	5	04/06/10 12:21 PM
Zinc	6.09	1.01	2.53		mg/Kg-dry	5	04/06/10 12:21 PM
SPLP Metals		SW1312/6020					Analyst: KL
Arsenic	ND	0.00200	0.00600		mg/L	1	04/14/10 01:21 PM
Barium	0.105	0.00300	0.0100		mg/L	1	04/14/10 01:21 PM
Copper	ND	0.00200	0.0100		mg/L	1	04/14/10 01:21 PM
Iron	ND	0.0500	0.150		mg/L	1	04/14/10 01:21 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	ND	5.28	10.6	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	134	5.22	5.22		mg/Kg-dry	1	04/06/10 12:46 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	5.91	0	0		WT%	1	04/05/10 03:00 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: Chevron Landfarm
Project No: 6-0137
Lab Order: 1004002

Client Sample ID: Cell 18 (4-5')
Lab ID: 1004002-05
Collection Date: 03/31/10 09:40 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	ND	3.29	11.0		mg/Kg-dry	1	04/05/10 09:01 AM
Surr: Isopropylbenzene	68.6	0	47 - 142		%REC	1	04/05/10 09:01 AM
Surr: Octacosane	73.2	0	25 - 162		%REC	1	04/05/10 09:01 AM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.112	0.225		mg/Kg-dry	1	04/01/10 08:53 PM
Surr: Tetrachlorethene	98.0	0	70 - 134		%REC	1	04/01/10 08:53 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00319	0.00532		mg/Kg-dry	1	04/02/10 01:05 PM
Ethylbenzene	ND	0.00532	0.0159		mg/Kg-dry	1	04/02/10 01:05 PM
Toluene	ND	0.00532	0.0159		mg/Kg-dry	1	04/02/10 01:05 PM
Xylenes, Total	ND	0.00532	0.0159		mg/Kg-dry	1	04/02/10 01:05 PM
Surr: Tetrachloroethene	90.8	0	79 - 135		%REC	1	04/02/10 01:05 PM
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0171	0.0428		mg/Kg-dry	1	04/07/10 02:33 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	2.66	0.541	1.08		mg/Kg-dry	5	04/06/10 12:26 PM
Barium	222	0.541	2.17		mg/Kg-dry	5	04/06/10 12:26 PM
Cadmium	ND	0.108	0.325		mg/Kg-dry	5	04/06/10 12:26 PM
Chromium	4.32	0.541	2.17		mg/Kg-dry	5	04/06/10 12:26 PM
Copper	3.11	0.541	2.17		mg/Kg-dry	5	04/06/10 12:26 PM
Iron	3140	67.7	67.7		mg/Kg-dry	25	04/06/10 04:01 PM
Lead	2.00	0.108	0.325		mg/Kg-dry	5	04/06/10 12:26 PM
Manganese	35.7	0.541	2.17		mg/Kg-dry	5	04/06/10 12:26 PM
Selenium	0.448	0.162	0.541	J	mg/Kg-dry	5	04/06/10 12:26 PM
Silver	ND	0.108	0.217		mg/Kg-dry	5	04/06/10 12:26 PM
Zinc	9.39	1.08	2.71		mg/Kg-dry	5	04/06/10 12:26 PM
SPLP Metals		SW1312/6020					Analyst: KL
Arsenic	ND	0.00200	0.00600		mg/L	1	04/14/10 01:26 PM
Barium	0.0668	0.00300	0.0100		mg/L	1	04/14/10 01:26 PM
Copper	ND	0.00200	0.0100		mg/L	1	04/14/10 01:26 PM
Iron	0.208	0.0500	0.150		mg/L	1	04/14/10 01:26 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	ND	5.85	11.7	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	22.4	5.81	5.81		mg/Kg-dry	1	04/06/10 12:57 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	14.5	0	0		WT%	1	04/05/10 03:00 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
MDL Method Detection Limit
N Parameter not NELAC certified
ND Not Detected at the Method Detection Limit
RL Reporting Limit
S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Project No: 6-0137
 Lab Order: 1004002

Client Sample ID: Cell 19 (4-5')
 Lab ID: 1004002-06
 Collection Date: 03/31/10 09:56 AM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	ND	3.24	10.8		mg/Kg-dry	1	04/05/10 09:10 AM
Surr: Isopropylbenzene	63.1	0	47 - 142		%REC	1	04/05/10 09:10 AM
Surr: Octacosane	67.8	0	25 - 162		%REC	1	04/05/10 09:10 AM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.103	0.206		mg/Kg-dry	1	04/01/10 09:15 PM
Surr: Tetrachlorethene	97.7	0	70 - 134		%REC	1	04/01/10 09:15 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00327	0.00546		mg/Kg-dry	1	04/02/10 01:27 PM
Ethylbenzene	ND	0.00546	0.0164		mg/Kg-dry	1	04/02/10 01:27 PM
Toluene	ND	0.00546	0.0164		mg/Kg-dry	1	04/02/10 01:27 PM
Xylenes, Total	ND	0.00546	0.0164		mg/Kg-dry	1	04/02/10 01:27 PM
Surr: Tetrachloroethene	89.3	0	79 - 135		%REC	1	04/02/10 01:27 PM
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0178	0.0444		mg/Kg-dry	1	04/07/10 02:35 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	2.17	0.525	1.05		mg/Kg-dry	5	04/06/10 12:31 PM
Barium	126	0.525	2.10		mg/Kg-dry	5	04/06/10 12:31 PM
Cadmium	0.129	0.105	0.315	J	mg/Kg-dry	5	04/06/10 12:31 PM
Chromium	3.89	0.525	2.10		mg/Kg-dry	5	04/06/10 12:31 PM
Copper	2.07	0.525	2.10	J	mg/Kg-dry	5	04/06/10 12:31 PM
Iron	2850	65.6	65.6		mg/Kg-dry	25	04/06/10 04:06 PM
Lead	1.97	0.105	0.315		mg/Kg-dry	5	04/06/10 12:31 PM
Manganese	27.0	0.525	2.10		mg/Kg-dry	5	04/06/10 12:31 PM
Selenium	0.482	0.157	0.525	J	mg/Kg-dry	5	04/06/10 12:31 PM
Silver	ND	0.105	0.210		mg/Kg-dry	5	04/06/10 12:31 PM
Zinc	7.44	1.05	2.62		mg/Kg-dry	5	04/06/10 12:31 PM
SPLP Metals		SW1312/6020					Analyst: KL
Arsenic	0.00252	0.00200	0.00600	J	mg/L	1	04/14/10 01:32 PM
Barium	0.0201	0.00300	0.0100		mg/L	1	04/14/10 01:32 PM
Copper	0.00279	0.00200	0.0100	J	mg/L	1	04/14/10 01:32 PM
Iron	0.546	0.0500	0.150		mg/L	1	04/14/10 01:32 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	ND	5.55	11.1	N	mg/Kg-dry	1	04/05/10 01:10 PM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	ND	5.56	5.56		mg/Kg-dry	1	04/06/10 01:08 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	10.1	0	0		WT%	1	04/05/10 03:00 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Project: Chevron Landfarm
 Project No: 6-0137
 Lab Order: 1004002

Client Sample ID: Cell 20 (4-5')
 Lab ID: 1004002-07
 Collection Date: 03/31/10 10:09 AM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Soil		M8015D					Analyst: AV
TPH-DRO C10-C28	ND	3.11	10.4		mg/Kg-dry	1	04/05/10 09:19 AM
Surr: Isopropylbenzene	69.7	0	47 - 142		%REC	1	04/05/10 09:19 AM
Surr: Octacosane	72.8	0	25 - 162		%REC	1	04/05/10 09:19 AM
Method 8015 Gasoline (GRO)		M8015V					Analyst: DEW
Gasoline Range Organics	ND	0.0994	0.199		mg/Kg-dry	1	04/01/10 09:37 PM
Surr: Tetrachlorethene	93.3	0	70 - 134		%REC	1	04/01/10 09:37 PM
Volatile Organics by GC		SW8021B					Analyst: DEW
Benzene	ND	0.00310	0.00516		mg/Kg-dry	1	04/02/10 01:49 PM
Ethylbenzene	ND	0.00516	0.0155		mg/Kg-dry	1	04/02/10 01:49 PM
Toluene	ND	0.00516	0.0155		mg/Kg-dry	1	04/02/10 01:49 PM
Xylenes, Total	ND	0.00516	0.0155		mg/Kg-dry	1	04/02/10 01:49 PM
Surr: Tetrachloroethene	88.3	0	79 - 135		%REC	1	04/02/10 01:49 PM
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0166	0.0416		mg/Kg-dry	1	04/07/10 02:37 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	3.63	0.521	1.04		mg/Kg-dry	5	04/06/10 12:37 PM
Barium	159	0.521	2.08		mg/Kg-dry	5	04/06/10 12:37 PM
Cadmium	0.134	0.104	0.313	J	mg/Kg-dry	5	04/06/10 12:37 PM
Chromium	2.77	0.521	2.08		mg/Kg-dry	5	04/06/10 12:37 PM
Copper	4.40	0.521	2.08		mg/Kg-dry	5	04/06/10 12:37 PM
Iron	1970	13.0	13.0		mg/Kg-dry	5	04/06/10 12:37 PM
Lead	1.83	0.104	0.313		mg/Kg-dry	5	04/06/10 12:37 PM
Manganese	23.1	0.521	2.08		mg/Kg-dry	5	04/06/10 12:37 PM
Selenium	0.434	0.156	0.521	J	mg/Kg-dry	5	04/06/10 12:37 PM
Silver	ND	0.104	0.208		mg/Kg-dry	5	04/06/10 12:37 PM
Zinc	6.86	1.04	2.60		mg/Kg-dry	5	04/06/10 12:37 PM
SPLP Metals		SW1312/6020					Analyst: KL
Arsenic	ND	0.00200	0.00600		mg/L	1	04/14/10 01:37 PM
Barium	0.154	0.00300	0.0100		mg/L	1	04/14/10 01:37 PM
Copper	ND	0.00200	0.0100		mg/L	1	04/14/10 01:37 PM
Iron	0.0666	0.0500	0.150	J	mg/L	1	04/14/10 01:37 PM
TRPH		E418.1					Analyst: JBC
Petroleum Hydrocarbons, TR	ND	5.46	10.9	N	mg/Kg-dry	1	04/13/10 11:00 AM
Anions by IC method - Soil		E300					Analyst: JBC
Chloride	13.7	5.44	5.44		mg/Kg-dry	1	04/06/10 01:19 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	8.57	0	0		WT%	1	04/05/10 03:00 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_100405A

Sample ID: LCS-40292	Batch ID: 40292	TestNo: M8015D	Units: mg/Kg
SampType: LCS	Run ID: GC15_100405A	Analysis Date: 04/05/10 07:49 AM	Prep Date: 04/01/10
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
TPH-DRO C10-C28	89.6 10.0 125.0	0 71.7 50 114	
Surr: Isopropylbenzene	4.69 7.500	62.5 47 142	
Surr: Octacosane	5.19 7.500	69.2 25 162	
Sample ID: MB-40292	Batch ID: 40292	TestNo: M8015D	Units: mg/Kg
SampType: MBLK	Run ID: GC15_100405A	Analysis Date: 04/05/10 08:16 AM	Prep Date: 04/01/10
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
TPH-DRO C10-C28	ND 10.0		
Surr: Isopropylbenzene	4.48 7.500	59.7 47 142	
Surr: Octacosane	4.52 7.500	60.2 25 162	
Sample ID: 1003225-04B-MS	Batch ID: 40292	TestNo: M8015D	Units: mg/Kg-dry
SampType: MS	Run ID: GC15_100405A	Analysis Date: 04/05/10 01:02 PM	Prep Date: 04/01/10
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
TPH-DRO C10-C28	115 10.4 129.5	20.71 72.9 50 114	
Surr: Isopropylbenzene	5.39 7.768	69.4 47 142	
Surr: Octacosane	6.68 7.768	85.9 25 162	
Sample ID: 1003225-04B-MSD	Batch ID: 40292	TestNo: M8015D	Units: mg/Kg-dry
SampType: MSD	Run ID: GC15_100405A	Analysis Date: 04/05/10 01:11 PM	Prep Date: 04/01/10
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
TPH-DRO C10-C28	121 10.4 129.7	20.71 77.1 50 114	4.74 30
Surr: Isopropylbenzene	5.26 7.784	67.5 47 142	0 0
Surr: Octacosane	6.72 7.784	86.4 25 162	0 0

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_100405A

Sample ID: ICV-100405	Batch ID: R48717	TestNo: M8015D	Units: mg/Kg
SampType: ICV	Run ID: GC15_100405A	Analysis Date: 04/05/10 07:37 AM	Prep Date:
Analyte	Result	RL	SPK value
TPH-DRO C10-C28	509	10.0	500.0
Surr: Isopropylbenzene	25.1		25.00
Surr: Octacosane	22.4		25.00

Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
0	102	85	115			
	100	47	142			
	89.5	25	162			

Sample ID: CCV1-100405	Batch ID: R48717	TestNo: M8015D	Units: mg/Kg
SampType: CCV	Run ID: GC15_100405A	Analysis Date: 04/05/10 09:55 AM	Prep Date:
Analyte	Result	RL	SPK value
TPH-DRO C10-C28	242	10.0	250.0
Surr: Isopropylbenzene	11.8		12.50
Surr: Octacosane	11.2		12.50

Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
0	96.7	85	115			
	94.3	47	142			
	89.7	25	162			

Sample ID: CCV2-100405	Batch ID: R48717	TestNo: M8015D	Units: mg/Kg
SampType: CCV	Run ID: GC15_100405A	Analysis Date: 04/05/10 12:07 PM	Prep Date:
Analyte	Result	RL	SPK value
TPH-DRO C10-C28	228	10.0	250.0
Surr: Isopropylbenzene	12.7		12.50
Surr: Octacosane	11.2		12.50

Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
0	91.4	85	115			
	102	47	142			
	89.5	25	162			

Sample ID: CCV3-100405	Batch ID: R48717	TestNo: M8015D	Units: mg/Kg
SampType: CCV	Run ID: GC15_100405A	Analysis Date: 04/05/10 03:52 PM	Prep Date:
Analyte	Result	RL	SPK value
TPH-DRO C10-C28	248	10.0	250.0
Surr: Isopropylbenzene	13.3		12.50
Surr: Octacosane	11.6		12.50

Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
0	99.3	85	115			
	107	47	142			
	92.4	25	162			

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_100401A

Sample ID: LCS-40314	Batch ID: 40314	TestNo: M8015V	Units: mg/Kg
SampType: LCS	Run ID: GC4_100401A	Analysis Date: 04/01/10 06:17 PM	Prep Date: 04/01/10
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Gasoline Range Organics	4.78 0.200 5.000	0 95.6	68 126
Surr: Tetrachlorethene	0.342 0.4000	85.5	70 134
Sample ID: MB-40314	Batch ID: 40314	TestNo: M8015V	Units: mg/Kg
SampType: MBLK	Run ID: GC4_100401A	Analysis Date: 04/01/10 07:01 PM	Prep Date: 04/01/10
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Gasoline Range Organics	ND 0.200		
Surr: Tetrachlorethene	0.383 0.4000	95.6	70 134
Sample ID: 1004002-07AMS	Batch ID: 40314	TestNo: M8015V	Units: mg/Kg-dry
SampType: MS	Run ID: GC4_100401A	Analysis Date: 04/01/10 09:59 PM	Prep Date: 04/01/10
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Gasoline Range Organics	4.75 0.203 5.064	0 93.8	68 126
Surr: Tetrachlorethene	0.362 0.4051	89.4	70 134
Sample ID: 1004002-07AMSD	Batch ID: 40314	TestNo: M8015V	Units: mg/Kg-dry
SampType: MSD	Run ID: GC4_100401A	Analysis Date: 04/01/10 10:21 PM	Prep Date: 04/01/10
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Gasoline Range Organics	4.46 0.210 5.259	0 84.8	68 126 6.30 30
Surr: Tetrachlorethene	0.390 0.4207	92.7	70 134 0 0

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_100401A

Sample ID: ICV-100401	Batch ID: R48679	TestNo: M8015V	Units: mg/Kg
SampType: ICV	Run ID: GC4_100401A	Analysis Date: 04/01/10 05:54 PM	Prep Date:
Analyte	Result	RL	SPK value
Gasoline Range Organics	9.47	0.200	10.00
Surr: Tetrachlorethene	0.320		0.4000
		Ref Val	%REC
		0	94.7
		LowLimit	HighLimit
		80	120
		%RPD	RPD Limit
		70	134

Sample ID: CCV1-100401	Batch ID: R48679	TestNo: M8015V	Units: mg/Kg
SampType: CCV	Run ID: GC4_100401A	Analysis Date: 04/01/10 10:44 PM	Prep Date:
Analyte	Result	RL	SPK value
Gasoline Range Organics	4.79	0.200	5.000
Surr: Tetrachlorethene	0.335		0.4000
		Ref Val	%REC
		0	95.8
		LowLimit	HighLimit
		80	120
		%RPD	RPD Limit
		70	134

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_100402A

Sample ID:	LCS-40328	Batch ID:	40328	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	LCS	Run ID:	GC4_100402A	Analysis Date:	04/02/10 10:53 AM	Prep Date:	04/02/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0.0917	0.00500	0.1000	0	91.7	65	113			
Toluene	0.0947	0.0150	0.1000	0	94.7	73	115			
Ethylbenzene	0.0959	0.0150	0.1000	0	95.9	74	118			
Xylenes, Total	0.289	0.0150	0.3000	0	96.4	73	119			
Surr: Tetrachloroethene	0.186		0.2000		93.1	79	135			

Sample ID:	MB-40328	Batch ID:	40328	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	MBLK	Run ID:	GC4_100402A	Analysis Date:	04/02/10 11:15 AM	Prep Date:	04/02/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	ND	0.00500								
Toluene	ND	0.0150								
Ethylbenzene	ND	0.0150								
Xylenes, Total	ND	0.0150								
Surr: Tetrachloroethene	0.166		0.2000		83.0	79	135			

Sample ID:	1004002-07AMS	Batch ID:	40328	TestNo:	SW8021B	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	GC4_100402A	Analysis Date:	04/02/10 02:11 PM	Prep Date:	04/02/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0.0820	0.00488	0.09766	0	83.9	65	113			
Toluene	0.0832	0.0146	0.09766	0	85.2	73	115			
Ethylbenzene	0.0839	0.0146	0.09766	0	85.9	74	118			
Xylenes, Total	0.250	0.0146	0.2930	0	85.4	73	119			
Surr: Tetrachloroethene	0.170		0.1953		87.2	79	135			

Sample ID:	1004002-07AMSD	Batch ID:	40328	TestNo:	SW8021B	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	GC4_100402A	Analysis Date:	04/02/10 02:34 PM	Prep Date:	04/02/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0.0856	0.00506	0.1013	0	84.5	65	113	4.35	30	
Toluene	0.0876	0.0152	0.1013	0	86.5	73	115	5.15	30	
Ethylbenzene	0.0888	0.0152	0.1013	0	87.6	74	118	5.60	30	
Xylenes, Total	0.264	0.0152	0.3038	0	86.9	73	119	5.48	30	
Surr: Tetrachloroethene	0.172		0.2026		84.8	79	135	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_100402A

Sample ID:	ICV-100402	Batch ID:	R48680	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	ICV	Run ID:	GC4_100402A	Analysis Date:	04/02/10 10:30 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0.190	0.00500	0.2000	0	95.1	80	120			
Toluene	0.198	0.0150	0.2000	0	99.0	80	120			
Ethylbenzene	0.201	0.0150	0.2000	0	101	80	120			
Xylenes, Total	0.601	0.0150	0.6000	0	100	80	120			
Surr: Tetrachloroethene	0.229		0.2000		114	79	135			

Sample ID:	CCV1-100402	Batch ID:	R48680	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	CCV	Run ID:	GC4_100402A	Analysis Date:	04/02/10 02:56 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0.0929	0.00500	0.1000	0	92.9	80	120			
Toluene	0.0972	0.0150	0.1000	0	97.2	80	120			
Ethylbenzene	0.0989	0.0150	0.1000	0	98.9	80	120			
Xylenes, Total	0.296	0.0150	0.3000	0	98.7	80	120			
Surr: Tetrachloroethene	0.173		0.2000		86.3	79	135			

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_100407C

Sample ID:	MB-40357	Batch ID:	40357	TestNo:	SW7471A	Units:	mg/Kg				
SampType:	MBLK	Run ID:	CETAC_HG_100407C	Analysis Date:	04/07/10 01:58 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		ND	0.0400								
Sample ID:	LCS-40357	Batch ID:	40357	TestNo:	SW7471A	Units:	mg/Kg				
SampType:	LCS	Run ID:	CETAC_HG_100407C	Analysis Date:	04/07/10 02:02 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.221	0.0400	0.2000	0	110	85	115			
Sample ID:	LCSD-40357	Batch ID:	40357	TestNo:	SW7471A	Units:	mg/Kg				
SampType:	LCSD	Run ID:	CETAC_HG_100407C	Analysis Date:	04/07/10 02:04 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.218	0.0400	0.2000	0	109	85	115	1.37	25	
Sample ID:	1004002-01B SD	Batch ID:	40357	TestNo:	SW7471A	Units:	mg/Kg-dry				
SampType:	SD	Run ID:	CETAC_HG_100407C	Analysis Date:	04/07/10 02:14 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0	0.216	0	0				0	10	
Sample ID:	1004002-01B PDS	Batch ID:	40357	TestNo:	SW7471A	Units:	mg/Kg-dry				
SampType:	PDS	Run ID:	CETAC_HG_100407C	Analysis Date:	04/07/10 02:16 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.272	0.0432	0.2698	0	101	85	115			
Sample ID:	1004002-01B MS	Batch ID:	40357	TestNo:	SW7471A	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	CETAC_HG_100407C	Analysis Date:	04/07/10 02:18 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.242	0.0451	0.2253	0	108	80	120			
Sample ID:	1004002-01B MSD	Batch ID:	40357	TestNo:	SW7471A	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	CETAC_HG_100407C	Analysis Date:	04/07/10 02:24 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.233	0.0437	0.2187	0	107	80	120	3.92	25	

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_100407C

Sample ID:	ICV2-100407	Batch ID:	R48768		TestNo:	SW7471A		Units:	mg/Kg		
SampType:	ICV	Run ID:	CETAC_HG_100407C		Analysis Date:	04/07/10 01:54 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.00376	0.0400	0.004000	0	94.0	90	110			

Sample ID:	CCV1-100407	Batch ID:	R48768		TestNo:	SW7471A		Units:	mg/Kg		
SampType:	CCV	Run ID:	CETAC_HG_100407C		Analysis Date:	04/07/10 02:20 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.00201	0.0400	0.002000	0	101	90	110			

Sample ID:	CCV2-100407	Batch ID:	R48768		TestNo:	SW7471A		Units:	mg/Kg		
SampType:	CCV	Run ID:	CETAC_HG_100407C		Analysis Date:	04/07/10 02:45 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.00204	0.0400	0.002000	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100406A

Sample ID:	MB-40349	Batch ID:	40349	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS2_100406A	Analysis Date:	04/06/10 11:48 AM	Prep Date:	04/05/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	ND	1.00								
Barium	ND	2.00								
Cadmium	ND	0.300								
Chromium	ND	2.00								
Copper	ND	2.00								
Iron	ND	12.5								
Lead	ND	0.300								
Manganese	ND	2.00								
Selenium	ND	0.500								
Silver	ND	0.200								
Zinc	ND	2.50								

Sample ID:	LCS-40349	Batch ID:	40349		TestNo:	SW6020			Units:	mg/Kg	
SampType:	LCS	Run ID:	ICP-MS2_100406A		Analysis Date:	04/06/10 11:53 AM			Prep Date:	04/05/10	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		48.3	1.00	50.00	0	96.6	80	120			
Barium		50.6	2.00	50.00	0	101	80	120			
Cadmium		49.4	0.300	50.00	0	98.9	80	120			
Chromium		52.2	2.00	50.00	0	104	80	120			
Copper		49.6	2.00	50.00	0	99.3	80	120			
Iron		276	12.5	250.0	0	110	80	120			
Lead		49.5	0.300	50.00	0	99.0	80	120			
Manganese		51.3	2.00	50.00	0	103	80	120			
Selenium		47.1	0.500	50.00	0	94.2	80	120			
Silver		49.0	0.200	50.00	0	97.9	80	120			
Zinc		49.8	2.50	50.00	0	99.6	80	120			

Sample ID:	LCSD-40349	Batch ID:	40349			TestNo:	SW6020		Units:	mg/Kg	
SampType:	LCSD	Run ID:	ICP-MS2_100406A			Analysis Date:	04/06/10 11:59 AM		Prep Date:	04/05/10	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		48.0	1.00	50.00	0	96.0	80	120	0.519	20	
Barium		51.1	2.00	50.00	0	102	80	120	1.03	20	
Cadmium		49.1	0.300	50.00	0	98.2	80	120	0.710	20	
Chromium		53.4	2.00	50.00	0	107	80	120	2.08	20	
Copper		49.8	2.00	50.00	0	99.6	80	120	0.302	20	
Iron		282	12.5	250.0	0	113	80	120	2.42	20	
Lead		49.5	0.300	50.00	0	99.0	80	120	0.050	20	
Manganese		51.7	2.00	50.00	0	103	80	120	0.776	20	
Selenium		46.4	0.500	50.00	0	92.9	80	120	1.44	20	
Silver		49.1	0.200	50.00	0	98.2	80	120	0.255	20	
Zinc		49.1	2.50	50.00	0	98.1	80	120	1.52	20	

Sample ID:	1004002-01B SD	Batch ID:	40349	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	SD	Run ID:	ICP-MS2_100406A	Analysis Date:	04/06/10 12:48 PM	Prep Date:	04/05/10

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100406A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	3.08	5.47	0	3.640				16.7	10	R
Barium	316	10.9	0	362.1				13.7	10	R
Cadmium	0	1.64	0	0				0	10	
Chromium	3.32	10.9	0	4.037				19.6	10	R
Copper	0	10.9	0	3.137				0	10	
Lead	1.75	1.64	0	1.923				9.25	10	
Manganese	28.6	10.9	0	31.51				9.60	10	
Selenium	0.930	2.73	0	0.5317				54.5	10	R
Silver	0	1.09	0	0				0	10	

Sample ID: 1004002-01B PDS Batch ID: 40349 TestNo: SW6020 Units: mg/Kg-dry
 SampType: PDS Run ID: ICP-MS2_100406A Analysis Date: 04/06/10 12:53 PM Prep Date: 04/05/10

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	57.1	1.09	54.70	3.640	97.8	75	125			
Barium	423	2.19	54.70	362.1	111	75	125			
Cadmium	51.0	0.328	54.70	0	93.3	75	125			
Chromium	56.3	2.19	54.70	4.037	95.5	75	125			
Copper	52.2	2.19	54.70	3.137	89.6	75	125			
Lead	56.8	0.328	54.70	1.923	100	75	125			
Manganese	82.4	2.19	54.70	31.51	93.1	75	125			
Selenium	51.7	0.547	54.70	0.5317	93.5	75	125			
Silver	50.2	0.219	54.70	0	91.8	75	125			

Sample ID: 1004002-01B MS Batch ID: 40349 TestNo: SW6020 Units: mg/Kg-dry
 SampType: MS Run ID: ICP-MS2_100406A Analysis Date: 04/06/10 12:59 PM Prep Date: 04/05/10

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	54.0	1.08	54.19	3.640	92.9	80	120			
Barium	376	2.17	54.19	362.1	24.8	80	120			S
Cadmium	50.2	0.325	54.19	0	92.6	80	120			
Chromium	55.6	2.17	54.19	4.037	95.1	80	120			
Copper	50.0	2.17	54.19	3.137	86.5	80	120			
Lead	54.3	0.325	54.19	1.923	96.8	80	120			
Manganese	78.1	2.17	54.19	31.51	86.0	80	120			
Selenium	48.6	0.542	54.19	0.5317	88.7	80	120			
Silver	49.4	0.217	54.19	0	91.1	80	120			

Sample ID: 1004002-01B MSD Batch ID: 40349 TestNo: SW6020 Units: mg/Kg-dry
 SampType: MSD Run ID: ICP-MS2_100406A Analysis Date: 04/06/10 01:04 PM Prep Date: 04/05/10

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	55.9	1.10	55.22	3.640	94.6	80	120	3.38	20	
Barium	353	2.21	55.22	362.1	-17.3	80	120	6.30	20	S
Cadmium	51.5	0.331	55.22	0	93.4	80	120	2.64	20	
Chromium	56.8	2.21	55.22	4.037	95.5	80	120	2.18	20	
Copper	52.0	2.21	55.22	3.137	88.4	80	120	3.82	20	
Lead	55.8	0.331	55.22	1.923	97.6	80	120	2.63	20	
Manganese	79.5	2.21	55.22	31.51	86.9	80	120	1.75	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Ch vron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100406A

Selenium	50.4	0.552	55.22	0.5317	90.4	80	120	3.76	20
Silver	50.4	0.221	55.22	0	91.4	80	120	2.16	20

Sample ID:	1004002-01B SD	Batch ID:	40349	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS2_100406A	Analysis Date:	04/06/10 04:17 PM	Prep Date:	04/05/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	3150	342	0	2653				17.0	10	R

Sample ID:	1004002-01B PDS	Batch ID:	40349	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	ICP-MS2_100406A	Analysis Date:	04/06/10 04:23 PM	Prep Date:	04/05/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	8990	68.4	6837	2653	92.6	75	125			

Sample ID:	1004002-01B MS	Batch ID:	40349	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS2_100406A	Analysis Date:	04/06/10 04:28 PM	Prep Date:	04/05/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	2940	67.7	270.9	2653	107	80	120			

Sample ID:	1004002-01B MSD	Batch ID:	40349	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	ICP-MS2_100406A	Analysis Date:	04/06/10 04:34 PM	Prep Date:	04/05/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	2860	69.0	276.1	2653	76.7	80	120	0	20	S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100406A

Sample ID:	ICV1-100406	Batch ID:	R48743		TestNo:	SW1312/6020		Units:	mg/L		
SampType:	ICV	Run ID:	ICP-MS2_100406A		Analysis Date:	04/06/10 11:31 AM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		0.0968	0.00600	0.100	0	96.8	90	110			
Barium		0.0964	0.0100	0.100	0	96.4	90	110			
Cadmium		0.0935	0.00100	0.100	0	93.5	90	110			
Chromium		0.101	0.00600	0.100	0	101	90	110			
Copper		0.0990	0.0100	0.100	0	99.0	90	110			
Iron		2.48	0.150	2.50	0	99.4	90	110			
Lead		0.0937	0.00100	0.100	0	93.7	90	110			
Manganese		0.100	0.0100	0.100	0	100	90	110			
Selenium		0.0943	0.00600	0.100	0	94.3	90	110			
Silver		0.0937	0.00200	0.100	0	93.7	90	110			
Zinc		0.100	0.00500	0.100	0	100	90	110			

Sample ID:	CCV1-100406	Batch ID:	R48743		TestNo:	SW1312/6020		Units:	mg/L		
SampType:	CCV	Run ID:	ICP-MS2_100406A		Analysis Date:	04/06/10 01:09 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		0.186	0.00600	0.200	0	93.0	90	110			
Barium		0.199	0.0100	0.200	0	99.4	90	110			
Cadmium		0.190	0.00100	0.200	0	94.8	90	110			
Chromium		0.199	0.00600	0.200	0	99.3	90	110			
Copper		0.182	0.0100	0.200	0	90.8	90	110			
Iron		4.57	0.150	5.00	0	91.4	90	110			
Lead		0.189	0.00100	0.200	0	94.7	90	110			
Manganese		0.199	0.0100	0.200	0	99.7	90	110			
Selenium		0.186	0.00600	0.200	0	93.0	90	110			
Silver		0.186	0.00200	0.200	0	92.8	90	110			
Zinc		0.186	0.00500	0.200	0	93.0	90	110			

Sample ID:	CCV2-100406	Batch ID:	R48743	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_100406A	Analysis Date:	04/06/10 03:05 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	4.52	0.150	5.00	0	90.4	90	110			

Sample ID:	CCV3-100406	Batch ID:	R48743	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_100406A	Analysis Date:	04/06/10 04:50 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	4.50	0.150	5.00	0	90.1	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100414B

Sample ID:	MB-40538	Batch ID:	40538	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 12:31 PM	Prep Date:	04/14/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	ND	0.00600								
Barium	ND	0.0100								
Copper	ND	0.0100								
Iron	ND	0.150								

Sample ID:	MB-40526 SPLP	Batch ID:	40538	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 12:37 PM	Prep Date:	04/14/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	ND	0.00600								
Barium	0.00878	0.0100								
Copper	ND	0.0100								
Iron	ND	0.150								

Sample ID:	LCS-40538	Batch ID:	40538	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 12:42 PM	Prep Date:	04/14/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.206	0.00600	0.200	0	103	80	120			
Barium	0.204	0.0100	0.200	0	102	80	120			
Copper	0.211	0.0100	0.200	0	106	80	120			
Iron	5.31	0.150	5.00	0	106	80	120			

Sample ID:	LCSD-40538	Batch ID:	40538	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	LCSD	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 12:48 PM	Prep Date:	04/14/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.206	0.00600	0.200	0	103	80	120	0.243	15	
Barium	0.203	0.0100	0.200	0	102	80	120	0.344	15	
Copper	0.214	0.0100	0.200	0	107	80	120	1.13	15	
Iron	5.22	0.150	5.00	0	104	80	120	1.65	15	

Sample ID:	1004002-01B SD	Batch ID:	40538	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 01:48 PM	Prep Date:	04/14/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0	0.0300	0	0				0	10	
Barium	0.121	0.0500	0	0.121				0.165	10	
Copper	0	0.0500	0	0				0	10	
Iron	0.413	0.750	0	0.401				2.95	10	

Sample ID:	1004002-01B PDS	Batch ID:	40538	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 01:53 PM	Prep Date:	04/14/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.199	0.00600	0.200	0	99.7	75	125			
Barium	0.316	0.0100	0.200	0.121	97.2	75	125			
Copper	0.202	0.0100	0.200	0	101	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100414B

Sample ID:	1004002-01B MS	Batch ID:	40538	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 01:59 PM	Prep Date:	04/14/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.207	0.00600	0.200	0	103	80	120			
Barium	0.333	0.0100	0.200	0.121	106	80	120			
Copper	0.212	0.0100	0.200	0	106	80	120			
Iron	5.52	0.150	5.00	0.401	102	80	120			

Sample ID:	1004002-01B MSD	Batch ID:	40538	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 02:04 PM	Prep Date:	04/14/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.199	0.00600	0.200	0	99.4	80	120	3.94	15	
Barium	0.319	0.0100	0.200	0.121	98.9	80	120	4.32	15	
Copper	0.206	0.0100	0.200	0	103	80	120	3.06	15	
Iron	5.40	0.150	5.00	0.401	100	80	120	2.16	15	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100414B

Sample ID:	ICV1-100414	Batch ID:	R48902	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 12:08 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.103	0.00600	0.100	0	103	90	110			
Barium	0.0976	0.0100	0.100	0	97.6	90	110			
Copper	0.105	0.0100	0.100	0	105	90	110			
Iron	2.67	0.150	2.50	0	107	90	110			

Sample ID:	CCV1-100414	Batch ID:	R48902	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_100414B	Analysis Date:	04/14/10 02:10 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.199	0.00600	0.200	0	99.6	90	110			
Barium	0.194	0.0100	0.200	0	97.2	90	110			
Copper	0.209	0.0100	0.200	0	105	90	110			
Iron	5.10	0.150	5.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_100406A

Sample ID:	LCS-40334	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg				
SampType:	LCS	Run ID:	IC2_100406A	Analysis Date:	04/06/10 09:13 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		47.2	5.00	50.00	0	94.5	80	120			
Sample ID:	LCSD-40334	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg				
SampType:	LCSD	Run ID:	IC2_100406A	Analysis Date:	04/06/10 09:24 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		47.5	5.00	50.00	0	94.9	80	120	0.448	20	
Sample ID:	MB-40334	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg				
SampType:	MBLK	Run ID:	IC2_100406A	Analysis Date:	04/06/10 09:36 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		ND	5.00								
Sample ID:	1003225-02B MS	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	IC2_100406A	Analysis Date:	04/06/10 10:13 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		49.2	5.17	51.72	0	95.1	80	120			
Sample ID:	1003225-02B MSD	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	IC2_100406A	Analysis Date:	04/06/10 10:24 AM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		49.8	5.17	51.72	0	96.2	80	120	1.19	20	
Sample ID:	1004002-01B MS	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	IC2_100406A	Analysis Date:	04/06/10 12:01 PM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		58.1	5.74	57.40	4.816	92.8	80	120			
Sample ID:	1004002-01B MSD	Batch ID:	40334	TestNo:	E300	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	IC2_100406A	Analysis Date:	04/06/10 12:12 PM	Prep Date:	04/02/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		57.9	5.74	57.40	4.816	92.5	80	120	0.299	20	

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_100406A

Sample ID:	ICV-100406	Batch ID:	R48718	TestNo:	E300	Units:	mg/Kg				
SampType:	ICV	Run ID:	IC2_100406A	Analysis Date:	04/06/10 08:56 AM	Prep Date:	04/06/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		24.2	5.00	25.00	0	96.8	90	110			
Sample ID:	CCV1-100406	Batch ID:	R48718	TestNo:	E300	Units:	mg/Kg				
SampType:	CCV	Run ID:	IC2_100406A	Analysis Date:	04/06/10 11:09 AM	Prep Date:	04/06/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.48	5.00	10.00	0	94.8	90	110			
Sample ID:	CCV2-100406	Batch ID:	R48718	TestNo:	E300	Units:	mg/Kg				
SampType:	CCV	Run ID:	IC2_100406A	Analysis Date:	04/06/10 01:30 PM	Prep Date:	04/06/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride		9.51	5.00	10.00	0	95.1	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_100405A

Sample ID:	MBLK-40361	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg				
SampType:	MBLK	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		ND	10.0								N
Sample ID:	LCS-40361	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg				
SampType:	LCS	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		86.2	10.0	100.0	0	86.2	80	120			N
Sample ID:	LCSD-40361	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg				
SampType:	LCSD	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		89.4	10.0	100.0	0	89.4	80	120	3.56	20	N
Sample ID:	1003225-07B MS	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		194	10.4	104.1	107.2	83.9	80	120			N
Sample ID:	1003225-07B MSD	Batch ID:	40361	TestNo:	E418.1	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	IR207_100405A	Analysis Date:	04/05/10 01:10 PM	Prep Date:	04/05/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		200	10.3	103.2	107.2	89.9	80	120	2.82	20	N

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_100405A

Sample ID: ICV-100405	Batch ID: 418_S-04/05/2010	TestNo: E418.1	Units: mg/Kg
SampType: ICV	Run ID: IR207_100405A	Analysis Date: 04/05/10 01:10 PM	Prep Date:
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Petroleum Hydrocarbons, TR	231 10.0 250.0	0 92.5 90 110	N

Sample ID: CCV1-100405	Batch ID: 418_S-04/05/2010	TestNo: E418.1	Units: mg/Kg
SampType: CCV	Run ID: IR207_100405A	Analysis Date: 04/05/10 01:10 PM	Prep Date:
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Petroleum Hydrocarbons, TR	230 10.0 250.0	0 92.0 85 115	N

Sample ID: CCV2-100405	Batch ID: 418_S-04/05/2010	TestNo: E418.1	Units: mg/Kg
SampType: CCV	Run ID: IR207_100405A	Analysis Date: 04/05/10 01:10 PM	Prep Date:
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Petroleum Hydrocarbons, TR	238 10.0 250.0	0 95.0 85 115	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_100413A

Sample ID:	LCS-40517	Batch ID:	40517	TestNo:	E418.1	Units:	mg/Kg			
SampType:	LCS	Run ID:	IR207_100413A	Analysis Date:	04/13/10 11:00 AM	Prep Date:	04/13/10			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Petroleum Hydrocarbons, TR		86.9	10.0	100.0	0	86.9	80	120		N
Sample ID:	MB-40517	Batch ID:	40517	TestNo:	E418.1	Units:	mg/Kg			
SampType:	MBLK	Run ID:	IR207_100413A	Analysis Date:	04/13/10 11:00 AM	Prep Date:	04/13/10			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Petroleum Hydrocarbons, TR		ND	10.0							N
Sample ID:	1004002-07A MS	Batch ID:	40517	TestNo:	E418.1	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	IR207_100413A	Analysis Date:	04/13/10 11:00 AM	Prep Date:	04/13/10			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Petroleum Hydrocarbons, TR		109	10.9	109.2	0	100	80	120		N
Sample ID:	1004002-07A MSD	Batch ID:	40517	TestNo:	E418.1	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	IR207_100413A	Analysis Date:	04/13/10 11:00 AM	Prep Date:	04/13/10			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Petroleum Hydrocarbons, TR		113	10.9	108.7	0	104	80	120	3.28	20 N

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004002
 Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_100413A

Sample ID: ICV-100413	Batch ID: 418_S-04/13/2010	TestNo: E418.1	Units: mg/Kg
SampType: ICV	Run ID: IR207_100413A	Analysis Date: 04/13/10 11:00 AM	Prep Date:
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Petroleum Hydrocarbons, TR	234 10.0 250.0	0 93.8 90 110	N

Sample ID: CCV-100413	Batch ID: 418_S-04/13/2010	TestNo: E418.1	Units: mg/Kg
SampType: CCV	Run ID: IR207_100413A	Analysis Date: 04/13/10 11:00 AM	Prep Date:
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Petroleum Hydrocarbons, TR	231 10.0 250.0	0 92.2 85 115	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1004002
Project: Chevron Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_100405B

Sample ID:	1004016-01B-DUP	Batch ID:	40336	TestNo:	D2216	Units:	WT%			
SampType:	DUP	Run ID:	PMOIST_100405B	Analysis Date:	04/05/10 03:00 PM	Prep Date:	04/02/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	2.79	0	0	2.707				3.05	30	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified



May 03, 2010

Michelle Green
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701

Order No: 1004151

TEL: (432) 687-0901
FAX: (432) 687-0456

RE: Landfarm

Dear Michelle Green:

DHL Analytical received 7 sample(s) on 4/19/2010 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-10-2



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Sample Receipt Checklist

Client Name **Larson & Associates**

Date Received: **3/30/2010**

Work Order Number **1004151**

Received by **JB**

Checklist completed by: *AKuhaneck* *4/19/10*
Signature Date

Reviewed by *SS* *4-19-10*
Initials Date

Carrier name: LoneStar

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☒ | No ☐ | Not Present ☐ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☒ |
| Chain of custody present? | Yes ☒ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☒ | No ☐ | |
| Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| Sample containers intact? | Yes ☒ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| All samples received within holding time? | Yes ☒ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☒ | No ☐ | 1.0 °C |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA vials submitted ☒ |
| Water - pH acceptable upon receipt? | Yes ☐ | No ☐ | Not Applicable ☒ |

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: Landfarm
Lab Order: 1004151

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method SW7471A - Mercury Analysis
Method SW1312/6020 - SPLP Metals Analysis

LOG IN

The samples were added on and log-in performed on 4/19/10. A total of 7 samples were received. On 4/27/10 SPLP Metals analysis was added to most samples as per the client. These were performed as requested. The time of collection was Mountain Standard Time. The samples arrived in good condition and were properly packaged.

METALS ANALYSIS

For SPLP Metals analysis Chromium was detected below the reporting limit in the SPLP Method Blank (MB-40798). All associated samples were below detection limits for this analyte. No further corrective actions were taken.

For Metals analysis performed on 4/21/10 (batch 40623) the matrix spike and matrix spike duplicate recoveries were out of control limits for Barium or Iron. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Metals analysis performed on 4/21/10 (batch 40623) the RPD for the serial dilution was slightly above control limits for Arsenic and Iron. These are flagged accordingly. The PDS was within control limits for these analytes. No further corrective actions were taken.

CLIENT: Larson & Associates
Project: Landfarm
Lab Order: 1004151

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1004151-01	Cell 17 (0-1')		03/26/10 03:00 PM	04/19/10
1004151-02	Cell 8 (0-1')		03/26/10 02:45 PM	04/19/10
1004151-03	Cell 19 (0-1')		03/26/10 02:20 PM	04/19/10
1004151-04	Cell 20 (0-1')		03/26/10 02:02 PM	04/19/10
1004151-05	Cell 21 (0-1')		03/26/10 03:15 PM	04/19/10
1004151-06	Cell 25 (0-1')		03/26/10 03:45 PM	04/19/10
1004151-07	Cell 26 (0-1')		03/26/10 03:25 PM	04/19/10

CLIENT: Larson & Associates
 Project: Landfarm
 Lab Order: 1004151

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1004151-01A	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/19/10 11:01 AM	40624
	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/29/10 08:28 AM	40807
1004151-02A	Cell 8 (0-1')	03/26/10 02:45 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/19/10 11:01 AM	40624
	Cell 8 (0-1')	03/26/10 02:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 8 (0-1')	03/26/10 02:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 8 (0-1')	03/26/10 02:45 PM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/29/10 08:28 AM	40807
1004151-03A	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/19/10 11:01 AM	40624
	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/29/10 08:28 AM	40807
1004151-04A	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/19/10 11:01 AM	40624
	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 20 (0-1')	03/26/10 02:02 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
1004151-05A	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/19/10 11:01 AM	40624
	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/29/10 08:28 AM	40807
1004151-06A	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/19/10 11:01 AM	40624
	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/29/10 08:28 AM	40807
1004151-07A	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/19/10 11:01 AM	40624
	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/19/10 10:53 AM	40623
	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	SW3005A	Aq Prep Metals: Dissolved	04/29/10 08:28 AM	40807

CLIENT: Larson & Associates
Project: Landfarm
Lab Order: 1004151

TCLP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1004151-01A	Cell 17 (0-1')	03/26/10 03:00 PM	Soil	SW1312	SPLP Sample Prep (Metals)	04/28/10 04:10 PM	40798
1004151-02A	Cell 8 (0-1')	03/26/10 02:45 PM	Soil	SW1312	SPLP Sample Prep (Metals)	04/28/10 04:10 PM	40798
1004151-03A	Cell 19 (0-1')	03/26/10 02:20 PM	Soil	SW1312	SPLP Sample Prep (Metals)	04/28/10 04:10 PM	40798
1004151-05A	Cell 21 (0-1')	03/26/10 03:15 PM	Soil	SW1312	SPLP Sample Prep (Metals)	04/28/10 04:10 PM	40798
1004151-06A	Cell 25 (0-1')	03/26/10 03:45 PM	Soil	SW1312	SPLP Sample Prep (Metals)	04/28/10 04:10 PM	40798
1004151-07A	Cell 26 (0-1')	03/26/10 03:25 PM	Soil	SW1312	SPLP Sample Prep (Metals)	04/28/10 04:10 PM	40798

CLIENT: Larson & Associates
 Project: Landfarm
 Lab Order: 1004151

ANALYTICAL DATA REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1004151-01A	Cell 17 (0-1')	Soil	SW1312/6020	SPLP Metals	40807	1	04/29/10 05:03 PM	ICP-MS2_100429B
	Cell 17 (0-1')	Soil	SW7471A	Total Mercury: Soil/Solid	40624	1	04/20/10 12:07 PM	CETAC_HG_100420A
	Cell 17 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	5	04/21/10 01:15 PM	ICP-MS2_100421A
	Cell 17 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	50	04/21/10 02:38 PM	ICP-MS2_100421A
1004151-02A	Cell 8 (0-1')	Soil	SW1312/6020	SPLP Metals	40807	1	04/29/10 04:35 PM	ICP-MS2_100429B
	Cell 8 (0-1')	Soil	SW7471A	Total Mercury: Soil/Solid	40624	1	04/20/10 12:09 PM	CETAC_HG_100420A
	Cell 8 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	5	04/21/10 01:20 PM	ICP-MS2_100421A
	Cell 8 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	50	04/21/10 02:43 PM	ICP-MS2_100421A
1004151-03A	Cell 19 (0-1')	Soil	SW1312/6020	SPLP Metals	40807	1	04/29/10 04:41 PM	ICP-MS2_100429B
	Cell 19 (0-1')	Soil	SW7471A	Total Mercury: Soil/Solid	40624	1	04/20/10 12:11 PM	CETAC_HG_100420A
	Cell 19 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	5	04/21/10 01:25 PM	ICP-MS2_100421A
	Cell 19 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	50	04/21/10 02:49 PM	ICP-MS2_100421A
1004151-04A	Cell 20 (0-1')	Soil	SW7471A	Total Mercury: Soil/Solid	40624	1	04/20/10 12:17 PM	CETAC_HG_100420A
	Cell 20 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	5	04/21/10 01:31 PM	ICP-MS2_100421A
	Cell 20 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	50	04/21/10 02:54 PM	ICP-MS2_100421A
1004151-05A	Cell 21 (0-1')	Soil	SW1312/6020	SPLP Metals	40807	1	04/29/10 04:46 PM	ICP-MS2_100429B
	Cell 21 (0-1')	Soil	SW7471A	Total Mercury: Soil/Solid	40624	1	04/20/10 12:19 PM	CETAC_HG_100420A
	Cell 21 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	5	04/21/10 01:36 PM	ICP-MS2_100421A
	Cell 21 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	50	04/21/10 03:00 PM	ICP-MS2_100421A
1004151-06A	Cell 25 (0-1')	Soil	SW1312/6020	SPLP Metals	40807	1	04/29/10 04:52 PM	ICP-MS2_100429B
	Cell 25 (0-1')	Soil	SW7471A	Total Mercury: Soil/Solid	40624	1	04/20/10 12:21 PM	CETAC_HG_100420A
	Cell 25 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	5	04/21/10 01:42 PM	ICP-MS2_100421A
	Cell 25 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	50	04/21/10 03:05 PM	ICP-MS2_100421A
1004151-07A	Cell 26 (0-1')	Soil	SW1312/6020	SPLP Metals	40807	1	04/29/10 04:57 PM	ICP-MS2_100429B
	Cell 26 (0-1')	Soil	SW7471A	Total Mercury: Soil/Solid	40624	1	04/20/10 11:57 AM	CETAC_HG_100420A
	Cell 26 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	5	04/21/10 01:53 PM	ICP-MS2_100421A
	Cell 26 (0-1')	Soil	SW6020	Trace Metals: ICP-MS - Solid	40623	50	04/21/10 03:11 PM	ICP-MS2_100421A

CLIENT: Larson & Associates

Project: Landfarm

Project No: 6-0137

Lab Order: 1004151

Client Sample ID: Cell 17 (0-1')

Lab ID: 1004151-01

Collection Date: 03/26/10 03:00 PM

Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0161	0.0402		mg/Kg-dry	1	04/20/10 12:07 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	2.34	0.490	0.980		mg/Kg	5	04/21/10 01:15 PM
Barium	100	0.490	1.96		mg/Kg	5	04/21/10 01:15 PM
Cadmium	0.251	0.0980	0.294	J	mg/Kg	5	04/21/10 01:15 PM
Chromium	9.27	0.490	1.96		mg/Kg	5	04/21/10 01:15 PM
Copper	4.51	0.490	1.96		mg/Kg	5	04/21/10 01:15 PM
Iron	6770	123	123		mg/Kg	50	04/21/10 02:38 PM
Lead	6.41	0.0980	0.294		mg/Kg	5	04/21/10 01:15 PM
Manganese	97.5	0.490	1.96		mg/Kg	5	04/21/10 01:15 PM
Selenium	0.671	0.147	0.490		mg/Kg	5	04/21/10 01:15 PM
Silver	ND	0.0980	0.196		mg/Kg	5	04/21/10 01:15 PM
Zinc	21.3	0.980	2.45		mg/Kg	5	04/21/10 01:15 PM
SPLP Metals		SW1312/6020					Analyst: KL
Cadmium	ND	0.000300	0.00100		mg/L	1	04/29/10 05:03 PM
Chromium	ND	0.00200	0.00600		mg/L	1	04/29/10 05:03 PM
Copper	ND	0.00200	0.0100		mg/L	1	04/29/10 05:03 PM
Lead	ND	0.000300	0.00100		mg/L	1	04/29/10 05:03 PM
Manganese	ND	0.00300	0.0100		mg/L	1	04/29/10 05:03 PM
Zinc	ND	0.00200	0.00500		mg/L	1	04/29/10 05:03 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- N Parameter not NELAC certified
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

DHL Analytical

Date: 05/03/10

CLIENT: Larson & Associates

Project: Landfarm

Project No: 6-0137

Lab Order: 1004151

Client Sample ID: Cell 8 (0-1')

Lab ID: 1004151-02

Collection Date: 03/26/10 02:45 PM

Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0161	0.0402		mg/Kg-dry	1	04/20/10 12:09 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	2.92	0.481	0.962		mg/Kg	5	04/21/10 01:20 PM
Barium	120	0.481	1.92		mg/Kg	5	04/21/10 01:20 PM
Cadmium	0.237	0.0962	0.288	J	mg/Kg	5	04/21/10 01:20 PM
Chromium	22.0	0.481	1.92		mg/Kg	5	04/21/10 01:20 PM
Copper	10.7	0.481	1.92		mg/Kg	5	04/21/10 01:20 PM
Iron	7500	120	120		mg/Kg	50	04/21/10 02:43 PM
Lead	17.2	0.0962	0.288		mg/Kg	5	04/21/10 01:20 PM
Manganese	92.8	0.481	1.92		mg/Kg	5	04/21/10 01:20 PM
Selenium	0.512	0.144	0.481		mg/Kg	5	04/21/10 01:20 PM
Silver	ND	0.0962	0.192		mg/Kg	5	04/21/10 01:20 PM
Zinc	26.4	0.962	2.40		mg/Kg	5	04/21/10 01:20 PM
SPLP Metals		SW1312/6020					Analyst: KL
Cadmium	ND	0.000300	0.00100		mg/L	1	04/29/10 04:35 PM
Chromium	ND	0.00200	0.00600		mg/L	1	04/29/10 04:35 PM
Copper	0.00298	0.00200	0.0100	J	mg/L	1	04/29/10 04:35 PM
Lead	0.00200	0.000300	0.00100		mg/L	1	04/29/10 04:35 PM
Manganese	0.0137	0.00300	0.0100		mg/L	1	04/29/10 04:35 PM
Zinc	0.00838	0.00200	0.00500		mg/L	1	04/29/10 04:35 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates

Project: Landfarm

Project No: 6-0137

Lab Order: 1004151

Client Sample ID: Cell 19 (0-1')

Lab ID: 1004151-03

Collection Date: 03/26/10 02:20 PM

Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0153	0.0383		mg/Kg-dry	1	04/20/10 12:11 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	2.41	0.485	0.971		mg/Kg	5	04/21/10 01:25 PM
Barium	133	0.485	1.94		mg/Kg	5	04/21/10 01:25 PM
Cadmium	0.171	0.0971	0.291	J	mg/Kg	5	04/21/10 01:25 PM
Chromium	8.39	0.485	1.94		mg/Kg	5	04/21/10 01:25 PM
Copper	2.59	0.485	1.94		mg/Kg	5	04/21/10 01:25 PM
Iron	5750	121	121		mg/Kg	50	04/21/10 02:49 PM
Lead	4.23	0.0971	0.291		mg/Kg	5	04/21/10 01:25 PM
Manganese	56.5	0.485	1.94		mg/Kg	5	04/21/10 01:25 PM
Selenium	0.501	0.146	0.485		mg/Kg	5	04/21/10 01:25 PM
Silver	ND	0.0971	0.194		mg/Kg	5	04/21/10 01:25 PM
Zinc	17.0	0.971	2.43		mg/Kg	5	04/21/10 01:25 PM
SPLP Metals		SW1312/6020					Analyst: KL
Manganese	ND	0.00300	0.0100		mg/L	1	04/29/10 04:41 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- N Parameter not NELAC certified
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

DHL Analytical

Date: 05/03/10

CLIENT: Larson & Associates

Project: Landfarm

Project No: 6-0137

Lab Order: 1004151

Client Sample ID: Cell 20 (0-1')

Lab ID: 1004151-04

Collection Date: 03/26/10 02:02 PM

Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0162	0.0404		mg/Kg-dry	1	04/20/10 12:17 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	1.88	0.476	0.952		mg/Kg	5	04/21/10 01:31 PM
Barium	179	0.476	1.90		mg/Kg	5	04/21/10 01:31 PM
Cadmium	0.140	0.0952	0.286	J	mg/Kg	5	04/21/10 01:31 PM
Chromium	6.65	0.476	1.90		mg/Kg	5	04/21/10 01:31 PM
Copper	1.97	0.476	1.90		mg/Kg	5	04/21/10 01:31 PM
Iron	4290	119	119		mg/Kg	50	04/21/10 02:54 PM
Lead	3.09	0.0952	0.286		mg/Kg	5	04/21/10 01:31 PM
Manganese	51.0	0.476	1.90		mg/Kg	5	04/21/10 01:31 PM
Selenium	0.386	0.143	0.476	J	mg/Kg	5	04/21/10 01:31 PM
Silver	ND	0.0952	0.190		mg/Kg	5	04/21/10 01:31 PM
Zinc	10.2	0.952	2.38		mg/Kg	5	04/21/10 01:31 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: Larson & Associates
 Project: Landfarm
 Project No: 6-0137
 Lab Order: 1004151

Client Sample ID: Cell 21 (0-1')
 Lab ID: 1004151-05
 Collection Date: 03/26/10 03:15 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0142	0.0355		mg/Kg-dry	1	04/20/10 12:19 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	2.86	0.476	0.952		mg/Kg	5	04/21/10 01:36 PM
Barium	146	0.476	1.90		mg/Kg	5	04/21/10 01:36 PM
Cadmium	0.244	0.0952	0.286	J	mg/Kg	5	04/21/10 01:36 PM
Chromium	8.57	0.476	1.90		mg/Kg	5	04/21/10 01:36 PM
Copper	4.35	0.476	1.90		mg/Kg	5	04/21/10 01:36 PM
Iron	5780	119	119		mg/Kg	50	04/21/10 03:00 PM
Lead	11.6	0.0952	0.286		mg/Kg	5	04/21/10 01:36 PM
Manganese	72.1	0.476	1.90		mg/Kg	5	04/21/10 01:36 PM
Selenium	0.665	0.143	0.476		mg/Kg	5	04/21/10 01:36 PM
Silver	ND	0.0952	0.190		mg/Kg	5	04/21/10 01:36 PM
Zinc	24.4	0.952	2.38		mg/Kg	5	04/21/10 01:36 PM
SPLP Metals		SW1312/6020					Analyst: KL
Cadmium	ND	0.000300	0.00100		mg/L	1	04/29/10 04:46 PM
Copper	0.00293	0.00200	0.0100	J	mg/L	1	04/29/10 04:46 PM
Lead	0.000861	0.000300	0.00100	J	mg/L	1	04/29/10 04:46 PM
Zinc	0.00539	0.00200	0.00500		mg/L	1	04/29/10 04:46 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern

J Analyte detected between MDL and RL
 MDL Method Detection Limit
 N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates

Project: Landfarm

Project No: 6-0137

Lab Order: 1004151

Client Sample ID: Cell 25 (0-1')

Lab ID: 1004151-06

Collection Date: 03/26/10 03:45 PM

Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0155	0.0387		mg/Kg-dry	1	04/20/10 12:21 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	2.78	0.481	0.962		mg/Kg	5	04/21/10 01:42 PM
Barium	80.5	0.481	1.92		mg/Kg	5	04/21/10 01:42 PM
Cadmium	0.438	0.0962	0.288		mg/Kg	5	04/21/10 01:42 PM
Chromium	14.8	0.481	1.92		mg/Kg	5	04/21/10 01:42 PM
Copper	3.55	0.481	1.92		mg/Kg	5	04/21/10 01:42 PM
Iron	5240	120	120		mg/Kg	50	04/21/10 03:05 PM
Lead	5.27	0.0962	0.288		mg/Kg	5	04/21/10 01:42 PM
Manganese	70.0	0.481	1.92		mg/Kg	5	04/21/10 01:42 PM
Selenium	0.768	0.144	0.481		mg/Kg	5	04/21/10 01:42 PM
Silver	0.241	0.0962	0.192		mg/Kg	5	04/21/10 01:42 PM
Zinc	116	0.962	2.40		mg/Kg	5	04/21/10 01:42 PM
SPLP Metals		SW1312/6020					Analyst: KL
Cadmium	ND	0.000300	0.00100		mg/L	1	04/29/10 04:52 PM
Chromium	ND	0.00200	0.00600		mg/L	1	04/29/10 04:52 PM
Lead	0.00108	0.000300	0.00100		mg/L	1	04/29/10 04:52 PM
Silver	ND	0.00100	0.00200		mg/L	1	04/29/10 04:52 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- N Parameter not NELAC certified
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

DHL Analytical

Date: 12-May-10

CLIENT: Larson & Associates
Project: Landfarm
Project No: 6-0137
Lab Order: 1004151

Client Sample ID: Cell 25 (0-1')
Lab ID: 1004151-06
Collection Date: 03/26/10 03:45 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471A					Analyst: LM
Mercury	ND	0.0155	0.0387		mg/Kg-dry	1	04/20/10 12:21 PM
TRACE METALS: ICP-MS - SOLID		SW6020					Analyst: KL
Arsenic	2.78	0.481	0.962		mg/Kg	5	04/21/10 01:42 PM
Barium	80.5	0.481	1.92		mg/Kg	5	04/21/10 01:42 PM
Cadmium	0.438	0.0962	0.288		mg/Kg	5	04/21/10 01:42 PM
Chromium	14.8	0.481	1.92		mg/Kg	5	04/21/10 01:42 PM
Copper	3.55	0.481	1.92		mg/Kg	5	04/21/10 01:42 PM
Iron	5240	120	120		mg/Kg	50	04/21/10 03:05 PM
Lead	5.27	0.0962	0.288		mg/Kg	5	04/21/10 01:42 PM
Manganese	70.0	0.481	1.92		mg/Kg	5	04/21/10 01:42 PM
Selenium	0.768	0.144	0.481		mg/Kg	5	04/21/10 01:42 PM
Silver	0.241	0.0962	0.192		mg/Kg	5	04/21/10 01:42 PM
Zinc	116	0.962	2.40		mg/Kg	5	04/21/10 01:42 PM
SPLP METALS		SW1312/6020					Analyst: KL
Cadmium	ND	0.000300	0.00100		mg/L	1	04/29/10 04:52 PM
Chromium	ND	0.00200	0.00600		mg/L	1	04/29/10 04:52 PM
Lead	0.00108	0.000300	0.00100		mg/L	1	04/29/10 04:52 PM
Silver	ND	0.00100	0.00200		mg/L	1	04/29/10 04:52 PM
Zinc	0.0104	0.00200	0.00500		mg/L	1	04/29/10 04:52 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

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5/12/10

CLIENT: Larson & Associates
 Project: Landfarm
 Project No: 6-0137
 Lab Order: 1004151

Client Sample ID: Cell 26 (0-1')
 Lab ID: 1004151-07
 Collection Date: 03/26/10 03:25 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	ND	0.0159	0.0397		mg/Kg-dry	1	04/20/10 11:57 AM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: KL
Arsenic	2.39	0.420	0.840		mg/Kg	5	04/21/10 01:53 PM
Barium	62.5	0.420	1.68		mg/Kg	5	04/21/10 01:53 PM
Cadmium	0.226	0.0840	0.252	J	mg/Kg	5	04/21/10 01:53 PM
Chromium	9.17	0.420	1.68		mg/Kg	5	04/21/10 01:53 PM
Copper	4.42	0.420	1.68		mg/Kg	5	04/21/10 01:53 PM
Iron	6660	105	105		mg/Kg	50	04/21/10 03:11 PM
Lead	5.43	0.0840	0.252		mg/Kg	5	04/21/10 01:53 PM
Manganese	104	0.420	1.68		mg/Kg	5	04/21/10 01:53 PM
Selenium	0.749	0.126	0.420		mg/Kg	5	04/21/10 01:53 PM
Silver	ND	0.0840	0.168		mg/Kg	5	04/21/10 01:53 PM
Zinc	20.9	0.840	2.10		mg/Kg	5	04/21/10 01:53 PM
SPLP Metals		SW1312/6020					Analyst: KL
Cadmium	ND	0.000300	0.00100		mg/L	1	04/29/10 04:57 PM
Copper	0.00336	0.00200	0.0100	J	mg/L	1	04/29/10 04:57 PM
Lead	0.00231	0.000300	0.00100		mg/L	1	04/29/10 04:57 PM
Manganese	0.0446	0.00300	0.0100		mg/L	1	04/29/10 04:57 PM
Zinc	0.0150	0.00200	0.00500		mg/L	1	04/29/10 04:57 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern

- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- N Parameter not NELAC certified
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Work Order: 1004151
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_100420A

Sample ID:	MB-40624	Batch ID:	40624	TestNo:	SW7471A	Units:	mg/Kg				
SampType:	MBLK	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 11:30 AM	Prep Date:	04/19/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		ND	0.0400								
Sample ID:	LCS-40624	Batch ID:	40624	TestNo:	SW7471A	Units:	mg/Kg				
SampType:	LCS	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 11:36 AM	Prep Date:	04/19/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.211	0.0400	0.2000	0	106	85	115			
Sample ID:	LCSD-40624	Batch ID:	40624	TestNo:	SW7471A	Units:	mg/Kg				
SampType:	LCSD	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 11:38 AM	Prep Date:	04/19/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.212	0.0400	0.2000	0	106	85	115	0.473	25	
Sample ID:	1004151-07A SD	Batch ID:	40624	TestNo:	SW7471A	Units:	mg/Kg-dry				
SampType:	SD	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 11:59 AM	Prep Date:	04/19/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0	0.199	0	0				0	10	
Sample ID:	1004151-07A PDS	Batch ID:	40624	TestNo:	SW7471A	Units:	mg/Kg-dry				
SampType:	PDS	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 12:01 PM	Prep Date:	04/19/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.269	0.0397	0.2483	0	108	85	115			
Sample ID:	1004151-07A MS	Batch ID:	40624	TestNo:	SW7471A	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 12:03 PM	Prep Date:	04/19/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.221	0.0394	0.1971	0	112	80	120			
Sample ID:	1004151-07A MSD	Batch ID:	40624	TestNo:	SW7471A	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 12:05 PM	Prep Date:	04/19/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.221	0.0390	0.1949	0	113	80	120	0.183	25	

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 J Analyte detected between SDL and RL
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004151
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_100420A

Sample ID:	ICV-100420	Batch ID:	R48973	TestNo:	SW7471A	Units:	mg/Kg
SampType:	ICV	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 11:24 AM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit
Mercury		0.00364	0.0400	0.004000	0	91.0	90
							HighLimit
							%RPD
							RPD Limit
							Qual

Sample ID:	CCV1-100420	Batch ID:	R48973	TestNo:	SW7471A	Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 11:48 AM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit
Mercury		0.00208	0.0400	0.002000	0	104	90
							HighLimit
							%RPD
							RPD Limit
							Qual

Sample ID:	CCV2-100420	Batch ID:	R48973	TestNo:	SW7471A	Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 12:13 PM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit
Mercury		0.00209	0.0400	0.002000	0	104	90
							HighLimit
							%RPD
							RPD Limit
							Qual

Sample ID:	CCV3-100420	Batch ID:	R48973	TestNo:	SW7471A	Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC_HG_100420A	Analysis Date:	04/20/10 12:23 PM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit
Mercury		0.00212	0.0400	0.002000	0	106	90
							HighLimit
							%RPD
							RPD Limit
							Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004151
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100421A

Sample ID:	MB-40623	Batch ID:	40623	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS2_100421A	Analysis Date:	04/21/10 12:53 PM	Prep Date:	04/19/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	ND	1.00								
Barium	ND	2.00								
Cadmium	ND	0.300								
Chromium	ND	2.00								
Copper	ND	2.00								
Iron	ND	12.5								
Lead	ND	0.300								
Manganese	ND	2.00								
Selenium	ND	0.500								
Silver	ND	0.200								
Zinc	ND	2.50								

Sample ID:	LCS-40623	Batch ID:	40623			TestNo:	SW6020		Units:	mg/Kg		
SampType:	LCS	Run ID:	ICP-MS2_100421A			Analysis Date:	04/21/10 12:58 PM		Prep Date:	04/19/10		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Arsenic		47.9	1.00	50.00	0	95.9	80	120				
Barium		51.7	2.00	50.00	0	103	80	120				
Cadmium		50.7	0.300	50.00	0	101	80	120				
Chromium		54.0	2.00	50.00	0	108	80	120				
Copper		49.6	2.00	50.00	0	99.1	80	120				
Iron		279	12.5	250.0	0	112	80	120				
Lead		50.9	0.300	50.00	0	102	80	120				
Manganese		54.4	2.00	50.00	0	109	80	120				
Selenium		45.1	0.500	50.00	0	90.2	80	120				
Silver		48.9	0.200	50.00	0	97.8	80	120				
Zinc		48.3	2.50	50.00	0	96.6	80	120				

Sample ID:	LCSD-40623	Batch ID:	40623			TestNo:	SW6020		Units:	mg/Kg	
SampType:	LCSD	Run ID:	ICP-MS2_100421A			Analysis Date:	04/21/10 01:04 PM		Prep Date:	04/19/10	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		48.7	1.00	50.00	0	97.4	80	120	1.60	20	
Barium		51.7	2.00	50.00	0	103	80	120	0.096	20	
Cadmium		51.0	0.300	50.00	0	102	80	120	0.590	20	
Chromium		54.4	2.00	50.00	0	109	80	120	0.691	20	
Copper		50.2	2.00	50.00	0	101	80	120	1.40	20	
Iron		279	12.5	250.0	0	112	80	120	0.089	20	
Lead		51.0	0.300	50.00	0	102	80	120	0.196	20	
Manganese		54.8	2.00	50.00	0	110	80	120	0.595	20	
Selenium		45.3	0.500	50.00	0	90.6	80	120	0.443	20	
Silver		48.7	0.200	50.00	0	97.4	80	120	0.410	20	
Zinc		49.3	2.50	50.00	0	98.6	80	120	2.00	20	

Sample ID:	1004151-07A SD	Batch ID:	40623	TestNo:	SW6020	Units:	mg/Kg
SampType:	SD	Run ID:	ICP-MS2_100421A	Analysis Date:	04/21/10 01:58 PM	Prep Date:	04/19/10

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004151
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100421A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	2.15	4.20	0	2.395				10.6	10	R
Barium	59.6	8.40	0	62.46				4.70	10	
Cadmium	0	1.26	0	0.2256				0	10	
Chromium	8.96	8.40	0	9.168				2.28	10	
Copper	4.08	8.40	0	4.420				7.96	10	
Lead	5.18	1.26	0	5.435				4.71	10	
Manganese	104	8.40	0	104.3				0.515	10	
Selenium	0	2.10	0	0.7485				0	10	
Silver	0	0.840	0	0				0	10	
Zinc	19.8	10.5	0	20.89				5.38	10	

Sample ID:	1004151-07A PDS	Batch ID:	40623			TestNo:	SW6020		Units:	mg/Kg	
SampType:	PDS	Run ID:	ICP-MS2_100421A			Analysis Date:	04/21/10 02:03 PM		Prep Date:	04/19/10	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		43.3	0.840	42.02	2.395	97.4	75	125			
Barium		107	1.68	42.02	62.46	105	75	125			
Cadmium		40.9	0.252	42.02	0.2256	96.9	75	125			
Chromium		51.3	1.68	42.02	9.168	100	75	125			
Copper		44.3	1.68	42.02	4.420	94.9	75	125			
Lead		48.3	0.252	42.02	5.435	102	75	125			
Manganese		147	1.68	42.02	104.3	101	75	125			
Selenium		38.8	0.420	42.02	0.7485	90.7	75	125			
Silver		39.8	0.168	42.02	0	94.8	75	125			
Zinc		60.7	2.10	42.02	20.89	94.8	75	125			

Sample ID:	1004151-07A MS	Batch ID:	40623		TestNo:	SW6020			Units:	mg/Kg		
SampType:	MS	Run ID:	ICP-MS2_100421A		Analysis Date:	04/21/10 02:09 PM			Prep Date:	04/19/10		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Arsenic		41.7	0.847	42.37	2.395	92.7	80	120				
Barium		114	1.69	42.37	62.46	123	80	120			S	
Cadmium		44.4	0.254	42.37	0.2256	104	80	120				
Chromium		51.6	1.69	42.37	9.168	100	80	120				
Copper		43.6	1.69	42.37	4.420	92.4	80	120				
Lead		50.8	0.254	42.37	5.435	107	80	120				
Manganese		144	1.69	42.37	104.3	93.3	80	120				
Selenium		37.6	0.424	42.37	0.7485	87.0	80	120				
Silver		42.4	0.169	42.37	0	100	80	120				
Zinc		59.4	2.12	42.37	20.89	90.9	80	120				

Sample ID:	1004151-07A MSD	Batch ID:	40623	TestNo:	SW6020	Units:	mg/Kg				
SampType:	MSD	Run ID:	ICP-MS2_100421A	Analysis Date:	04/21/10 02:14 PM	Prep Date:	04/19/10				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		40.9	0.855	42.74	2.395	90.1	80	120	1.93	20	
Barium		107	1.71	42.74	62.46	105	80	120	6.36	20	
Cadmium		42.1	0.256	42.74	0.2256	97.9	80	120	5.50	20	
Chromium		49.7	1.71	42.74	9.168	94.7	80	120	3.86	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004151
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100421A

Copper	42.6	1.71	42.74	4.420	89.5	80	120	2.16	20
Lead	47.8	0.256	42.74	5.435	99.2	80	120	6.09	20
Manganese	139	1.71	42.74	104.3	82.0	80	120	3.16	20
Selenium	37.6	0.427	42.74	0.7485	86.2	80	120	0.054	20
Silver	39.8	0.171	42.74	0	93.2	80	120	6.24	20
Zinc	58.4	2.14	42.74	20.89	87.8	80	120	1.75	20

Sample ID:	1004151-07A SD	Batch ID:	40623	TestNo:	SW6020	Units:	mg/Kg			
SampType:	SD	Run ID:	ICP-MS2_100421A	Analysis Date:	04/21/10 03:16 PM	Prep Date:	04/19/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	7790	525	0	6658				15.7	10	R

Sample ID:	1004151-07A PDS	Batch ID:	40623	TestNo:	SW6020	Units:	mg/Kg			
SampType:	PDS	Run ID:	ICP-MS2_100421A	Analysis Date:	04/21/10 03:22 PM	Prep Date:	04/19/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	15500	105	10500	6658	84.1	75	125			

Sample ID:	1004151-07A MS	Batch ID:	40623	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MS	Run ID:	ICP-MS2_100421A	Analysis Date:	04/21/10 03:27 PM	Prep Date:	04/19/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	6900	106	211.9	6658	115	80	120			

Sample ID:	1004151-07A MSD	Batch ID:	40623	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MSD	Run ID:	ICP-MS2_100421A	Analysis Date:	04/21/10 03:32 PM	Prep Date:	04/19/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	6610	107	213.7	6658	-20.7	80	120	4.25	20	S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004151
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100421A

Sample ID:	ICV1-100421	Batch ID:	R49009		TestNo:	SW1312/6020		Units:	mg/L		
SampType:	ICV	Run ID:	ICP-MS2_100421A		Analysis Date:	04/21/10 11:15 AM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		0.0989	0.00600	0.100	0	98.9	90	110			
Barium		0.0973	0.0100	0.100	0	97.3	90	110			
Cadmium		0.0959	0.00100	0.100	0	95.9	90	110			
Chromium		0.100	0.00600	0.100	0	100	90	110			
Copper		0.103	0.0100	0.100	0	103	90	110			
Iron		2.55	0.150	2.50	0	102	90	110			
Lead		0.0971	0.00100	0.100	0	97.1	90	110			
Manganese		0.102	0.0100	0.100	0	102	90	110			
Selenium		0.0983	0.00600	0.100	0	98.3	90	110			
Silver		0.0964	0.00200	0.100	0	96.4	90	110			
Zinc		0.103	0.00500	0.100	0	103	90	110			

Sample ID:	CCV1-100421	Batch ID:	R49009		TestNo:	SW1312/6020		Units:	mg/L		
SampType:	CCV	Run ID:	ICP-MS2_100421A		Analysis Date:	04/21/10 12:36 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		0.195	0.00600	0.200	0	97.6	90	110			
Barium		0.205	0.0100	0.200	0	102	90	110			
Cadmium		0.203	0.00100	0.200	0	102	90	110			
Chromium		0.211	0.00600	0.200	0	105	90	110			
Copper		0.196	0.0100	0.200	0	98.2	90	110			
Iron		4.73	0.150	5.00	0	94.5	90	110			
Lead		0.202	0.00100	0.200	0	101	90	110			
Manganese		0.213	0.0100	0.200	0	107	90	110			
Selenium		0.191	0.00600	0.200	0	95.3	90	110			
Silver		0.194	0.00200	0.200	0	96.8	90	110			
Zinc		0.199	0.00500	0.200	0	99.4	90	110			

Sample ID:	CCV2-100421	Batch ID:	R49009		TestNo:	SW1312/6020		Units:	mg/L		
SampType:	CCV	Run ID:	ICP-MS2_100421A		Analysis Date:	04/21/10 02:19 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		0.192	0.00600	0.200	0	96.2	90	110			
Barium		0.205	0.0100	0.200	0	103	90	110			
Cadmium		0.200	0.00100	0.200	0	100	90	110			
Chromium		0.216	0.00600	0.200	0	108	90	110			
Copper		0.192	0.0100	0.200	0	96.2	90	110			
Iron		4.57	0.150	5.00	0	91.4	90	110			
Lead		0.199	0.00100	0.200	0	99.4	90	110			
Manganese		0.217	0.0100	0.200	0	109	90	110			
Selenium		0.186	0.00600	0.200	0	93.2	90	110			
Silver		0.195	0.00200	0.200	0	97.4	90	110			
Zinc		0.198	0.00500	0.200	0	99.2	90	110			

Sample ID:	CCV3-100421	Batch ID:	R49009	TestNo:	SW1312/6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_100421A	Analysis Date:	04/21/10 04:00 PM	Prep Date:	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1004151
Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100421A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	4.51	0.150	5.00	0	90.1	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004151
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100429B

Sample ID:	MB-40807	Batch ID:	40807	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 04:08 PM	Prep Date:	04/29/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	ND	0.00100								
Chromium	ND	0.00600								
Copper	ND	0.0100								
Lead	ND	0.00100								
Manganese	ND	0.0100								
Silver	ND	0.00200								
Zinc	ND	0.00500								

Sample ID:	LCS-40807	Batch ID:	40807	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 04:24 PM	Prep Date:	04/29/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	0.206	0.00100	0.200	0	103	80	120			
Chromium	0.216	0.00600	0.200	0	108	80	120			
Copper	0.205	0.0100	0.200	0	102	80	120			
Lead	0.201	0.00100	0.200	0	101	80	120			
Manganese	0.222	0.0100	0.200	0	111	80	120			
Silver	0.198	0.00200	0.200	0	98.8	80	120			
Zinc	0.212	0.00500	0.200	0	106	80	120			

Sample ID:	1004151-01A SD	Batch ID:	40807	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 05:08 PM	Prep Date:	04/29/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	0	0.00500	0	0				0	10	
Chromium	0	0.0300	0	0				0	10	
Copper	0	0.0500	0	0				0	10	
Lead	0	0.00500	0	0				0	10	
Manganese	0	0.0500	0	0				0	10	
Silver	0	0.0100	0	0				0	10	
Zinc	0	0.0250	0	0				0	0	

Sample ID:	1004151-01A PDS	Batch ID:	40807	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 05:14 PM	Prep Date:	04/29/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	0.194	0.00100	0.200	0	96.8	75	125			
Chromium	0.210	0.00600	0.200	0	105	75	125			
Copper	0.198	0.0100	0.200	0	98.8	75	125			
Lead	0.194	0.00100	0.200	0	97.0	75	125			
Manganese	0.216	0.0100	0.200	0	108	75	125			
Silver	0.188	0.00200	0.200	0	93.8	75	125			
Zinc	0.203	0.00500	0.200	0	101	75	125			

Sample ID:	1004151-01A MS	Batch ID:	40807	TestNo:	SW1312/6020	Units:	mg/L
SampType:	MS	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 05:19 PM	Prep Date:	04/29/10

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004151
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100429B

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	0.203	0.00100	0.200	0	102	80	120			
Chromium	0.213	0.00600	0.200	0	106	80	120			
Copper	0.201	0.0100	0.200	0	101	80	120			
Lead	0.202	0.00100	0.200	0	101	80	120			
Manganese	0.222	0.0100	0.200	0	111	80	120			
Silver	0.192	0.00200	0.200	0	96.2	80	120			
Zinc	0.206	0.00500	0.200	0	103	80	120			

Sample ID:	1004151-01A MSD	Batch ID:	40807	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 05:25 PM	Prep Date:	04/29/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	0.205	0.00100	0.200	0	103	80	120	1.03	15	
Chromium	0.218	0.00600	0.200	0	109	80	120	2.51	15	
Copper	0.203	0.0100	0.200	0	101	80	120	0.742	15	
Lead	0.203	0.00100	0.200	0	101	80	120	0.049	15	
Manganese	0.223	0.0100	0.200	0	111	80	120	0.540	15	
Silver	0.196	0.00200	0.200	0	97.8	80	120	1.70	15	
Zinc	0.203	0.00500	0.200	0	102	80	120	1.12	15	

Sample ID:	LCSD-40807	Batch ID:	40807	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	LCSD	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 05:30 PM	Prep Date:	04/29/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	0.205	0.00100	0.200	0	103	80	120	0.389	15	
Chromium	0.221	0.00600	0.200	0	110	80	120	2.38	15	
Copper	0.203	0.0100	0.200	0	101	80	120	0.933	15	
Lead	0.203	0.00100	0.200	0	102	80	120	0.940	15	
Manganese	0.224	0.0100	0.200	0	112	80	120	0.944	15	
Silver	0.194	0.00200	0.200	0	96.8	80	120	1.99	15	
Zinc	0.206	0.00500	0.200	0	103	80	120	2.92	15	

Sample ID:	MB-40798 SPLP	Batch ID:	40807	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 05:46 PM	Prep Date:	04/29/10			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	ND	0.00100								
Chromium	0.00589	0.00600								
Copper	ND	0.0100								
Lead	ND	0.00100								
Manganese	ND	0.0100								
Silver	ND	0.00200								
Zinc	ND	0.00500								

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1004151
 Project: Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_100429B

Sample ID:	ICV1-100429	Batch ID:	R49149	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 01:07 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	0.0990	0.00100	0.100	0	99.0	90	110			
Chromium	0.102	0.00600	0.100	0	102	90	110			
Copper	0.103	0.0100	0.100	0	103	90	110			
Lead	0.0978	0.00100	0.100	0	97.8	90	110			
Manganese	0.104	0.0100	0.100	0	104	90	110			
Silver	0.0978	0.00200	0.100	0	97.8	90	110			
Zinc	0.104	0.00500	0.100	0	104	90	110			

Sample ID:	CCV2-100429	Batch ID:	R49149	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 03:51 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	0.198	0.00100	0.200	0	99.2	90	110			
Chromium	0.212	0.00600	0.200	0	106	90	110			
Copper	0.195	0.0100	0.200	0	97.6	90	110			
Lead	0.192	0.00100	0.200	0	96.2	90	110			
Manganese	0.212	0.0100	0.200	0	106	90	110			
Silver	0.190	0.00200	0.200	0	95.2	90	110			
Zinc	0.198	0.00500	0.200	0	99.1	90	110			

Sample ID:	CCV3-100429	Batch ID:	R49149	TestNo:	SW1312/6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_100429B	Analysis Date:	04/29/10 05:52 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cadmium	0.199	0.00100	0.200	0	99.6	90	110			
Chromium	0.211	0.00600	0.200	0	106	90	110			
Copper	0.197	0.0100	0.200	0	98.4	90	110			
Lead	0.195	0.00100	0.200	0	97.4	90	110			
Manganese	0.214	0.0100	0.200	0	107	90	110			
Silver	0.188	0.00200	0.200	0	93.9	90	110			
Zinc	0.201	0.00500	0.200	0	101	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified