

1R - 1554

WORKPLANS

DATE:

9-4-07



Highlander Environmental Corp.

Midland, Texas

September 4, 2007

1R554
- MW
GW-IMPACT
(closed pit)

Mr. Larry Johnson
Environmental Engineer Specialist
Oil Conservation Division- District I
1625 N. French Drive
Hobbs, New Mexico 88240

RECEIVED
2007 SEP 19 PM 2:13

RE: Workplan for Capping and Site Closure for the Pit Located at Rock Queen Unit Tank Battery #1, Section 25, Township 13 South, Range 31 East, Chaves County, New Mexico, Operated by Celero Energy II LP.

Dear Mr. Johnson:

Celero retained Highlander Environmental (Highlander) of Midland, Texas to investigate this site as part of a due diligence in an acquisition of property operated by Palisades Asset Holding Company, LLC (Palisades).

Background & Previous Work

This production was originally developed in the mid-1950's. The primary surface owner in this Unit is the State of New Mexico, with the exception of one section of fee ownership. Highlander installed one monitoring well at the pit location and one background well upgradient of the tank battery. The monitoring well (MW-1) at the pit had elevated chlorides. A Groundwater Impact Notification was submitted to the NMOCD on June 18, 2007. The site is shown on Figures 1 and 2.

The Tract 1 Tank Battery pit was dewatered and the residual sludge, tank bottom materials, and liner removed in late July and early August 2007. Removed fluids were placed into an existing SWD system or taken to disposal, while the sludge, tank bottom materials, and liner were disposed of at Gandy-Marley, Inc landfill site of Lovington, New Mexico. Upon completion of the removal of the fluids, sludge and liner, the underlying soils were visually inspected for obvious signs of impact. Approximately 200 cubic yard of soil were excavated and hauled to Gandy-Marley, Inc. for disposal. The pit was excavated to a point where the subsoil would support a soil boring rig.

Hydrology

Chaves County is located in the southeastern corner of New Mexico. The area is located in the High Plains Valley section of the Great Plains physiographic province. Rocks of Quaternary, Tertiary, and Triassic age are exposed and contain the principal aquifers. The most prominent aquifer is the Ogallala formation, which underlies the Llano Estacado and forms outliers south of it. Below the Cenozoic rocks are sandstones and shales of the Dockum group of Late Triassic age, from which small quantities of water are obtained. No usable groundwater is obtained from rocks older than the Triassic.

The Ogallala formation consists chiefly of sediments deposited by streams that had their headwaters in the mountainous regions to the west and northwest. The Ogallala formation rests unconformably upon an erosional surface of the underlying Triassic and Cretaceous rocks. The Ogallala is made of beds and lenses of clay, silt, sand, and gravel. Caliche occurs as a secondary deposit in many places in the formation.

Uncontaminated water from the Ogallala formation is high in silica (49 to 73 ppm), and contains moderate concentrations of calcium and magnesium. The dissolved solids content is relatively low, being typically less than 1,100 ppm. Water wells east of Mescalero Ridge derive their water from the Ogallala. The reported depth to groundwater in this area ranges from 100' to 200'. Water wells west of Mescalero Ridge derive water from the Triassic Dockum or Quaternary alluvium. No reported depths to groundwater were found for this area.

Regulatory

Neither the New Mexico State Engineer's Office database nor the USGS database show any wells in Section 25, Township 13 South, Range 31 East. The monitor wells installed at this site had a depth to groundwater of 119'.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Borings

Upon approval from the NMOCD, on August 20-21, 2007, Highlander supervised the installation of soil borings at the pit. Prior to the installation of the borings, a visual inspection was performed around the perimeter of the pit. The area of the pit measured approximately 106' x 120'. One soil boring (SB-1) was installed in the center of the pit.



The remaining boreholes (SB-2, SB-3, SB-4 SB-5 and SB-6) were installed outside the edges of the pit. The boring locations and the approximate edge of the pit are shown on Figure 3.

The boreholes were installed using an air-rotary type drilling rig. Soil samples were collected at 5 foot intervals to 20' and then 10' intervals during drilling operations, field screened with a PID, and field screened for chlorides. Soil samples were collected to depths of 50' to 90' below ground surface.

The soil samples were field screened for chlorides to determine if impacts showed a distinctive decline with depth. Selected soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO, benzene, toluene, ethylbenzene, and xylene (BTEX) by method 8021B and chloride by method 4500 Cl-B. All samples were collected and preserved in laboratory prepared sample containers with standard QA/QC procedures. All samples were shipped under proper chain-of-custody control and analyzed within the standard holding times. The results of the sampling are shown in Table 1. The laboratory reports and chain of custody are included in Appendix A.

All down hole equipment was washed between boreholes or sampling events using potable water and laboratory grade detergent. All down hole equipment (i.e., drill rods, drill bits, etc.) were thoroughly decontaminated between each use with a high-pressure hot water wash and rinse. Soil cuttings from drilling were stockpiled adjacent to the borehole. Following the completion of the drilling activities, all boreholes were grouted to surface.

Borehole Sample Results

Referring to Table 1, the samples selected for TPH and BTEX analysis were all below the reporting limit. Chloride impact was found throughout SB-1. The perimeter soil borings SB-2 and SB-4 showed some elevated chloride concentrations with depth. A new battery pad with 60 mil impervious liner has been installed north of SB-2 effectively capping any residual chloride concentrations north of SB-2. SB-6 was installed west of SB-4 and showed minimal chloride impact. SB-3 and SB-5 showed minimal chloride impact.

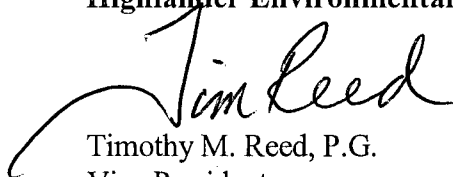
Soil Capping

Highlander proposes the installation of a 40 mil impervious, synthetic liner to encapsulate the impacted subsurface soil. The cap area is shown on Figure 4. The pit area will be excavated out approximately 25' in all directions from the current excavation to provide adequate coverage. The soils will be excavated to a depth of 4.0' below ground surface. The soils previously removed from the pit area will be placed back into the center of the original excavation up to a depth of 4.0'. The liner will be properly bedded to ensure no ruptures from underlying rock. Upon completion of the liner placement, the overburden material stripped from the 25' wide expansion will be utilized to backfill the site and bring it to grade.



When capping activities have been concluded, a closure report will be submitted to the NMOCD for final review. If you require any additional information or have any questions or comments, please call.

Highlander Environmental Corp.


Timothy M. Reed, P.G.
Vice President

cc: Bruce Woodard – Celero
Wayne Price - NMOCD



FIGURES

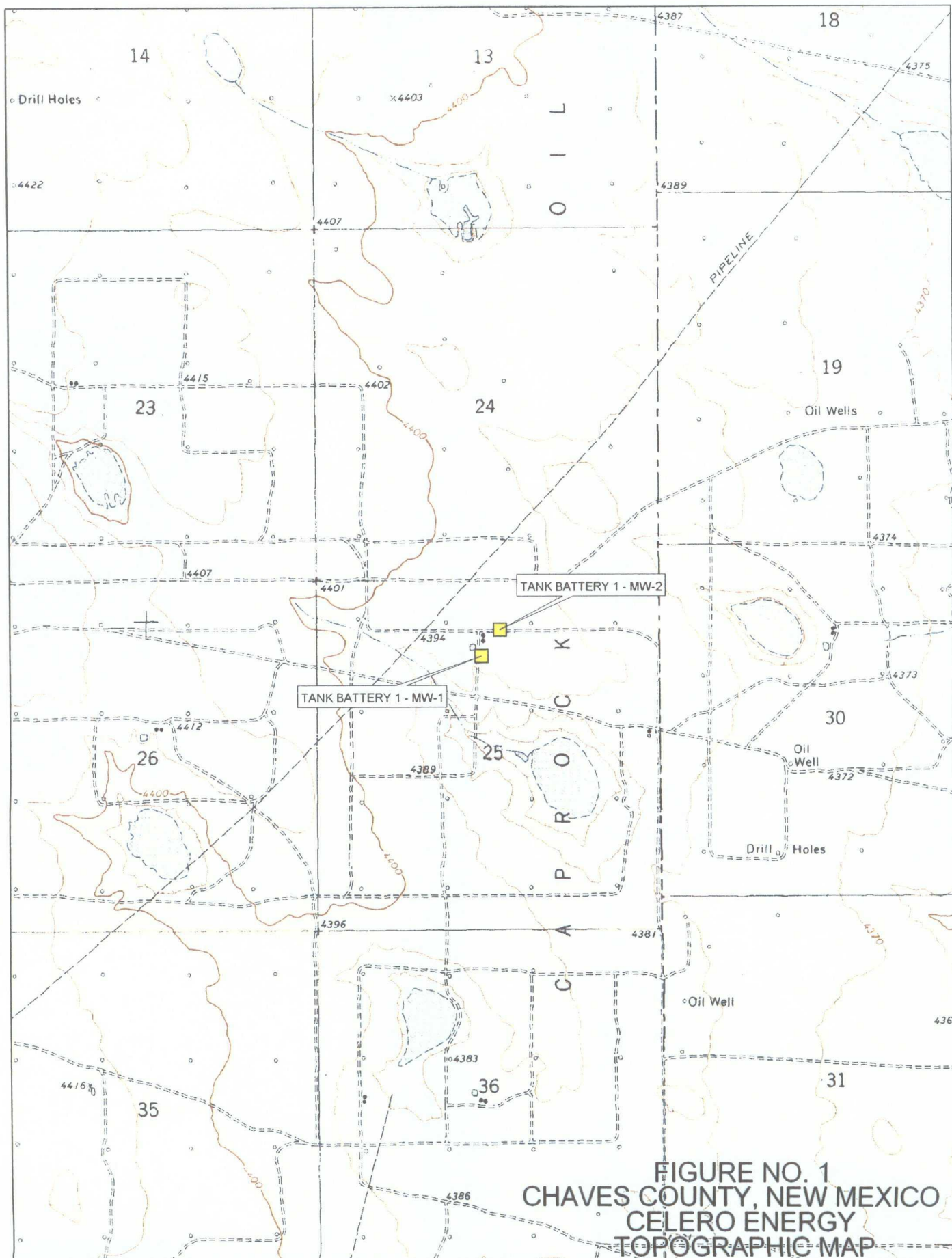
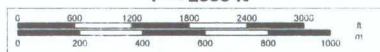


FIGURE NO. 1
CHAVES COUNTY, NEW MEXICO
CELERO ENERGY
TOPOGRAPHIC MAP



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www.delorme.com

Scale 1 : 24,000
1" = 2000 ft



TRACT 1 TANK BATTERY - MW-2



TB

PIT EXCAVATION
(120' X 103')



TRACT 1 TANK BATTERY - MW-1

FIGURE NO. 2

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
TRACT 1 TANK BATTERY
SITE MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

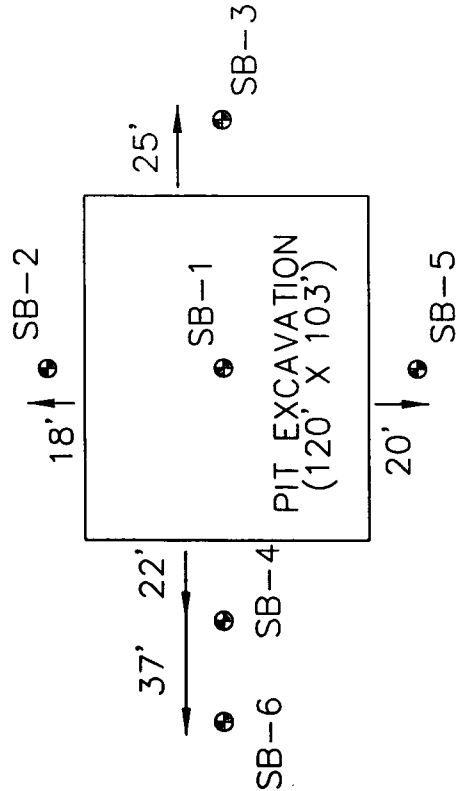
DATE: 9/4/07

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FILE: 000001120
TRACT 1 TB

NOT TO SCALE

TRACT 1 TANK BATTERY - MW-2



TRACT 1 TANK BATTERY - MW-1



FIGURE NO. 3

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
TRACT 1 TANK BATTERY
SOIL BORING LOCATIONS

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
9/4/07

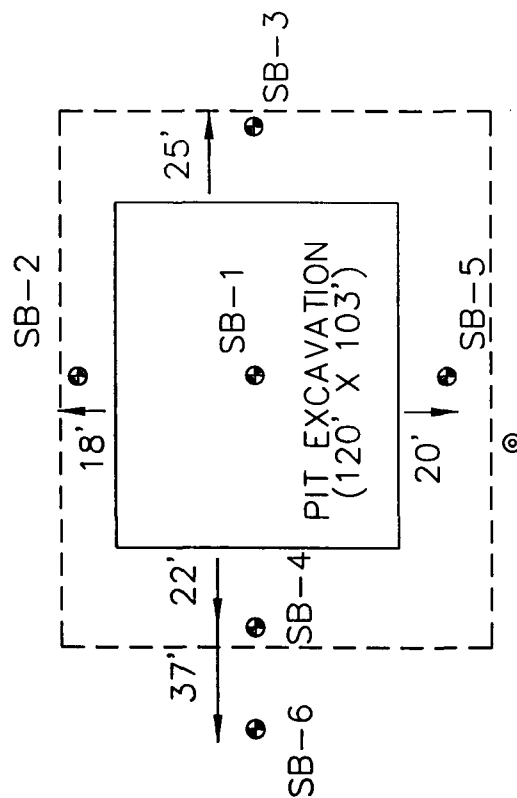
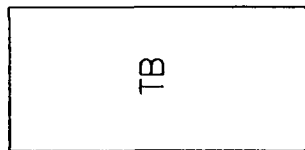
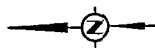
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RC

FILE:
HSE-000000000000
TRACT 1 TB

NOT TO SCALE

TRACT 1 TANK BATTERY - MW-2

©



TRACT 1 TANK BATTERY - MW-1

PROPOSED CAP

FIGURE NO. 4

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY

TRACT 1 TANK BATTERY

PROPOSED CAP LOCATION

HIGHLANDER ENVIRONMENTAL CORP.

MIDLAND, TEXAS

DATE:
9/4/07

DRAWN BY:
RC

FILE:
CELERO3120A
TRACT 1 TB

NOT TO SCALE

TABLES

Celero Energy II LP
Tank Battery #1 Pit
Chaves County, NM

Sample ID	Date Sampled	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			C6	C12	C12-C35	Total					
SB-1	8/20/2007	3-5	<50.0	<1.00	<1.00	<50.0	<0.001	<0.001	<0.001	<0.001	19,300
SB-1	8/20/2007	8-10	<50.0	<1.00	<1.00	<50.0	-	-	-	-	2,880
SB-1	8/20/2007	13-15	<50.0	<1.00	<1.00	<50.0	-	-	-	-	3,650
SB-1	8/20/2007	18-20	-	-	-	-	-	-	-	-	2,800
SB-1	8/20/2007	28-30	-	-	-	-	-	-	-	-	13,200
SB-1	8/20/2007	38-40	-	-	-	-	-	-	-	-	2,720
SB-1	8/20/2007	48-50	-	-	-	-	-	-	-	-	10,100
SB-1	8/20/2007	58-60	-	-	-	-	-	-	-	-	11,100
SB-1	8/20/2007	68-70	-	-	-	-	-	-	-	-	2,240
SB-1	8/20/2007	78-80	-	-	-	-	-	-	-	-	1,530
SB-1	8/20/2007	88-90	-	-	-	-	-	-	-	-	1,700
SB-2	8/20/2007	8-10	-	-	-	-	-	-	-	-	1,400
SB-2	8/20/2007	18-20	-	-	-	-	-	-	-	-	1,740
SB-2	8/20/2007	28-30	-	-	-	-	-	-	-	-	596
SB-2	8/20/2007	38-40	-	-	-	-	-	-	-	-	2,830
SB-2	8/20/2007	48-50	-	-	-	-	-	-	-	-	2,420
SB-3	8/20/2007	8-10	-	-	-	-	-	-	-	-	280
SB-3	8/20/2007	18-20	-	-	-	-	-	-	-	-	1,770
SB-3	8/20/2007	28-30	-	-	-	-	-	-	-	-	129
SB-3	8/20/2007	38-40	-	-	-	-	-	-	-	-	<100
SB-3	8/20/2007	48-50	-	-	-	-	-	-	-	-	<100
SB-4	8/21/2007	8-10	-	-	-	-	-	-	-	-	<100
SB-4	8/21/2007	18-20	-	-	-	-	-	-	-	-	1,820
SB-4	8/21/2007	28-30	-	-	-	-	-	-	-	-	2,950
SB-4	8/21/2007	38-40	-	-	-	-	-	-	-	-	5,360
SB-4	8/21/2007	48-50	-	-	-	-	-	-	-	-	4,040
SB-5	8/21/2007	8-10	-	-	-	-	-	-	-	-	<100
SB-5	8/21/2007	18-20	-	-	-	-	-	-	-	-	<100
SB-5	8/21/2007	28-30	-	-	-	-	-	-	-	-	<100
SB-5	8/21/2007	38-40	-	-	-	-	-	-	-	-	499
SB-5	8/21/2007	48-50	-	-	-	-	-	-	-	-	<100

(-) Not Analyzed

[illegible][illegible]

APPENDIX A

Summary Report

Tim Reed
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: August 29, 2007

Work Order: 7082227



Project Location: N/A
Project Name: Celero-Track 1 Tank Battery
Project Number: 3129

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
133920	SB-1 (3-5')	soil	2007-08-20	00:00	2007-08-22
133921	SB-1 (8-10')	soil	2007-08-20	00:00	2007-08-22
133922	SB-1 (13-15')	soil	2007-08-20	00:00	2007-08-22
133923	SB-1 (18-20')	soil	2007-08-20	00:00	2007-08-22
133924	SB-1 (28-30')	soil	2007-08-20	00:00	2007-08-22
133925	SB-1 (38-40')	soil	2007-08-20	00:00	2007-08-22
133926	SB-1 (48-50')	soil	2007-08-20	00:00	2007-08-22
133927	SB-1 (58-60')	soil	2007-08-20	00:00	2007-08-22
133928	SB-1 (68-70')	soil	2007-08-20	00:00	2007-08-22
133929	SB-1 (78-80')	soil	2007-08-20	00:00	2007-08-22
133930	SB-1 (88-90')	soil	2007-08-20	00:00	2007-08-22
133931	SB-2 (8-10')	soil	2007-08-20	00:00	2007-08-22
133932	SB-2 (18-20')	soil	2007-08-20	00:00	2007-08-22
133933	SB-2 (28-30')	soil	2007-08-20	00:00	2007-08-22
133934	SB-2 (38-40')	soil	2007-08-20	00:00	2007-08-22
133935	SB-2 (48-50')	soil	2007-08-20	00:00	2007-08-22
133936	SB-3 (8-10')	soil	2007-08-20	00:00	2007-08-22
133937	SB-3 (18-20')	soil	2007-08-20	00:00	2007-08-22
133938	SB-3 (28-30')	soil	2007-08-20	00:00	2007-08-22
133939	SB-3 (38-40')	soil	2007-08-20	00:00	2007-08-22
133940	SB-3 (48-50')	soil	2007-08-20	00:00	2007-08-22
133941	SB-4 (8-10')	soil	2007-08-21	00:00	2007-08-22
133942	SB-4 (18-20')	soil	2007-08-21	00:00	2007-08-22
133943	SB-4 (28-30')	soil	2007-08-21	00:00	2007-08-22
133944	SB-4 (38-40')	soil	2007-08-21	00:00	2007-08-22
133945	SB-4 (48-50')	soil	2007-08-21	00:00	2007-08-22
133946	SB-5 (8-10')	soil	2007-08-21	00:00	2007-08-22
133947	SB-5 (18-20')	soil	2007-08-21	00:00	2007-08-22
133948	SB-5 (28-30')	soil	2007-08-21	00:00	2007-08-22
133949	SB-5 (38-40')	soil	2007-08-21	00:00	2007-08-22
133950	SB-6 (8-10')	soil	2007-08-21	00:00	2007-08-22
133951	SB-6 (18-20')	soil	2007-08-21	00:00	2007-08-22
133952	SB-6 (28-30')	soil	2007-08-21	00:00	2007-08-22
133953	SB-6 (38-40')	soil	2007-08-21	00:00	2007-08-22
133954	SB-6 (48-50')	soil	2007-08-21	00:00	2007-08-22
133955	SB-5 (48-50')	soil	2007-08-21	00:00	2007-08-22

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

This is only a summary. Please, refer to the complete report package for quality control data.

Sample - Field Code	BTEX				TPH DRO	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
133920 - SB-1 (3-5')	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00
133921 - SB-1 (8-10')					<50.0	<1.00
133922 - SB-1 (13-15')					<50.0	<1.00

Sample: 133920 - SB-1 (3-5')

Param	Flag	Result	Units	RL
Chloride		19300	mg/Kg	2.00

Sample: 133921 - SB-1 (8-10')

Param	Flag	Result	Units	RL
Chloride		2880	mg/Kg	2.00

Sample: 133922 - SB-1 (13-15')

Param	Flag	Result	Units	RL
Chloride		3650	mg/Kg	2.00

Sample: 133923 - SB-1 (18-20')

Param	Flag	Result	Units	RL
Chloride		2800	mg/Kg	2.00

Sample: 133924 - SB-1 (28-30')

Param	Flag	Result	Units	RL
Chloride		13200	mg/Kg	2.00

Sample: 133925 - SB-1 (38-40')

Param	Flag	Result	Units	RL
Chloride		2720	mg/Kg	2.00

Sample: 133926 - SB-1 (48-50')

Param	Flag	Result	Units	RL
Chloride		10100	mg/Kg	2.00

Sample: 133927 - SB-1 (58-60')

Param	Flag	Result	Units	RL
Chloride		11100	mg/Kg	2.00

Sample: 133928 - SB-1 (68-70')

Param	Flag	Result	Units	RL
Chloride		2240	mg/Kg	2.00

Sample: 133929 - SB-1 (78-80')

Param	Flag	Result	Units	RL
Chloride		1530	mg/Kg	2.00

Sample: 133930 - SB-1 (88-90')

Param	Flag	Result	Units	RL
Chloride		1700	mg/Kg	2.00

Sample: 133931 - SB-2 (8-10')

Param	Flag	Result	Units	RL
Chloride		1400	mg/Kg	2.00

Sample: 133932 - SB-2 (18-20')

Param	Flag	Result	Units	RL
Chloride		1740	mg/Kg	2.00

Sample: 133933 - SB-2 (28-30')

Param	Flag	Result	Units	RL
Chloride		596	mg/Kg	2.00

Sample: 133934 - SB-2 (38-40')

Param	Flag	Result	Units	RL
Chloride		2830	mg/Kg	2.00

Sample: 133935 - SB-2 (48-50')

Param	Flag	Result	Units	RL
Chloride		2420	mg/Kg	2.00

Sample: 133936 - SB-3 (8-10')

Param	Flag	Result	Units	RL
Chloride		280	mg/Kg	2.00

Sample: 133937 - SB-3 (18-20')

Param	Flag	Result	Units	RL
Chloride		1770	mg/Kg	2.00

Sample: 133938 - SB-3 (28-30')

Param	Flag	Result	Units	RL
Chloride		129	mg/Kg	2.00

Sample: 133939 - SB-3 (38-40')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 133940 - SB-3 (48-50')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 133941 - SB-4 (8-10')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 133942 - SB-4 (18-20')

Param	Flag	Result	Units	RL
Chloride		1820	mg/Kg	2.00

Sample: 133943 - SB-4 (28-30')

Param	Flag	Result	Units	RL
Chloride		2950	mg/Kg	2.00

Sample: 133944 - SB-4 (38-40')

continued ...

sample 133944 continued ...

Param	Flag	Result	Units	RL
Param	Flag	Result	Units	RL
Chloride		5360	mg/Kg	2.00

Sample: 133945 - SB-4 (48-50')

Param	Flag	Result	Units	RL
Chloride		4040	mg/Kg	2.00

Sample: 133946 - SB-5 (8-10')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 133947 - SB-5 (18-20')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 133948 - SB-5 (28-30')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 133949 - SB-5 (38-40')

Param	Flag	Result	Units	RL
Chloride		499	mg/Kg	2.00

Sample: 133950 - SB-6 (8-10')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 133951 - SB-6 (18-20')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 133952 - SB-6 (28-30')

Report Date: August 29, 2007
3129

Work Order: 7082227
Celero-Track 1 Tank Battery

Page Number: 6 of 6
N/A

Param	Flag	Result	Units	RL
Chloride		138	mg/Kg	2.00

Sample: 133953 - SB-6 (38-40')

Param	Flag	Result	Units	RL
Chloride		406	mg/Kg	2.00

Sample: 133954 - SB-6 (48-50')

Param	Flag	Result	Units	RL
Chloride		459	mg/Kg	2.00

Sample: 133955 - SB-5 (48-50')

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Tim Reed
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: August 29, 2007

Work Order: 7082227



Project Location: N/A
Project Name: Celero-Track 1 Tank Battery
Project Number: 3129

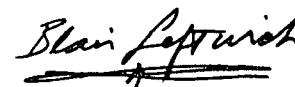
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
133920	SB-1 (3-5')	soil	2007-08-20	00:00	2007-08-22
133921	SB-1 (8-10')	soil	2007-08-20	00:00	2007-08-22
133922	SB-1 (13-15')	soil	2007-08-20	00:00	2007-08-22
133923	SB-1 (18-20')	soil	2007-08-20	00:00	2007-08-22
133924	SB-1 (28-30')	soil	2007-08-20	00:00	2007-08-22
133925	SB-1 (38-40')	soil	2007-08-20	00:00	2007-08-22
133926	SB-1 (48-50')	soil	2007-08-20	00:00	2007-08-22
133927	SB-1 (58-60')	soil	2007-08-20	00:00	2007-08-22
133928	SB-1 (68-70')	soil	2007-08-20	00:00	2007-08-22
133929	SB-1 (78-80')	soil	2007-08-20	00:00	2007-08-22
133930	SB-1 (88-90')	soil	2007-08-20	00:00	2007-08-22
133931	SB-2 (8-10')	soil	2007-08-20	00:00	2007-08-22
133932	SB-2 (18-20')	soil	2007-08-20	00:00	2007-08-22
133933	SB-2 (28-30')	soil	2007-08-20	00:00	2007-08-22
133934	SB-2 (38-40')	soil	2007-08-20	00:00	2007-08-22
133935	SB-2 (48-50')	soil	2007-08-20	00:00	2007-08-22
133936	SB-3 (8-10')	soil	2007-08-20	00:00	2007-08-22
133937	SB-3 (18-20')	soil	2007-08-20	00:00	2007-08-22
133938	SB-3 (28-30')	soil	2007-08-20	00:00	2007-08-22
133939	SB-3 (38-40')	soil	2007-08-20	00:00	2007-08-22
133940	SB-3 (48-50')	soil	2007-08-20	00:00	2007-08-22
133941	SB-4 (8-10')	soil	2007-08-21	00:00	2007-08-22
133942	SB-4 (18-20')	soil	2007-08-21	00:00	2007-08-22

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
133943	SB-4 (28-30')	soil	2007-08-21	00:00	2007-08-22
133944	SB-4 (38-40')	soil	2007-08-21	00:00	2007-08-22
133945	SB-4 (48-50')	soil	2007-08-21	00:00	2007-08-22
133946	SB-5 (8-10')	soil	2007-08-21	00:00	2007-08-22
133947	SB-5 (18-20')	soil	2007-08-21	00:00	2007-08-22
133948	SB-5 (28-30')	soil	2007-08-21	00:00	2007-08-22
133949	SB-5 (38-40')	soil	2007-08-21	00:00	2007-08-22
133950	SB-6 (8-10')	soil	2007-08-21	00:00	2007-08-22
133951	SB-6 (18-20')	soil	2007-08-21	00:00	2007-08-22
133952	SB-6 (28-30')	soil	2007-08-21	00:00	2007-08-22
133953	SB-6 (38-40')	soil	2007-08-21	00:00	2007-08-22
133954	SB-6 (48-50')	soil	2007-08-21	00:00	2007-08-22
133955	SB-5 (48-50')	soil	2007-08-21	00:00	2007-08-22

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

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Celero-Track 1 Tank Battery were received by TraceAnalysis, Inc. on 2007-08-22 and assigned to work order 7082227. Samples for work order 7082227 were received intact at a temperature of 2.9 deg C.

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

Test	Method
BTEX	S 8021B
Chloride (Titration)	SM 4500-Cl B
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7082227 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 133920 - SB-1 (3-5')

Analysis: BTEX
QC Batch: 40496
Prep Batch: 35014

Analytical Method: S 8021B
Date Analyzed: 2007-08-24
Sample Preparation: 2007-08-24

Prep Method: S 5035
Analyzed By:
Prepared By:

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.974	mg/Kg	1	1.00	97	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	47.3 - 144.2

Sample: 133920 - SB-1 (3-5')

Analysis: Chloride (Titration)
QC Batch: 40451
Prep Batch: 34995

Analytical Method: SM 4500-Cl B
Date Analyzed: 2007-08-24
Sample Preparation:

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		19300	mg/Kg	50	2.00

Sample: 133920 - SB-1 (3-5')

Analysis: TPH DRO
QC Batch: 40364
Prep Batch: 34915

Analytical Method: Mod. 8015B
Date Analyzed: 2007-08-23
Sample Preparation: 2007-08-23

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	1	256	mg/Kg	1	150	171	17.3 - 169.6

Sample: 133920 - SB-1 (3-5')

Analysis: TPH GRO
QC Batch: 40540
Prep Batch: 35014

Analytical Method: S 8015B
Date Analyzed: 2007-08-24
Sample Preparation: 2007-08-24

Prep Method: S 5035
Analyzed By:
Prepared By:

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	²	1.01	mg/Kg	1	1.00	101	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	50.8 - 131.6

Sample: 133921 - SB-1 (8-10')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 40451 Date Analyzed: 2007-08-24 Analyzed By: AR
Prep Batch: 34995 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2880	mg/Kg	50	2.00

Sample: 133921 - SB-1 (8-10')

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 40364 Date Analyzed: 2007-08-23 Analyzed By:
Prep Batch: 34915 Sample Preparation: 2007-08-23 Prepared By:

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		199	mg/Kg	1	150	133	17.3 - 169.6

Sample: 133921 - SB-1 (8-10')

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 40540 Date Analyzed: 2007-08-24 Analyzed By:
Prep Batch: 35014 Sample Preparation: 2007-08-24 Prepared By:

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	³	0.990	mg/Kg	1	1.00	99	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	50.8 - 131.6

²High surrogate recovery due to peak interference.

³High surrogate recovery due to peak interference.

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Sample: 133922 - SB-1 (13-15')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40451	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34995	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3650	mg/Kg	50	2.00

Sample: 133922 - SB-1 (13-15')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40364	Date Analyzed:	2007-08-23	Analyzed By:	
Prep Batch:	34915	Sample Preparation:	2007-08-23	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		228	mg/Kg	1	150	152	17.3 - 169.6

Sample: 133922 - SB-1 (13-15')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.802	mg/Kg	1	1.00	80	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	50.8 - 131.6

Sample: 133923 - SB-1 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2800	mg/Kg	50	2.00

Sample: 133924 - SB-1 (28-30')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		13200	mg/Kg	50	2.00

Sample: 133925 - SB-1 (38-40')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2720	mg/Kg	50	2.00

Sample: 133926 - SB-1 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10100	mg/Kg	50	2.00

Sample: 133927 - SB-1 (58-60')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		11100	mg/Kg	50	2.00

Sample: 133928 - SB-1 (68-70')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

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sample 133928 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2240	mg/Kg	50	2.00

Sample: 133929 - SB-1 (78-80')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1530	mg/Kg	50	2.00

Sample: 133930 - SB-1 (88-90')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1700	mg/Kg	50	2.00

Sample: 133931 - SB-2 (8-10')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1400	mg/Kg	50	2.00

Sample: 133932 - SB-2 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40452	Date Analyzed:	2007-08-24	Analyzed By:	AR
Prep Batch:	34996	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1740	mg/Kg	50	2.00

Sample: 133933 - SB-2 (28-30')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40530	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35066	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		596	mg/Kg	50	2.00

Sample: 133934 - SB-2 (38-40')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40530	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35066	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2830	mg/Kg	50	2.00

Sample: 133935 - SB-2 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40530	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35066	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2420	mg/Kg	50	2.00

Sample: 133936 - SB-3 (8-10')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40530	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35066	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		280	mg/Kg	50	2.00

Sample: 133937 - SB-3 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40560	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35084	Sample Preparation:		Prepared By:	AR

continued ...

sample 133937 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1770	mg/Kg	50	2.00

Sample: 133938 - SB-3 (28-30')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 40560 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35084 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		129	mg/Kg	50	2.00

Sample: 133939 - SB-3 (38-40')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 40560 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35084 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 133940 - SB-3 (48-50')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 40560 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35084 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 133941 - SB-4 (8-10')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 40560 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35084 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 133942 - SB-4 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40560	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35084	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1820	mg/Kg	50	2.00

Sample: 133943 - SB-4 (28-30')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40560	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35084	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2950	mg/Kg	50	2.00

Sample: 133944 - SB-4 (38-40')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40560	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35084	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5360	mg/Kg	50	2.00

Sample: 133945 - SB-4 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40560	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35084	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4040	mg/Kg	50	2.00

Sample: 133946 - SB-5 (8-10')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40560	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35084	Sample Preparation:		Prepared By:	AR

continued ...

sample 133946 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 133947 - SB-5 (18-20')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 40562 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35085 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 133948 - SB-5 (28-30')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 40562 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35085 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 133949 - SB-5 (38-40')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 40562 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35085 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		499	mg/Kg	50	2.00

Sample: 133950 - SB-6 (8-10')

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 40562 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35085 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 133951 - SB-6 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40562	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35085	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 133952 - SB-6 (28-30')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40562	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35085	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		138	mg/Kg	50	2.00

Sample: 133953 - SB-6 (38-40')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40562	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35085	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		406	mg/Kg	50	2.00

Sample: 133954 - SB-6 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40562	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35085	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		459	mg/Kg	50	2.00

Sample: 133955 - SB-5 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40562	Date Analyzed:	2007-08-28	Analyzed By:	AR
Prep Batch:	35085	Sample Preparation:		Prepared By:	AR

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sample 133955 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Method Blank (1) QC Batch: 40364

QC Batch: 40364
Prep Batch: 34915

Date Analyzed: 2007-08-23
QC Preparation: 2007-08-23

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		196	mg/Kg	1	150	131	32.9 - 156.1

Method Blank (1) QC Batch: 40451

QC Batch: 40451
Prep Batch: 34995

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 40452

QC Batch: 40452
Prep Batch: 34996

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 40496

QC Batch: 40496
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.933	mg/Kg	1	1.00	93	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.993	mg/Kg	1	1.00	99	53.1 - 111.6

Method Blank (1) QC Batch: 40530

QC Batch: 40530 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35066 QC Preparation: 2007-08-28 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 40540

QC Batch: 40540 Date Analyzed: 2007-08-24 Analyzed By:
Prep Batch: 35014 QC Preparation: 2007-08-24 Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.965	mg/Kg	1	1.00	96	55.4 - 111.8

Method Blank (1) QC Batch: 40560

QC Batch: 40560 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35084 QC Preparation: 2007-08-28 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 40562

QC Batch: 40562 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35085 QC Preparation: 2007-08-28 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Laboratory Control Spike (LCS-1)

QC Batch: 40364
Prep Batch: 34915

Date Analyzed: 2007-08-23
QC Preparation: 2007-08-23

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	188	mg/Kg	1	250	<13.4	75	49.1 - 142.3

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	213	mg/Kg	1	250	<13.4	85	49.1 - 142.3	12	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	181	159	mg/Kg	1	150	121	106	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40451
Prep Batch: 34995

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.6	mg/Kg	1	100	<0.500	100	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<0.500	100	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 40452
Prep Batch: 34996

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.8	mg/Kg	1	100	<0.500	97	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	97.2	mg/Kg	1	100	<0.500	97	85 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 40496
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.943	mg/Kg	1	1.00	<0.00110	94	71.2 - 119
Toluene	0.987	mg/Kg	1	1.00	<0.00150	99	76.3 - 116.5
Ethylbenzene	0.988	mg/Kg	1	1.00	<0.00160	99	77.6 - 114
Xylene	2.93	mg/Kg	1	3.00	<0.00410	98	78.8 - 113.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.957	mg/Kg	1	1.00	<0.00110	96	71.2 - 119	2	20
Toluene	1.00	mg/Kg	1	1.00	<0.00150	100	76.3 - 116.5	1	20
Ethylbenzene	0.990	mg/Kg	1	1.00	<0.00160	99	77.6 - 114	0	20
Xylene	2.99	mg/Kg	1	3.00	<0.00410	100	78.8 - 113.9	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.909	0.898	mg/Kg	1	1.00	91	90	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.945	0.956	mg/Kg	1	1.00	94	96	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 40530
Prep Batch: 35066

Date Analyzed: 2007-08-28
QC Preparation: 2007-08-28

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	100	mg/Kg	1	100	<0.500	100	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	101	mg/Kg	1	100	<0.500	101	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 40540
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.21	mg/Kg	1	10.0	<0.739	82	56 - 105.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.12	mg/Kg	1	10.0	<0.739	91	56 - 105.2	10	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.970	0.970	mg/Kg	1	1.00	97	97	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.990	0.993	mg/Kg	1	1.00	99	99	67.2 - 119.2

Laboratory Control Spike (LCS-1)

QC Batch: 40560
Prep Batch: 35084

Date Analyzed: 2007-08-28
QC Preparation: 2007-08-28

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.1	mg/Kg	1	100	<0.500	97	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	98.0	mg/Kg	1	100	<0.500	98	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 40562
Prep Batch: 35085

Date Analyzed: 2007-08-28
QC Preparation: 2007-08-28

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.4	mg/Kg	1	100	<0.500	99	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<0.500	100	85 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 133920

QC Batch: 40364
Prep Batch: 34915

Date Analyzed: 2007-08-23
QC Preparation: 2007-08-23

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	254	mg/Kg	1	250	<13.4	102	30.2 - 201.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	⁴ 183	mg/Kg	1	250	<13.4	73	30.2 - 201.4	32	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	243	215	mg/Kg	1	150	162	143	10 - 194

Matrix Spike (MS-1) Spiked Sample: 133922

QC Batch: 40451
Prep Batch: 34995

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	8360	mg/Kg	50	5000	3652.48	94	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	8400	mg/Kg	50	5000	3652.48	95	85 - 115	0	20

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

Matrix Spike (MS-1) Spiked Sample: 133932

QC Batch: 40452
Prep Batch: 34996

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	6650	mg/Kg	50	5000	1738.74	98	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	6700	mg/Kg	50	5000	1738.74	99	85 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 133920

QC Batch: 40496
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

⁴RPD is out of control due to the extraction process. Use LCS/LCSD to demonstrate that the method is under control. •

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.884	mg/Kg	1	1.00	<0.00110	88	65.7 - 119.1
Toluene	0.916	mg/Kg	1	1.00	<0.00150	92	47.7 - 153.8
Ethylbenzene	0.944	mg/Kg	1	1.00	<0.00160	94	73.5 - 126.3
Xylene	2.82	mg/Kg	1	3.00	<0.00410	94	73.6 - 125.9

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.946	mg/Kg	1	1.00	<0.00110	95	65.7 - 119.1	7	20
Toluene	0.968	mg/Kg	1	1.00	<0.00150	97	47.7 - 153.8	6	20
Ethylbenzene	0.962	mg/Kg	1	1.00	<0.00160	96	73.5 - 126.3	2	20
Xylene	2.85	mg/Kg	1	3.00	<0.00410	95	73.6 - 125.9	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.946	0.892	mg/Kg	1	1	95	89	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.03	0.912	mg/Kg	1	1	103	91	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 133936

QC Batch: 40530
Prep Batch: 35066

Date Analyzed: 2007-08-28
QC Preparation: 2007-08-28

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5130	mg/Kg	50	5000	280.036	97	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	5170	mg/Kg	50	5000	280.036	98	85 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 134125

QC Batch: 40540
Prep Batch: 35014

Date Analyzed: 2007-08-24
QC Preparation: 2007-08-24

Analyzed By:
Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.22	mg/Kg	1	10.0	<0.739	77	10 - 102.2

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	6.85	mg/Kg	1	10.0	<0.739	63	10 - 102.2	18	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.791	0.747	mg/Kg	1	1	79	75	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.04	1.03	mg/Kg	1	1	104	103	58 - 162.6

Matrix Spike (MS-1) Spiked Sample: 133946

QC Batch: 40560 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35084 QC Preparation: 2007-08-28 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5150	mg/Kg	50	5000	<25.0	103	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	5190	mg/Kg	50	5000	<25.0	104	85 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 133976

QC Batch: 40562 Date Analyzed: 2007-08-28 Analyzed By: AR
Prep Batch: 35085 QC Preparation: 2007-08-28 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	7770	mg/Kg	50	5000	2835.49	99	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	7810	mg/Kg	50	5000	2835.49	99	85 - 115	0	20

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

Standard (ICV-1)

QC Batch: 40364 Date Analyzed: 2007-08-23 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	227	91	85 - 115	2007-08-23

Standard (CCV-1)

QC Batch: 40364 Date Analyzed: 2007-08-23 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	236	94	85 - 115	2007-08-23

Standard (ICV-1)

QC Batch: 40451

Date Analyzed: 2007-08-24

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2007-08-24

Standard (CCV-1)

QC Batch: 40451

Date Analyzed: 2007-08-24

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2007-08-24

Standard (ICV-1)

QC Batch: 40452

Date Analyzed: 2007-08-24

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2007-08-24

Standard (CCV-1)

QC Batch: 40452

Date Analyzed: 2007-08-24

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.1	98	85 - 115	2007-08-24

Standard (ICV-1)

QC Batch: 40496

Date Analyzed: 2007-08-24

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	85 - 115	2007-08-24
Toluene		mg/Kg	0.100	0.108	108	85 - 115	2007-08-24
Ethylbenzene		mg/Kg	0.100	0.107	107	85 - 115	2007-08-24

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standard continued ...

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Xylene		mg/Kg	0.300	0.320	107	85 - 115	2007-08-24

Standard (CCV-1)

QC Batch: 40496

Date Analyzed: 2007-08-24

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0967	97	85 - 115	2007-08-24
Toluene		mg/Kg	0.100	0.104	104	85 - 115	2007-08-24
Ethylbenzene		mg/Kg	0.100	0.0967	97	85 - 115	2007-08-24
Xylene		mg/Kg	0.300	0.290	97	85 - 115	2007-08-24

Standard (ICV-1)

QC Batch: 40530

Date Analyzed: 2007-08-28

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.6	98	85 - 115	2007-08-28

Standard (CCV-1)

QC Batch: 40530

Date Analyzed: 2007-08-28

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2007-08-28

Standard (ICV-1)

QC Batch: 40540

Date Analyzed: 2007-08-24

Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2007-08-24

Standard (CCV-1)

QC Batch: 40540

Date Analyzed: 2007-08-24

Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.954	95	85 - 115	2007-08-24

Standard (ICV-1)

QC Batch: 40560

Date Analyzed: 2007-08-28

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2007-08-28

Standard (CCV-1)

QC Batch: 40560

Date Analyzed: 2007-08-28

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.9	99	85 - 115	2007-08-28

Standard (ICV-1)

QC Batch: 40562

Date Analyzed: 2007-08-28

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.8	99	85 - 115	2007-08-28

Standard (CCV-1)

QC Batch: 40562

Date Analyzed: 2007-08-28

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2007-08-28

OF: h

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

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CLIENT NAME:		PROJECT NAME:		SITE MANAGER:		PRESERVATIVE METHOD		NUMBER OF CONTAINERS		FILTERED (Y/N)		HCL		HNOS		ICE		NONE	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	PROJECT NO.:	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO
133930	08/20/07		S	✓	SB-1 (88-90')														
931	08/20/07		S	✓	SB-2 (8-10')														
932	08/20/07		S	✓	SB-2 (18-20')														
933	08/20/07		S	✓	SB-2 (28-30')														
934	08/20/07		S	✓	SB-2 (38-40')														
935	08/20/07		S	✓	SB-2 (48-50')														
936	08/20/07		S	✓	SB-3 (8-10')														
937	08/20/07		S	✓	SB-3 (18-20')														
938	08/20/07		S	✓	SB-3 (28-30')														
939	08/20/07		S	✓	SB-3 (38-40')														

CLIENT NAME:		PROJECT NAME:		SITE MANAGER:		PRESERVATIVE METHOD		NUMBER OF CONTAINERS		FILTERED (Y/N)		HCL		HNOS		ICE		NONE	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	PROJECT NO.:	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO
133930	08/20/07		S	✓	SB-1 (88-90')														
931	08/20/07		S	✓	SB-2 (8-10')														
932	08/20/07		S	✓	SB-2 (18-20')														
933	08/20/07		S	✓	SB-2 (28-30')														
934	08/20/07		S	✓	SB-2 (38-40')														
935	08/20/07		S	✓	SB-2 (48-50')														
936	08/20/07		S	✓	SB-3 (8-10')														
937	08/20/07		S	✓	SB-3 (18-20')														
938	08/20/07		S	✓	SB-3 (28-30')														
939	08/20/07		S	✓	SB-3 (38-40')														

CLIENT NAME:		PROJECT NAME:		SITE MANAGER:		PRESERVATIVE METHOD		NUMBER OF CONTAINERS		FILTERED (Y/N)		HCL		HNOS		ICE		NONE	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	PROJECT NO.:	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO	CELERO
133930	08/20/07		S	✓	SB-1 (88-90')														
931	08/20/07		S	✓	SB-2 (8-10')														
932	08/20/07		S	✓	SB-2 (18-20')														
933	08/20/07		S	✓	SB-2 (28-30')														
934	08/20/07		S	✓	SB-2 (38-40')														
935	08/20/07		S	✓	SB-2 (48-50')														
936	08/20/07		S	✓	SB-3 (8-10')														
937	08/20/07		S	✓	SB-3 (18-20')														
938	08/20/07		S	✓	SB-3 (28-30')														
939	08/20/07		S	✓	SB-3 (38-40')		</												

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[illegible]

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME:		PROJECT NAME:		SITE MANAGER:		PRESERVATIVE METHOD				NUMBER OF CONTAINERS		FILTERED (Y/N)		HCL		HNO3		ICE		NONE	
PROJECT NO.:		DATE		TIME		MATRIX		COMP.		GRAB		SAMPLE IDENTIFICATION		LAB I.D. NUMBER		LAB I.D. NUMBER		LAB I.D. NUMBER		LAB I.D. NUMBER	
Celero		3129		08/22/07		S		✓		S		SB-3 (48-50')		1		✓		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (8-10')		1		✓		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (18-20')		1		✓		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (28-30')		1		✓		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (38-40')		1		✓		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (48-50')		1		✓		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-5 (8-10')		1		✓		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-5 (18-20')		1		✓		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-5 (28-30')		1		✓		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-5 (38-40')		1		✓		✓		✓	

RELINQUISHED BY: (Signature)		Date: 08/22/07		Time: 3:00		RECEIVED BY: (Signature)		Date: 08/22/07		Time: 3:00	
RELINQUISHED BY: (Signature)		Date: _____		Time: _____		RECEIVED BY: (Signature)		Date: _____		Time: _____	
RELINQUISHED BY: (Signature)		Date: _____		Time: _____		RECEIVED BY: (Signature)		Date: _____		Time: _____	
RELINQUISHED BY: (Signature)		Date: _____		Time: _____		RECEIVED BY: (Signature)		Date: _____		Time: _____	
RECEIVING LABORATORY: Ice Analysis		Date: _____		Time: _____		RECEIVED BY: (Signature)		Date: _____		Time: _____	
ADDRESS: _____		City: _____		State: TX		ZIP: _____		DATE: 8/22/07		TIME: 15:00	
CONTACT: _____		PHONE: _____		FAX: _____		DATE: _____		TIME: _____		REMARKS:	

CLIENT NAME:		PROJECT NAME:		SITE MANAGER:		PRESERVATIVE METHOD		NUMBER OF CONTAINERS		FILTERED (Y/N)		HCL		HNO3		ICE		NONE	
Celero		3129		08/22/07		S		✓		S		SB-3 (48-50')		1		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (8-10')		1		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (18-20')		1		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (28-30')		1		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (38-40')		1		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-4 (48-50')		1		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-5 (8-10')		1		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-5 (18-20')		1		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-5 (28-30')		1		✓		✓	
Celero		3129		08/22/07		S		✓		S		SB-5 (38-40')		1		✓		✓	

RELINQUISHED BY: (Signature)		Date: 08/22/07		Time: 3:00		RECEIVED BY: (Signature)		Date: 08/22/07		Time: 3:00	
RELINQUISHED BY: (Signature)		Date: _____		Time: _____		RECEIVED BY: (Signature)		Date: _____		Time: _____	
RELINQUISHED BY: (Signature)		Date: _____		Time: _____		RECEIVED BY: (Signature)		Date: _____		Time: _____	
RELINQUISHED BY: (Signature)		Date: _____		Time: _____		RECEIVED BY: (Signature)		Date: _____		Time: _____	
RECEIVING LABORATORY: Ice Analysis		Date: _____		Time: _____		RECEIVED BY: (Signature)		Date: _____		Time: _____	
ADDRESS: _____		City: _____		State: TX		ZIP: _____		DATE: 8/22/07		TIME: 15:00	
CONTACT: _____		PHONE: _____		FAX: _____		DATE: _____		TIME: _____		REMARKS:	

CLIENT NAME:		PROJECT NAME:		SITE MANAGER:		PRESERVATIVE METHOD		NUMBER OF CONTAINERS		FILTERED (Y/N)		HCL		HNO3		ICE		NONE	
Celero		3129		08/22/07		S		✓		S		SB-3							

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