1RP-1662

Assessment and Closure Report

DATE:
Oct. 2009

TETRA TECH

October 12, 2009

Mr. Glenn von Gonten
Senior Hydrologist/Acting Environmental Bureau Chief
Environmental Bureau
Oil Conservation Division
Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Assessment and Closure Report for the Pit Located at the Drickey Queen Unit Saltwater Plant # 3, Unit Letter H, Section 16, Township 14 South, Range 31 East, Chaves County, New Mexico, Operated by Celero Energy II, LP (NMOCD 1RP#1662)

Dear Mr. von Gonten:

Tetra Tech was contacted by Celero Energy (Celero) to assist in the closure of a pit at the Drickey Queen Unit Saltwater Plant # 3, located in Unit Letter H, Section 16, Township 14 South, Range 31 East, Chaves County, New Mexico (Site). The pit coordinates are N 33.10630° W 103.81912°. Both the State of New Mexico C-141 and C-144 (Initial and Final) are shown in Appendix E. The Site is shown on Figures 1 and 2.

Background

On October 11, 2007, Highlander submitted an Investigation and Characterization work plan for an open pit at this site. The ICP was approved by the New Mexico Oil Conservation Division (NMOCD).

The Drickey Queen Unit Saltwater Plant # 3 pit was dewatered and the residual sludge and tank bottom materials were removed in September 2007. Removed fluids were placed into an existing SWD system or taken to disposal, while the sludge and tank bottom materials were disposed of at the Gandy-Marley, Inc. landfill site in Lovington, New Mexico. Upon completion of the removal of the fluids and sludge, the underlying soils were visually inspected for obvious signs of impact. Approximately 1,400 cubic yards of soil were excavated and transported to Gandy-Marley, Inc for disposal. The pit was excavated to a point where the subsoil would support a soil boring rig.

Tetra Tech
1910 North Big Spring, Midland,TX 79705
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

Groundwater and Regulatory

Neither the New Mexico State Engineer's Office database nor the USGS database show any wells in Section 16, Township 14 South, Range 31 East. The New Mexico State Engineer's Office database does show wells in Sections 23 and 34, Township 14S, Range 31E, with reported depths to water from 260 feet to 275 feet. This site is located west of Mescalero Ridge, and any groundwater would be derived from the Triassic Dockum or Quaternary Alluvium. See Appendix A for NM State Engineer's database report.

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.

Assessment and Results

On October 29, 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 excavation measured approximately 57 feet by 69 feet. One soil boring (SB-1) was installed in the center of the pit. The remaining boreholes (SB-2 through SB-5) were installed outside the edges of the pit. The boring locations and the approximate edge of the pit are shown on Figure 3.

The borings were installed using an air-rotary type drilling rig. Soil samples from soil boring SB-1 were collected at 5 foot intervals to 20 feet and then 10 foot intervals thereafter during drilling operations. The samples were field screened for hydrocarbons with a PID, and field screened for chlorides. Soil samples from the remaining soil borings were collected at 10 foot intervals to depths up to 50 feet below ground surface (bgs).

The soil samples were field screened for chlorides to determine if impacts showed a distinctive decline with depth. Select soil samples were analyzed for Total Petroleum Hydrocarbons (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 B.

All down hole equipment was washed between boreholes or sampling events using a 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 the surface.

Referring to Table 1, the samples selected for TPH and BTEX analysis were all below the reporting limits. Chloride impact was found throughout SB-1. Horizontal chloride impact was defined inside the perimeter boreholes.

Soil Capping

During the week of December 22, 2007, Gandy-Marley Corporation of Lovington, New Mexico was onsite to install a one foot thick clay liner for the pit. The pit area was further extended out approximately 25 feet north and west, and 30 feet south of the original dimensions based upon the results of the borehole samples. See Figure 3 for pit liner dimensions. The soils were excavated to a depth of 4 feet bgs. The soils excavated soils were placed back into the center of the original excavation in order to bring the excavation up to a depth of 4 feet bgs. Upon completion of the clay liner, overburden material stripped from the expansion of the pit was utilized as backfill for the site and brought up to grade. A copy of the sieve analysis/permeability data for the clay is included in Appendix C.

Monitor Well Installation

On May 30, 2007, Tetra Tech was onsite to oversee the installation of temporary monitor well TMW-1, which was installed southeast of the pit. The monitor well was drilled to a depth of 100 feet and installed with 50 feet of 0.02" slotted screen at the bottom and 55 feet of schedule 40 blank PVC at the top of the boring. No groundwater was encountered during drilling of the monitor well. On July 30, 2008, Tetra Tech was onsite to gauge, develop, and sample temporary monitor well TMW-1. Approximately 10 gallons of water were removed from the well and stored in an onsite 55-gallon drum. Once the well stabilized, a sample was collected and submitted to Trace Analysis, Inc. of Midland, Texas for analysis of chlorides using EPA method E 300.0. Temporary Monitor well TMW-1 had analytical results of 64,500 mg/L chlorides. The results of the sampling are shown in Table 2. A copy of the laboratory reports and

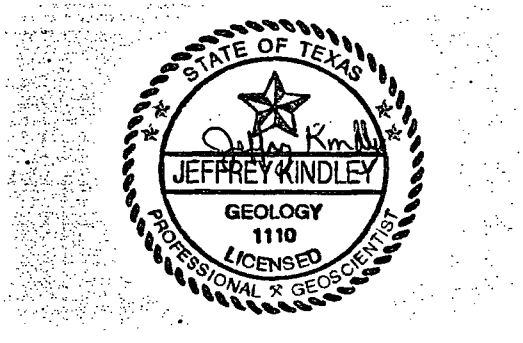
chain-of-custody are included in Appendix B, while the boring log is included in Appendix D.

Since the sampled water is believed to be perched water, and based on the results of the sampling, Tetra Tech plugged the temporary monitor well and proposes to reinstall a permanent monitor well east to southeast of the pit. Based on the findings of the new monitor well, additional monitor wells may be required to complete delineation of the groundwater.

Conclusions

Between October and December 2007, the pit area was excavated to dimensions of 95 feet by 115 feet. Approximately 1,400 cubic yards of soil were excavated and transported offsite for disposal at Gandy-Marley of Lovington, New Mexico. A clay liner was placed at 4 feet bgs in the excavation in order to impede the remaining chlorides at the site from migrating to the underlying groundwater. Upon completion of the clay liner, the site was backfilled with overburden material and brought up to surface grade.

Based upon the results of the pit closure work performed at the site, Celero Energy requests consideration of this pit for closure. If you require any additional information or have any questions or comments concerning the assessment/closure report, please call at (432) 682-4559.



Respectfully submitted,

Tetra Tech

Jeffrey Kindley, P.G.

Senior Environmental Geologist

cc: Bruce Woodard – Celero Energy II LP

Larry Johnson – NMOCD – Hobbs, New Mexico

FIGURES

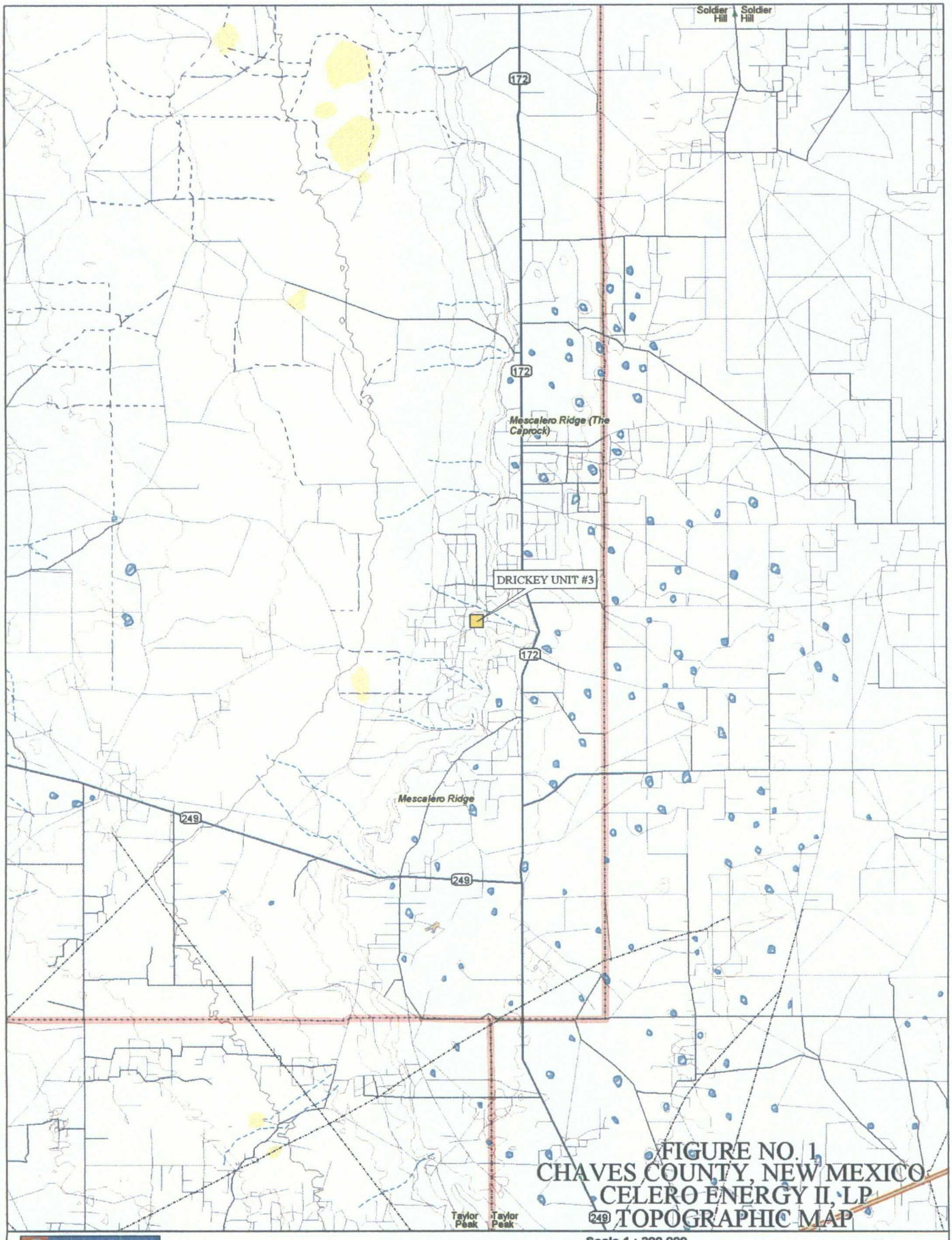


FIGURE NO. 1
CHAVES COUNTY, NEW MEXICO
CELERO ENERGY II, LP
TOPOGRAPHIC MAP

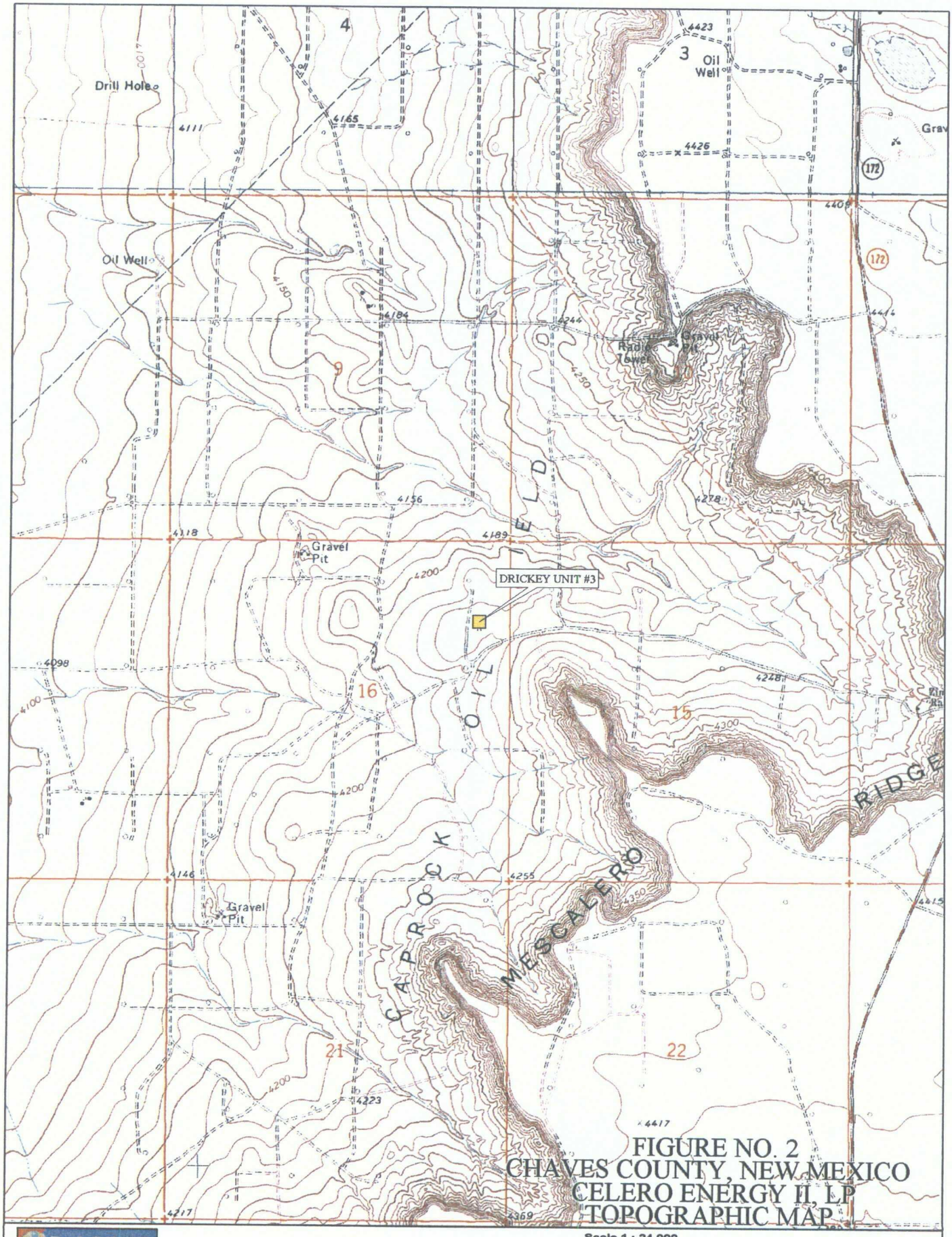
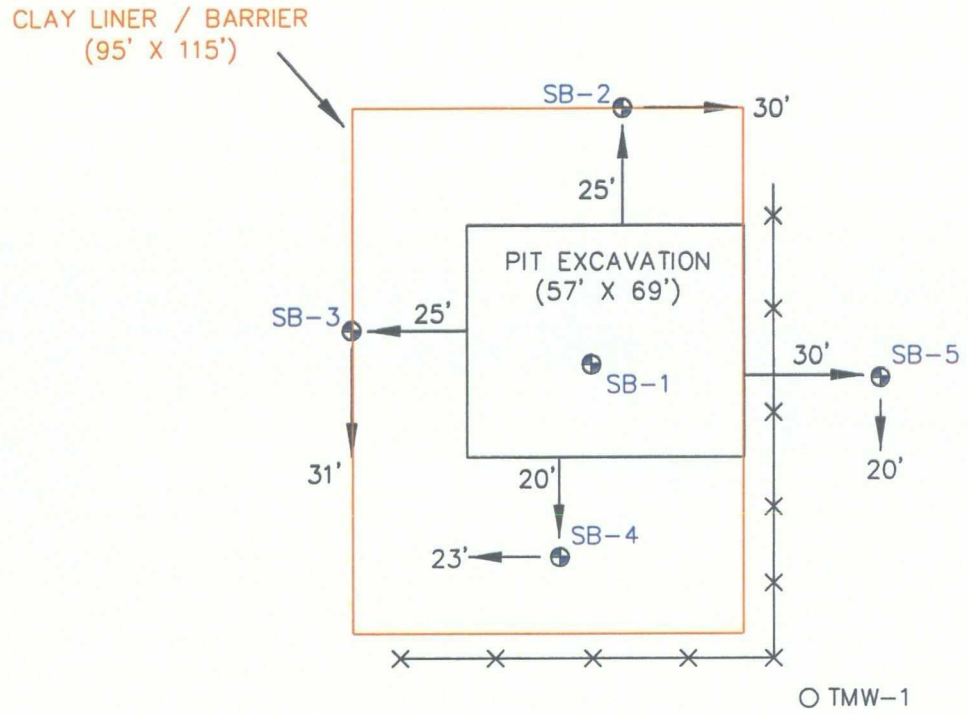


FIGURE NO. 2
CHAVES COUNTY, NEW MEXICO
CELERO ENERGY II, LP
TOPOGRAPHIC MAP

Scale 1 : 24,000
1" = 2000 ft

TN
MN
9.0°E



NOT TO SCALE

FIGURE NO. 3

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
DRICKEY QUEEN UNIT SALTWATER PLANT #3
SOIL BORING / CLAY LINER LOCATIONS

TETRA TECH
MIDLAND, TEXAS

DATE: 11/5/07
DWN. BY: RC
FILE: C:\CELERO\3136\ D G UNIT #3

TABLES

Table 1
Celero Energy
Drickey Queen Unit 3
Chaves County, New Mexico

Sample ID	Date Sampled	Excavation Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			DRO	GRO	Total					
SB-1	10/29/2007	(3-5')	<50.0	<1.00	<50.00	<0.0100	<0.0100	<0.0100	<0.0100	**1150**
	10/29/2007	(8-10')	-	-	-	-	-	-	-	**1680**
	10/29/2007	(13-15')	-	-	-	-	-	-	-	**948**
	10/29/2007	(18-20')	-	-	-	-	-	-	-	**1330**
	10/29/2007	(28-30')	-	-	-	-	-	-	-	**2350**
	10/29/2007	(38-40')	-	-	-	-	-	-	-	**5780**
	10/29/2007	(48-50')	-	-	-	-	-	-	-	**7290**
	10/29/2007	(58-60')	-	-	-	-	-	-	-	**6310**
	10/29/2007	(68-70')	-	-	-	-	-	-	-	**2140**
	10/29/2007	(78-80')	-	-	-	-	-	-	-	**1270**
SB-2	10/29/2007	(8-10')	-	-	-	-	-	-	-	**155**
	10/29/2007	(18-20')	-	-	-	-	-	-	-	**1960**
	10/29/2007	(28-30')	-	-	-	-	-	-	-	**2410**
	10/29/2007	(38-40')	-	-	-	-	-	-	-	**1100**
	10/29/2007	(48-50')	-	-	-	-	-	-	-	**1190**
SB-3	10/29/2007	(8-10')	-	-	-	-	-	-	-	**184**
	10/29/2007	(18-20')	-	-	-	-	-	-	-	**533**
	10/29/2007	(28-30')	-	-	-	-	-	-	-	**931**
	10/29/2007	(38-40')	-	-	-	-	-	-	-	**110**
	10/29/2007	(48-50')	-	-	-	-	-	-	-	<100
SB-4	10/29/2007	(8-10')	-	-	-	-	-	-	-	<100
	10/29/2007	(18-20')	-	-	-	-	-	-	-	**876**
	10/29/2007	(28-30')	-	-	-	-	-	-	-	**3910**
	10/29/2007	(38-40')	-	-	-	-	-	-	-	**728**
	10/29/2007	(48-50')	-	-	-	-	-	-	-	<100
SB-5	10/29/2007	(8-10')	-	-	-	-	-	-	-	<100
	10/29/2007	(18-20')	-	-	-	-	-	-	-	**263**
	10/29/2007	(28-30')	-	-	-	-	-	-	-	**345**
	10/29/2007	(38-40')	-	-	-	-	-	-	-	**571**
	10/29/2007	(48-50')	-	-	-	-	-	-	-	**486**

(-) Not Analyzed

Table 2
Celero Energy
Drickey Queen Unit 3
Chaves County, New Mexico

Sample ID	Date Sampled	Chloride (mg/kg)
TMW-1	07/31/08	<50.0

(-) Not Analyzed

APPENDIX A
GROUNDWATER DATA

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 14S Range: 31E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○Non-Domestic ○Domestic ◉All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 10/11/2007

								(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
L	14S	31E	23				2	275	275	275
L	14S	31E	34				2	260	260	260

Record Count: 4

APPENDIX B
LABORATORY ANALYTICAL

TRACEANALYSIS, INC.

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

NELAP Certifications

Lubbock T104704219-08-TX LELAP-02003 El Paso T104704221-08-TX LELAP-02002 Midland T104704392-08-TX

Analytical and Quality Control Report

Ike Tavarez
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: August 5, 2008

Work Order: 8080109

Project Name: Celero-Dricky Queen Saltwater Plant #3
Project Number: 3136

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
169222	TMW-1	water	2008-07-31	13:30	2008-08-01

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.

Michael Abel

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-Dricky Queen Saltwater Plant #3 were received by TraceAnalysis, Inc. on 2008-08-01 and assigned to work order 8080109. Samples for work order 8080109 were received intact at a temperature of 3.4 deg. C.

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

Test	Method
Chloride (IC)	E 300.0

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 8080109 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: 169222 - TMW-1

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	51103	Date Analyzed:	2008-08-05	Analyzed By:	AR
Prep Batch:	43811	Sample Preparation:	2008-08-04	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**64500**	mg/L	5000	0.500

Method Blank (1) QC Batch: 51103

QC Batch:	51103	Date Analyzed:	2008-08-05	Analyzed By:	AR
Prep Batch:	43811	QC Preparation:	2008-08-04	Prepared By:	AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5

Laboratory Control Spike (LCS-1)

QC Batch:	51103	Date Analyzed:	2008-08-05	Analyzed By:	AR
Prep Batch:	43811	QC Preparation:	2008-08-04	Prepared By:	AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	13.0	mg/L	1	12.5	<0.0181	104	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	13.0	mg/L	1	12.5	<0.0181	104	90 - 110	0	

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

Matrix Spike (MS-1) Spiked Sample: 168431

QC Batch:	51103	Date Analyzed:	2008-08-05	Analyzed By:	AR
Prep Batch:	43811	QC Preparation:	2008-08-04	Prepared By:	AR

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[1]	90600	mg/L	50	625	90576	4	90 - 110

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	90500	mg/L	50	625	90576	0	90 - 110	0	

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

Standard (ICV-1)

QC Batch: 51103 Date Analyzed: 2008-08-05 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.1	105	90 - 110	2008-08-05

Standard (CCV-1)

QC Batch: 51103 Date Analyzed: 2008-08-05 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.0	104	90 - 110	2008-08-05

[1] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Analysis Request of Chain of Custody Record

8080109 PAGE: 1 OF: 1

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

CLIENT NAME: Celero

SITE MANAGER: Ike Tavarez

PROJECT NO.: 3136

PROJECT NAME: Celero - Dricky Queen Saltwater plant #3

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
169222	7.31.08	1:30	W		X	TMW - 1	1				X	

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
												X				

RELINQUISHED BY: (Signature) — Date: 8-1-08 Time: 10:47 AM
RECEIVED BY: (Signature) Lindsey Wilson — Date: 08-01-08 Time: 10:47 AM
SAMPLED BY: (Print & Initial) J. Jones / J. Russo — Date: Time:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
HIGHLANDER CONTACT PERSON: Ike Tavarez — Results by:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE: DATE: TIME:
RECEIVED BY: (Signature)
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.4 °C

REMARKS: Chloride in Midland

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Highlander Environmental Corp. - Project Manager retains Pink copy - Accounting receives Gold copy.

TRACEANALYSIS, INC.

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

Analytical and Quality Control Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: November 13, 2007

Work Order: 7103136

Project Name: Drickey Queen Unit 3
Project Number: 3136

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
141331	SB-1 (3-5')	soil	2007-10-29	00:00	2007-10-31
141332	SB-1 (8-10')	soil	2007-10-29	00:00	2007-10-31
141333	SB-1 (13-15')	soil	2007-10-29	00:00	2007-10-31
141334	SB-1 (18-20')	soil	2007-10-29	00:00	2007-10-31
141335	SB-1 (28-30')	soil	2007-10-29	00:00	2007-10-31
141336	SB-1 (38-40')	soil	2007-10-29	00:00	2007-10-31
141337	SB-1 (48-50')	soil	2007-10-29	00:00	2007-10-31
141338	SB-1 (58-60')	soil	2007-10-29	00:00	2007-10-31
141339	SB-1 (68-70')	soil	2007-10-29	00:00	2007-10-31
141340	SB-1 (78-80')	soil	2007-10-29	00:00	2007-10-31
141341	SB-2 (8-10')	soil	2007-10-29	00:00	2007-10-31
141342	SB-2 (18-20')	soil	2007-10-29	00:00	2007-10-31
141343	SB-2 (28-30')	soil	2007-10-29	00:00	2007-10-31
141344	SB-2 (38-40')	soil	2007-10-29	00:00	2007-10-31
141345	SB-2 (48-50')	soil	2007-10-29	00:00	2007-10-31
141346	SB-3 (8-10')	soil	2007-10-29	00:00	2007-10-31
141347	SB-3 (18-20')	soil	2007-10-29	00:00	2007-10-31
141348	SB-3 (28-30')	soil	2007-10-29	00:00	2007-10-31
141349	SB-3 (38-40')	soil	2007-10-29	00:00	2007-10-31
141350	SB-3 (48-50')	soil	2007-10-29	00:00	2007-10-31
141351	SB-4 (8-10')	soil	2007-10-29	00:00	2007-10-31
141352	SB-4 (18-20')	soil	2007-10-29	00:00	2007-10-31
141353	SB-4 (28-30')	soil	2007-10-29	00:00	2007-10-31
141354	SB-4 (38-40')	soil	2007-10-29	00:00	2007-10-31

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
141355	SB-4 (48-50')	soil	2007-10-29	00:00	2007-10-31
141356	SB-5 (8-10')	soil	2007-10-29	00:00	2007-10-31
141357	SB-5 (18-20')	soil	2007-10-29	00:00	2007-10-31
141358	SB-5 (28-30')	soil	2007-10-29	00:00	2007-10-31
141359	SB-5 (38-40')	soil	2007-10-29	00:00	2007-10-31
141360	SB-5 (48-50')	soil	2007-10-29	00:00	2007-10-31

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

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 141331 - SB-1 (3-5')

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	42934	Date Analyzed:	2007-11-09	Analyzed By:	DC
Prep Batch:	37042	Sample Preparation:	2007-11-08	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.09	mg/Kg	1	1.00	109	39.6 - 116
4-Bromofluorobenzene (4-BFB)		0.637	mg/Kg	1	1.00	64	47.3 - 144.2

Sample: 141331 - SB-1 (3-5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42947	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37060	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1150**	mg/Kg	50	2.00

Sample: 141331 - SB-1 (3-5')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	42653	Date Analyzed:	2007-11-02	Analyzed By:	LD
Prep Batch:	36804	Sample Preparation:	2007-11-02	Prepared By:	LD

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		178	mg/Kg	1	150	119	17.3 - 169.6

Sample: 141331 - SB-1 (3-5')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	42937	Date Analyzed:	2007-11-09	Analyzed By:	DC
Prep Batch:	37042	Sample Preparation:	2007-11-08	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.762	mg/Kg	1	1.00	76	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.693	mg/Kg	1	1.00	69	51.2 - 107.4

Sample: 141332 - SB-1 (8-10')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42947	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37060	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1680**	mg/Kg	50	2.00

Sample: 141333 - SB-1 (13-15')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42947	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37060	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**948**	mg/Kg	50	2.00

Sample: 141334 - SB-1 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42947	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37060	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1330**	mg/Kg	50	2.00

Sample: 141335 - SB-1 (28-30')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42947	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37060	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2350**	mg/Kg	50	2.00

Sample: 141336 - SB-1 (38-40')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42947	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37060	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5780**	mg/Kg	50	2.00

Sample: 141337 - SB-1 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42947	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37060	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**7290**	mg/Kg	50	2.00

Sample: 141338 - SB-1 (58-60')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42947	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37060	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**6310**	mg/Kg	50	2.00

Sample: 141339 - SB-1 (68-70')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2140**	mg/Kg	50	2.00

Sample: 141340 - SB-1 (78-80')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

continued ...

sample 141340 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1270**	mg/Kg	50	2.00

Sample: 141341 - SB-2 (8-10')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**155**	mg/Kg	50	2.00

Sample: 141342 - SB-2 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1960**	mg/Kg	50	2.00

Sample: 141343 - SB-2 (28-30')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2410**	mg/Kg	50	2.00

Sample: 141344 - SB-2 (38-40')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1100**	mg/Kg	50	2.00

Sample: 141345 - SB-2 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1190**	mg/Kg	50	2.00

Sample: 141346 - SB-3 (8-10')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**184**	mg/Kg	50	2.00

Sample: 141347 - SB-3 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**533**	mg/Kg	50	2.00

Sample: 141348 - SB-3 (28-30')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42948	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37062	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**931**	mg/Kg	50	2.00

Sample: 141349 - SB-3 (38-40')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

continued ...

sample 141349 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**110**	mg/Kg	1	2.00

Sample: 141350 - SB-3 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

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

Sample: 141351 - SB-4 (8-10')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

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

Sample: 141352 - SB-4 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**876**	mg/Kg	50	2.00

Sample: 141353 - SB-4 (28-30')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3910**	mg/Kg	50	2.00

Sample: 141354 - SB-4 (38-40')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**728**	mg/Kg	50	2.00

Sample: 141355 - SB-4 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

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

Sample: 141356 - SB-5 (8-10')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

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

Sample: 141357 - SB-5 (18-20')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**263**	mg/Kg	50	2.00

Sample: 141358 - SB-5 (28-30')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42949	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37063	Sample Preparation:		Prepared By:	AR

continued ...

sample 141358 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**345**	mg/Kg	50	2.00

Sample: 141359 - SB-5 (38-40')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42980	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37085	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**571**	mg/Kg	50	2.00

Sample: 141360 - SB-5 (48-50')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	42980	Date Analyzed:	2007-11-12	Analyzed By:	AR
Prep Batch:	37085	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**486**	mg/Kg	50	2.00

Method Blank (1) QC Batch: 42653

QC Batch:	42653	Date Analyzed:	2007-11-02	Analyzed By:	LD
Prep Batch:	36804	QC Preparation:	2007-11-02	Prepared By:	LD

Parameter	Flag	MDL Result	Units	RL
DRO		32.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		86.5	mg/Kg	1	150	58	32.9 - 156.1

Method Blank (1) QC Batch: 42934

QC Batch:	42934	Date Analyzed:	2007-11-09	Analyzed By:	DC
Prep Batch:	37042	QC Preparation:	2007-11-08	Prepared By:	DC

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)		0.950	mg/Kg	1	1.00	95	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.615	mg/Kg	1	1.00	62	25 - 123.7

Method Blank (1) QC Batch: 42937

QC Batch: 42937 Date Analyzed: 2007-11-09 Analyzed By: DC
Prep Batch: 37042 QC Preparation: 2007-11-08 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.972	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.727	mg/Kg	1	1.00	73	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.617	mg/Kg	1	1.00	62	24.6 - 123

Method Blank (1) QC Batch: 42947

QC Batch: 42947 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37060 QC Preparation: 2007-11-12 Prepared By: AR

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

Method Blank (1) QC Batch: 42948

QC Batch: 42948 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37062 QC Preparation: 2007-11-12 Prepared By: AR

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

Method Blank (1) QC Batch: 42949

QC Batch: 42949 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37063 QC Preparation: 2007-11-12 Prepared By: AR

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

Method Blank (1) QC Batch: 42980

QC Batch: 42980 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37085 QC Preparation: 2007-11-12 Prepared By: AR

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

Laboratory Control Spike (LCS-1)

QC Batch: 42653 Date Analyzed: 2007-11-02 Analyzed By: LD
Prep Batch: 36804 QC Preparation: 2007-11-02 Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	198	mg/Kg	1	250	<13.4	79	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	209	mg/Kg	1	250	<13.4	84	49.1 - 142.3	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	119	118	mg/Kg	1	150	79	79	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 42934 Date Analyzed: 2007-11-09 Analyzed By: DC
Prep Batch: 37042 QC Preparation: 2007-11-08 Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.03	mg/Kg	1	1.00	<0.00110	103	71.2 - 119
Toluene	0.969	mg/Kg	1	1.00	<0.00150	97	76.3 - 116.5
Ethylbenzene	0.865	mg/Kg	1	1.00	<0.00160	86	77.6 - 114
Xylene	2.55	mg/Kg	1	3.00	<0.00410	85	78.8 - 113.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.04	mg/Kg	1	1.00	<0.00110	104	71.2 - 119	1	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Toluene	1.04	mg/Kg	1	1.00	<0.00150	104	76.3 - 116.5	7	20
Ethylbenzene	0.864	mg/Kg	1	1.00	<0.00160	86	77.6 - 114	0	20
Xylene	2.56	mg/Kg	1	3.00	<0.00410	85	78.8 - 113.9	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.945	1.04	mg/Kg	1	1.00	94	104	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.782	0.784	mg/Kg	1	1.00	78	78	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 42937 Date Analyzed: 2007-11-09 Analyzed By: DC
Prep Batch: 37042 QC Preparation: 2007-11-08 Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.34	mg/Kg	1	10.0	<0.739	93	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	9.76	mg/Kg	1	10.0	<0.739	98	56 - 105.2	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.866	0.974	mg/Kg	1	1.00	87	97	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.722	0.685	mg/Kg	1	1.00	72	68	67.2 - 119.2

Laboratory Control Spike (LCS-1)

QC Batch: 42947 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37060 QC Preparation: 2007-11-12 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.2	mg/Kg	1	100	<0.500	98	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	99.2	mg/Kg	1	100	<0.500	99	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: 42948 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37062 QC Preparation: 2007-11-12 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	98.1	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: 42949 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37063 QC Preparation: 2007-11-12 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: 42980 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37085 QC Preparation: 2007-11-12 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.5	mg/Kg	1	100	<0.500	98	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	98.5	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.

Matrix Spike (MS-1) Spiked Sample: 140623

QC Batch: 42653 Date Analyzed: 2007-11-02 Analyzed By: LD
Prep Batch: 36804 QC Preparation: 2007-11-02 Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	371	mg/Kg	1	250	276	38	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	[1]	291	mg/Kg	1	250	276	6	30.2 - 201.4	24	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	164	164	mg/Kg	1	150	109	109	10 - 194

Matrix Spike (MS-1) Spiked Sample: 141994

QC Batch: 42934 Date Analyzed: 2007-11-09 Analyzed By: DC
Prep Batch: 37042 QC Preparation: 2007-11-08 Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.07	mg/Kg	1	1.00	<0.00110	107	65.7 - 119.1
Toluene	1.21	mg/Kg	1	1.00	<0.00150	121	47.7 - 153.8
Ethylbenzene	1.26	mg/Kg	1	1.00	<0.00160	126	73.5 - 126.3
Xylene	3.76	mg/Kg	1	3.00	<0.00410	125	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	[2]	1.26	mg/Kg	1	1.00	<0.00110	126	65.7 - 119.1	16	20
Toluene	[3]	1.51	mg/Kg	1	1.00	<0.00150	151	47.7 - 153.8	22	20
Ethylbenzene	[4]	1.55	mg/Kg	1	1.00	<0.00160	155	73.5 - 126.3	21	20
Xylene	[5]	4.78	mg/Kg	1	3.00	<0.00410	159	73.6 - 125.9	24	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)	0.734	0.826	mg/Kg	1	1	73	83	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.16	1.07	mg/Kg	1	1	116	107	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 141491

QC Batch: 42937 Date Analyzed: 2007-11-09 Analyzed By: DC
Prep Batch: 37042 QC Preparation: 2007-11-08 Prepared By: DC

[1]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[2]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[3]RPD out due to extractio process. Use LCS/LCSD to show method is in control. •
[4]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[5]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	33.2	mg/Kg	1	10.0	23.7787	94	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]	25.5	mg/Kg	1	10.0	23.7787	17	10 - 102.2	26	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)	0.535	0.541	mg/Kg	1	1	54	54	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.34	1.21	mg/Kg	1	1	134	121	58 - 162.6

Matrix Spike (MS-1) Spiked Sample: 141338

QC Batch: 42947 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37060 QC Preparation: 2007-11-12 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10900	mg/Kg	50	5000	6310.73	92	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	10900	mg/Kg	50	5000	6310.73	92	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: 141348

QC Batch: 42948 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37062 QC Preparation: 2007-11-12 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5830	mg/Kg	50	5000	930.683	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	5870	mg/Kg	50	5000	930.683	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: 141358

QC Batch: 42949 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37063 QC Preparation: 2007-11-12 Prepared By: AR

[6] RPD out of control limits due to extraction process. Use LCS/LCSD to show method is in control. •

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5320	mg/Kg	50	5000	344.828	100	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	5370	mg/Kg	50	5000	344.828	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: 141467

QC Batch: 42980 Date Analyzed: 2007-11-12 Analyzed By: AR
Prep Batch: 37085 QC Preparation: 2007-11-12 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride [7]	9260	mg/Kg	50	5000	5198.11	81	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 [8]	9310	mg/Kg	50	5000	5198.11	82	85 - 115	0	20

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

Standard (CCV-1)

QC Batch: 42653 Date Analyzed: 2007-11-02 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	221	88	85 - 115	2007-11-02

Standard (CCV-2)

QC Batch: 42653 Date Analyzed: 2007-11-02 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	233	93	85 - 115	2007-11-02

Standard (ICV-1)

QC Batch: 42934 Date Analyzed: 2007-11-09 Analyzed By: DC

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

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0950	95	85 - 115	2007-11-09
Toluene		mg/Kg	0.100	0.0952	95	85 - 115	2007-11-09
Ethylbenzene		mg/Kg	0.100	0.0891	89	85 - 115	2007-11-09
Xylene		mg/Kg	0.300	0.267	89	85 - 115	2007-11-09

Standard (CCV-1)

QC Batch: 42934 Date Analyzed: 2007-11-09 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0986	99	85 - 115	2007-11-09
Toluene		mg/Kg	0.100	0.100	100	85 - 115	2007-11-09
Ethylbenzene		mg/Kg	0.100	0.0950	95	85 - 115	2007-11-09
Xylene		mg/Kg	0.300	0.286	95	85 - 115	2007-11-09

Standard (ICV-1)

QC Batch: 42937 Date Analyzed: 2007-11-09 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.938	94	85 - 115	2007-11-09

Standard (CCV-1)

QC Batch: 42937 Date Analyzed: 2007-11-09 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.09	109	85 - 115	2007-11-09

Standard (ICV-1)

QC Batch: 42947 Date Analyzed: 2007-11-12 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2007-11-12

Standard (CCV-1)

QC Batch: 42947 Date Analyzed: 2007-11-12 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-11-12

Standard (ICV-1)

QC Batch: 42948 Date Analyzed: 2007-11-12 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	2007-11-12

Standard (CCV-1)

QC Batch: 42948 Date Analyzed: 2007-11-12 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2007-11-12

Standard (ICV-1)

QC Batch: 42949 Date Analyzed: 2007-11-12 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.9	98	85 - 115	2007-11-12

Standard (CCV-1)

QC Batch: 42949 Date Analyzed: 2007-11-12 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	2007-11-12

Standard (ICV-1)

QC Batch: 42980 Date Analyzed: 2007-11-12 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-11-12

Standard (CCV-1)

QC Batch: 42980 Date Analyzed: 2007-11-12 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.4	99	85 - 115	2007-11-12

work order: 7103136

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

PAGE: 1 OF: 3

CLIENT NAME: Celero

SITE MANAGER: Ike Tavarez / Jeffrey Kindley

PROJECT NO.: 3136

PROJECT NAME: Drickey Queen Unit 3

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/603	TPH 8015 MOD/TX1005	TPH 418.1	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
141331	10/29/07		S		✓	SB-1 (3-5')	1				✓	✓	✓		✓												✓			
332	10/29/07		S		✓	SB-1 (8-10')	1				✓	✓	*		*												✓			
333	10/29/07		S		✓	SB-1 (13-15')	1				✓	✓															✓			
334	10/29/07		S		✓	SB-1 (18-20')	1				✓	✓															✓			
335	10/29/07		S		✓	SB-1 (28-30')	1				✓	✓															✓			
336	10/29/07		S		✓	SB-1 (38-40')	1				✓	✓															✓			
337	10/29/07		S		✓	SB-1 (48-50')	1				✓	✓															✓			
338	10/29/07		S		✓	SB-1 (58-60')	1				✓	✓															✓			
339	10/29/07		S		✓	SB-1 (68-70')	1				✓	✓															✓			
340	10/29/07		S		✓	SB-1 (78-80')	1				✓	✓															✓			

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Date: 10-31-07 Time: 3:00
RECEIVED BY: (Signature) Date: 10-31-07 Time: 3:00
SAMPLED BY: (Print & Sign) Jeffrey Kindley Jeffrey Kindley Date: October 29, 2007 Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace Analysis
ADDRESS:
CITY: Midland STATE: Tx ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) DATE: TIME:

HIGHLANDER CONTACT PERSON: Ike Tavarez / Jeff Kindley

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.5 C intact

MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS: * Only run this if sample above is >5000ppm TPH or BTEX >50ppm or Benzene >10 ppm

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Enviromental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

All tests - Midland

work order: 7103136

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: Celero

SITE MANAGER: Ike Tavarez / Jeff Kindley

PROJECT NO.: 3136

PROJECT NAME: Drickey Queen Unit #3

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 / 8015 MOD. / TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
131341	10/29/07		S		✓	SB-2 (8-10')	1				✓	✓														✓			
342	10/29/07		S		✓	SB-2 (18-20')	1				✓	✓														✓			
343	10/29/07		S		✓	SB-2 (28-30')	1				✓	✓														✓			
344	10/29/07		S		✓	SB-2 (38-40')	1				✓	✓														✓			
345	10/29/07		S		✓	SB-2 (48-50')	1				✓	✓														✓			
346	10/29/07		S		✓	SB-3 (8-10')	1				✓	✓														✓			
347	10/29/07		S		✓	SB-3 (18-20')	1				✓	✓														✓			
348	10/29/07		S		✓	SB-3 (28-30')	1				✓	✓														✓			
349	10/29/07		S		✓	SB-3 (38-40')	1				✓	✓														✓			
350	10/29/07		S		✓	SB-3 (48-50')	1				✓	✓														✓			

RELINQUISHED BY: (Signature) Date: 10-31-07 Time: 3:00
RECEIVED BY: (Signature) Date: 10-31-07 Time: 3:05
SAMPLED BY: (Print & Sign) Jeffrey Kindley Jeffy Kindley Date: October 29, 2007 Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
HAND DELIVERED UPS OTHER:

RECEIVING LABORATORY: True Analysis
ADDRESS:
CITY: Midland STATE: Tx ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) DATE: TIME:

HIGHLANDER CONTACT PERSON: Ike Tavarez / Jeff Kindley

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.5° C intact

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: All tests - Midland

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Enviromental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

AR

Work order: 7103136

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: Celero

SITE MANAGER: IKe Tavarez / Jeff Kindley

PROJECT NO.: 3136

PROJECT NAME: Drickey Queen Unit #3

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	ANALYSIS REQUEST (Circle or Specify Method No.): BTEX 8020/602	MTBE 8020/602	TX1005 (8015 MOD.)	TPH 418.1	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
131351	10/29/07		S		✓	SB-4 (8-10')	1				✓	✓															✓			
352	10/29/07		S		✓	SB-4 (18-20')	1				✓	✓															✓			
353	10/29/07		S		✓	SB-4 (28-30')	1				✓	✓															✓			
354	10/29/07		S		✓	SB-4 (38-40')	1				✓	✓															✓			
355	10/29/07		S		✓	SB-4 (48-50')	1				✓	✓															✓			
356	10/30/07		S		✓	SB-5 (8-10')	1				✓	✓															✓			
357	10/30/07		S		✓	SB-5 (18-20')	1				✓	✓															✓			
358	10/30/07		S		✓	SB-5 (28-30')	1				✓	✓															✓			
359	10/30/07		S		✓	SB-5 (38-40')	1				✓	✓															✓			
360	10/30/07		S		✓	SB-5 (48-50')	1				✓	✓															✓			

RELINQUISHED BY: (Signature) Date: 10-31-07 Time: 3:00

RECEIVED BY: (Signature) Date: 10-31-07 Time: 3:00

SAMPLED BY: (Print & Sign) Jeffrey Kindley Jeffy Kindley Date: October 29, 2007 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

HAND DELIVERED UPS OTHER:

RECEIVING LABORATORY: Trav Analysis

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: TIME:

HIGHLANDER CONTACT PERSON: IKe Tavarez / Jeff Kindley

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.5°C intact

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: All tests Midland

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Environmental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

AK

APPENDIX C
PERMEABILITY/SIEVE ANALYSIS

Hines, Joleen

From: Hines, Joleen
Sent: Monday, September 26, 2005 3:46 PM
To: 'John P Pellicer'
Subject: Cover Bucket Density & Clay K-Sat

John,

I have attached the results for the density of the cover material 'as-is' in the 5-gal bucket, and the saturated hydraulic conductivity for the clay (remolded at 90%). Please let me know how to proceed.

Thank you,

Joleen

Joleen Hines
Daniel B. Stephens & Associates Laboratory
5640 Osuna Rd., NE
Albuquerque, NM 87109

505.889.7752
505.889.0258(fax)
jhines@dbstephens.com
www.dbstephens.com

Daniel B. Stephens & Associates, Inc.

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name: Gandy Marley
Job Number: LB05.0208.00
Sample Number: Cover (Bucket)
Ring Number: N/A
Depth: N/A

Test Date: 23-Sep-05

Field weight of sample (g):* 21536.00
Tare weight, ring (g): 0.00
Tare weight, cap/plate/epoxy (g): 0.00

Dry weight of sample (g): 20511.00
Sample volume (cm^3): 14884.53
Assumed particle density: 2.65

Initial Volumetric Moisture Content (% vol):	6.9
Initial Gravimetric Moisture Content (% g/g):	5.0
Dry bulk density (g/cm^3):	1.38
Wet bulk density (g/cm^3):	1.45
Calculated Porosity (% vol):	48.0
Percent Saturation:	14.3

Comments:

* Weight including tares
NA = Not analyzed

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Daniel B. Stephens & Associates, Inc.

Summary of Saturated Hydraulic Conductivity Tests

Sample Number	K_{sat} (cm/sec)	Method of Analysis: Constant Head Flexible Wall	Method of Analysis: Falling Head Flexible Wall
Clay	1.5E-08		X

Daniel B. Stephens & Associates, Inc.

SAMPLE RECEIPT FORM

CLIENT: Gandy Marley, Inc. DATE RECEIVED: 9/16/05

PROJECT #: _____

DBS&A
PROJECT #: _____

1) Are the custody seals on the cooler intact?	NA
2) Are the custody seals on the sample containers intact?	Yes
3) Are there Chain of Custody(COC), or other directive shipping papers?	Yes
4) Is the COC complete?	See Notes
5) Is the COC in agreement with the samples received?	See Notes
6) Did all the samples arrive intact?	Yes
7) Comments	

Three samples arrived, each in full 5-gallon buckets, in good condition. The clay sample is being prepared today and testing will begin soon. Will await further instuction on the Cover and Caliche samples. Also awaiting in-situ clay core sample.

If you have any questions or concerns please contact Joleen Hines at (505) 889-7752.

NOTE: Samples will be held for a period of 30 days after the completion of testing. After 30 days samples will be disposed of locally unless DBS&A receives other instructions.

Signature: _____

5640 OSUNA RD NE, ALBUQUERQUE, NM 87109
(505) 889-7752 FAX (505) 889-0258

APPENDIX D
BORING LOGS

SAMPLE LOG

Boring/Well: TMW-1
Project Number: 3136
Client: Celero Energy
Site Location: Drickey Queen Unit SWD Plant #3
Location: Chavez County, New Mexico
Total Depth 100
Date Installed: 10/30/07

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-10	2.1	Tan/yellow fine grain sand
15-20	2.2	Tan fine grain sand
25-30	2.3	Yellowish/red fine grain sand
35-40	2.6	Red fine grain sand
45-50	2.8	Red/brown fine grain sand
55-60	2.1	Tan/red fine grain sand
65-70	2.4	Red sandy clay
75-80	2.6	Red clay of high plasticity (red clay)
85-90	2.7	Red clay of high plasticity (red clay)
95-100	2.2	Red clay of high plasticity (red clay)

Total Depth is 100 feet No Groundwater encountered during drilling

SAMPLE LOG

Boring/Well: SB-1
Project Number: 3136
Client: Celero Energy
Site Location: Drickey Queen Unit SWD Plant #3
Location: Chavez County, New Mexico
Total Depth 80
Date Installed: 10/29/07

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
0-5	18.2	Tan fine grain well sorted sand
5-10	10.4	Tan fine grain well sorted sand
10-15	3.2	Tan fine grain well sorted sand
15-20	2.2	Tan fine grain well sorted sand
25-30	2.3	Brown/red well sorted sand
35-40	2.2	Brown/red well sorted sand
45-50	2.1	Brown/red well sorted sand
55-60	1.9	Brown clayey sand
65-70	2.0	Red clay (Red bed)
75-80	2.1	Red clay (Red bed)

Total Depth is 70 feet No Groundwater encountered during drilling

SAMPLE LOG

Boring/Well: SB-2
Project Number: 3136
Client: Celero Energy
Site Location: Drickey Queen Unit SWD Plant #3
Location: Chavez County, New Mexico
Total Depth 50
Date Installed: 10/29/07

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-10	2.3	Brown fine grain sand
15-20	2.2	Tan fine grain sand
25-30	2.1	Tan fine grain sand
35-40	2.2	Brown/red well sorted sand
45-50	2.1	Brown/red well sorted sand

Total Depth is 50 feet No Groundwater encountered during drilling

SAMPLE LOG

Boring/Well: SB-3
Project Number: 3136
Client: Celero Energy
Site Location: Drickey Queen Unit SWD Plant #3
Location: Chavez County, New Mexico
Total Depth 50
Date Installed: 10/29/07

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-10	2.2	Brown well sorted sand with hydrocarbon odor
15-20	2.2	Tan fine grain well sorted sand
25-30	2.3	Tan fine grain well sorted sand
35-40	2.4	Brown well sorted fine grain sand
45-50	2.1	Brown well sorted fine grain sand

Total Depth is 50 feet No Groundwater encountered during drilling

SAMPLE LOG

Boring/Well: SB-4
Project Number: 3136
Client: Celero Energy
Site Location: Drickey Queen Unit SWD Plant #3
Location: Chavez County, New Mexico
Total Depth 50
Date Installed: 10/29/07

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-10	2.4	Brown fine grain sand
15-20	2.3	Tan fine grain well sorted sand
25-30	2.1	Tan fine grain well sorted sand
35-40	2.2	Red fine grain well sorted sand
45-50	1.9	Tan/red fine grain well sorted sand

Total Depth is 50 feet No Groundwater encountered during drilling

SAMPLE LOG

Boring/Well: SB-5
Project Number: 3136
Client: Celero Energy
Site Location: Drickey Queen Unit SWD Plant #3
Location: Chavez County, New Mexico
Total Depth 50
Date Installed: 10/30/07

DEPTH (Ft)	OVM	SAMPLE DESCRIPTION
5-10	2.3	Tan/brown fine grain well sorted sand
15-20	2.1	Tan fine grain well sorted sand
25-30	2.2	Tan fine grain well sorted sand
35-40	2.3	Reddish tan/brown well sorted fine grain sand
45-50	2.1	Reddish tan/brown well sorted fine grain sand

Total Depth is 50 feet No Groundwater encountered during drilling

APPENDIX E
INITIAL/FINAL C-141 & C-144

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised June 10, 2003

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

Release Notification and Corrective Action

(AMENDED)

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Celero Energy II, LP	Contact: Bruce Woodard
Address: 400 W. Illinois, Suite 1601, Midland, TX 79701	Telephone No. 432-686-1883
Facility Name: Drickey Queen Unit Salt Water Plant #3	Facility Type: Pit at Facility

Surface Owner State	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	16	14S	31E					Chaves

Latitude 33.13221° **Longitude** 103.80971°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Unknown	Volume Recovered None
Source of Release	Date and Hour of Occurrence Unknown	Date and Hour of Discovery N/A
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson, NMOCD	
By Whom? Bruce Woodard	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
This is an historic pit location. Celero acquired from Palisades and is in the process of closing.

Describe Area Affected and Cleanup Action Taken.*
Pit has been dewatered and visually impacted soil removed as per Investigation and Characterization Plan. Soil borings have been placed in and around pit.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Bruce Woodard	Approved by District Supervisor:	
Title: Engineer	Approval Date:	Expiration Date:
E-mail Address: bwoodard@celeroenergy.com	Conditions of Approval:	Attached ☐
Date: Phone: (432) 686-1883		

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Celero Energy II, LP	Contact: Bruce Woodard
Address: 400 W. Illinois, Suite 1601, Midland, TX 79701	Telephone No. 432-686-1883
Facility Name: Drickey Queen Unit Salt Water Plant #3	Facility Type: Pit at Facility

Surface Owner State	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	16	14S	31E					Chaves

Latitude 33.13221° **Longitude** 103.80971°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Unknown	Volume Recovered None
Source of Release	Date and Hour of Occurrence Unknown	Date and Hour of Discovery N/A
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson, NMOCD	
By Whom? Bruce Woodard	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
This is an historic pit location. Celero acquired from Palisades and is in the process of closing.

Describe Area Affected and Cleanup Action Taken.*
Pit has been dewatered and visually impacted soil removed as per Investigation and Characterization Plan. Soil borings have been placed in and around pit. A clay liner was installed at 4 feet bgs with dimensions of 95 feet by 115 feet to preclude further vertical migration of chlorides.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Bruce Woodard	Approved by District Supervisor:
Title: Engineer	Approval Date: / Expiration Date:
E-mail Address: bwoodard@celeroenergy.com	Conditions of Approval: / Attached ☐
Date: Phone: (432) 686-1883	

Attach Additional Sheets If Necessary

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Energy Minerals and Natural Resources

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Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Celero Energy II, LP Telephone: (432) 686-1883 e-mail address: bwoodard@celeroenergy.com
Address: 400 West Illinois, Suite 1601, Midland, Texas 79701
Facility or well name: Drickey Queen Unit Saltwater Plant # 3 API #: _____ U/L or Qtr/Qtr H Sec 16 T-14-S R-31-E
County: Chaves Latitude 33.13221 N Longitude 103.80971 W NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☒ Private ☐ Indian ☐

Pit
Type: Drilling ☐ Production ☐ Disposal ☐
Workover ☐ Emergency ☒
Lined ☐ Unlined ☒
Liner type: None Thickness **Unknown** mil Clay ☐
Pit Volume 5,000 bbl

Below-grade tank
Volume: _____bbl Type of fluid: _____
Construction material: _____
Double-walled, with leak detection? Yes ☐ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) **0**
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) **0**
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) **10** (0 points)
	Ranking Score (Total Points)	**10**

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface_____ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: This registration is for information purposes only. This pit was constructed in the 1960's and were inventoried, but never registered in 1997.
This pit is out of service and a work plan for closure is being prepared.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐. See above ☒**

Date: **6-15-2007**
Printed Name/Title **Bruce Woodard, Engineer** Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title _____ Signature _____ Date: _____

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Energy Minerals and Natural Resources

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Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☐

Operator: Celero Energy II. LP Telephone: (432) 686-1883 e-mail address: bwoodward@celeroenergy.com
Address: 400 West Illinios, Suite 1601, Midland, Texas 79701
Facility or well name: Drickey Queen Unit Saltwater Plant #3 API #: U/L or Qtr/Qtr H Sec 16 T 14-S R 31-E
County: Chaves Latitude 33.13221 N Longitude 103.80971 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☒ Private ☐ Indian ☐

Pit	**Below-grade tank**
Type: Drilling ☐ Production ☐ Disposal ☐ Workover ☐ Emergency ☒ Lined ☐ Unlined ☒ Liner type: None Thickness Unknown Clay ☐ Pit Volume 5,000 bbl	Volume: bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes ☐ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) approximately 110 feet	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)	**0**
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)	**0**
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	**10**
	Ranking Score (Total Points)		10

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☒ If offsite, name of facility Gandy-Marley Landfill, Lovington, NM. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Pit was constructed in the 1960s and was inventoried in 1997 but never registered. This pit is out of service and a work plan has been completed and approved for closure. In September 2007 fluids were removed from site and placed into an existing SWD system. The site was excavated and the sludge and tank bottoms were disposed of at Gandy-Marley, Inc. landfill in Lovington, New Mexico. Upon completion of the removal of the fluids the underlying soils were visually inspected for obvious signs of impact. Approximately 1,400 cubic yards of soil were transported to Gandy-Marley for disposal. On October 29, 2007, one soil boring was placed within the pit and four along the perimeter to delineate the chlorides. See attached map/table showing depths and concentrations of chlorides remaining within the pit. A one foot clay liner measuring approximately 95 feet by 115 feet was placed in the pit to a depth of 4.0 feet below the ground level to prevent further vertical migration of the chlorides. The site was then backfilled with clean soil and brought up to surface grade.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date:
Printed Name/Title Bruce Woodward, Engineer Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title Signature Date: