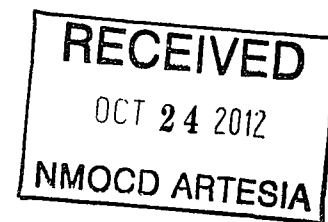




30-015-05803



October 24, 2012

AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

ARTESIA  
408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.746.8905

AUSTIN  
911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

MIDLAND  
2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

SAN ANTONIO  
11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

TULSA  
525 South Main Street  
Suite 535  
Tulsa, Oklahoma 74103  
Phone 918.742.0871  
Fax 918.382.0232

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**  
Devon Energy Corporation  
CEM Tank Battery Closure

Dear Mr. Bratcher,

Devon Energy Corporation has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced CEM Tank Battery. The results of our soil assessment and proposed remediation activities consist of the following:

### Background Information

The CEM Tank Battery is located approximately forty (40) miles southeast of Artesia, New Mexico. The legal location for the site is Section 29, Township 19 South and Range 31 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.636834 North and - 103.88932 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Kermit-Berino complex with 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to Pleistocene in age and is comprised of eolian sands and piedmont deposits which include silty soils underlain with hard caliche. The New Mexico State Engineer web site indicates the nearest ground water data to be in S36-T19S-R31E. The ground water in Section 36 is reported to be a depth of 130' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 0 based on the as following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Toll Free: 866.742.0742  
www.talonlpe.com

## Incident Description

Devon Energy Corporation is preparing to close this facility.

## Actions Taken

On September 12, 2012 Talon/LPE mobilized personnel to begin the site assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing an air rotary rig and split spoon sampling techniques. A site plan illustrating the work area is attached.

Soils samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided glassware and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chlorides were analyzed per method SM4500Cl-B. The complete laboratory report is attached as Appendix II.

## Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

September 21, 2012

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
BH-1	0'	<0.150	<16	722
	2'	<0.150	<16	<10
	4'	--	32	--
	6'	--	<16	--
BH-2	0'	<0.150	<16	4750
	2'	<0.150	<16	<10
	4'	--	<16	--
	6'	--	<16	--
BH-3	0'	<0.150	32	238
	2'	<0.150	96	422
	4'	--	32	--
	6'	--	<16	--
BH-4	0'	<0.150	<16	113
	2'	<0.150	<16	<10
	4'	--	<16	--
	6'	--	<16	--
	8'	--	<16	--

BH-5	0'	<0.150	<16	3820
	2'	5.931	32	16974
	4'	15.654	128	14946
	6'	31.004	480	16570
	8'	<0.150	1330	736
	10'	<0.150	1310	865
	15'	<0.150	352	389
	20'	<0.150	288	128
	30'	<0.150	224	12.6

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

### Summary

- Ground water in the project vicinity is 130-feet below land surface per the New Mexico State Engineer Database.
- Based on the depth to groundwater, it is unlikely that the impacts identified from this release will pose a threat to groundwater after proposed remediation activities are complete.

### Proposed Remedial Actions for Closure of Tank Battery

- The impacted soil around the stock tanks and heater treater will be excavated to a depth of 3-feet deep. The excavated soil will be transported to CRI, Inc., a NMOCD approved disposal facility.
- The caliche from the tank battery area will be removed and either deep buried on location or used to repair lease roads. The area will then be contoured to match surrounding terrain.
- The tank battery area will be cut, ripped and seeded using the recommended BLM seed mixture.
- A road closure berm will be installed on the east and north side of the tank battery area.

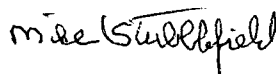
### **Proposed Remedial Actions for the Area West of Tank Battery**

- The historic hydrocarbon impacted flow path at sample location BH-4 will be excavated to a depth of 1-foot deep. The area is approximately 130-feet long by 35-feet wide.
- The historic hydrocarbon impacted area at sample location BH-5 will be excavated to a depth of 6-feet to 8-feet deep. The area is approximately 60-feet long by 40-feet wide.
- The impacted soil will be transported to CRI, Inc. for disposal.
- Confirmation soil samples will be collected from the excavated areas. The soil samples will be submitted to laboratory for TPH analysis using Method 8015M and BTEX analysis using Method 8021B.
- Upon NMOCD and BLM approval of the confirmation samples, the excavated area at BH-5 will be backfilled to grade using new material transported from a local borrow pit and contoured to match existing terrain.
- Windrows will be installed to help with erosion and the facility seeded using the approved BLM seed mixture for the area.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD Artesia Office and BLM along with a C-141 Form marked initial and final report.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

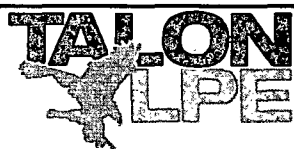
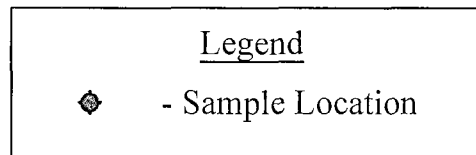
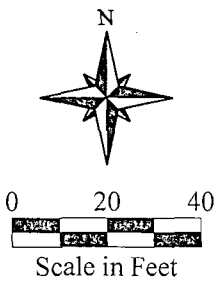
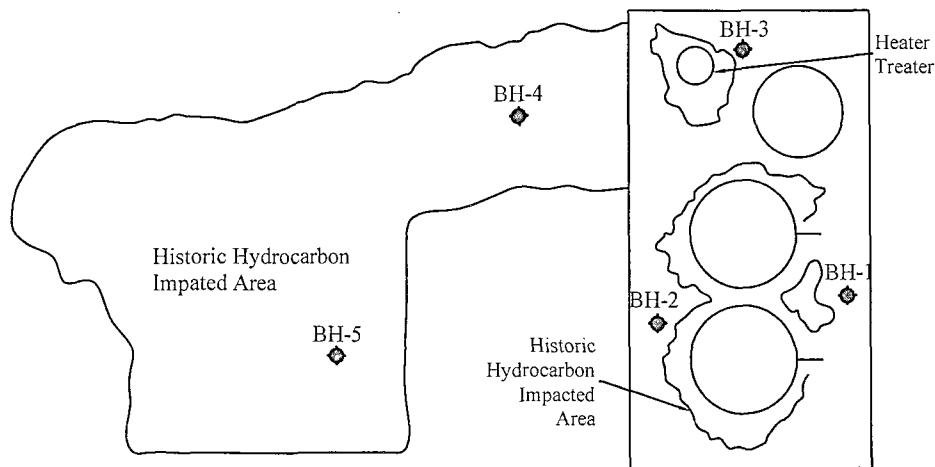


Mike Stubblefield  
Project Manager



David J. Adkins  
District Manager

## **SITE MAP**



Date: 09/26/2012  
 Scale: 1" = 40'  
 Drawn By: TJS

CEM Tank Battery  
 Devon Energy Corporation  
 Artesia, New Mexico  
 Figure 1 - Site Plan

**APPENDIX I**  
**GROUNDWATER DATA**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00829			LE	2	4	16	19S	31E	606165	3614009*	2762	120			
CP 00641 EXPL			ED	4	1	36	19S	31E	610247	3609634*	5921	300	130	170	
CP 00520			ED	4	4	1	10	20S	31E	607163	3606278*	5937	280	130	150
Average Depth to Water:													130 feet		
Minimum Depth:													130 feet		
Maximum Depth:													130 feet		

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 604688

Northing (Y): 3611675

Radius: 6000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



**APPENDIX II**  
**LABORATORY RESULTS**



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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September 21, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CEM TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/14/12 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/14/2012  
Reported: 09/21/2012  
Project Name: CEM TANK BATTERY  
Project Number: 700794.051.01  
Project Location: SEC.29 - T19S - R31E

Sampling Date: 09/12/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH - 1 0' (H202231-01)**

BTEX 8021B		mg/kg	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2012	ND	1.81	90.3	2.00	4.77	
Toluene*	<0.050	0.050	09/19/2012	ND	1.97	98.3	2.00	4.96	
Ethylbenzene*	<0.050	0.050	09/19/2012	ND	1.94	97.1	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/19/2012	ND	5.94	99.0	6.00	4.80	

Surrogate: 4-Bromofluorobenzene (PIL) 139 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/18/2012	ND	172	85.8	200	3.30	
DRO >C10-C28	722	50.0	09/18/2012	ND	173	86.6	200	1.53	

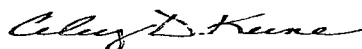
Surrogate: 1-Chlorooctane 81.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 152 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/14/2012	Sampling Date:	09/12/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEM TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	700794.051.01	Sample Received By:	Jodi Henson
Project Location:	SEC.29 - T19S - R31E		

**Sample ID: BH - 1 2' (H202231-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2012	ND	1.81	90.3	2.00	4.77	
Toluene*	<0.050	0.050	09/19/2012	ND	1.97	98.3	2.00	4.96	
Ethylbenzene*	<0.050	0.050	09/19/2012	ND	1.94	97.1	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/19/2012	ND	5.94	99.0	6.00	4.80	

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2012	ND	172	85.8	200	3.30	
DRO >C10-C28	<10.0	10.0	09/18/2012	ND	173	86.6	200	1.53	

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.7 % 63.6-154

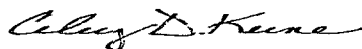
**Sample ID: BH - 1 4' (H202231-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/18/2012	ND	400	100	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/14/2012  
 Reported: 09/21/2012  
 Project Name: CEM TANK BATTERY  
 Project Number: 700794.051.01  
 Project Location: SEC.29 - T19S - R31E

 Sampling Date: 09/12/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BH - 1 6' (H202231-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	0.00	

**Sample ID: BH - 2 0' (H202231-05)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2012	ND	1.81	90.3	2.00	4.77	
Toluene*	<0.050	0.050	09/19/2012	ND	1.97	98.3	2.00	4.96	
Ethylbenzene*	<0.050	0.050	09/19/2012	ND	1.94	97.1	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/19/2012	ND	5.94	99.0	6.00	4.80	

Surrogate: 4-Bromofluorobenzene (PIL) 139 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/18/2012	ND	172	85.8	200	3.30	
DRO >C10-C28	4750	100	09/18/2012	ND	173	86.6	200	1.53	

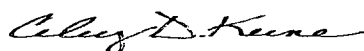
Surrogate: 1-Chlorooctane 76.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 201 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/14/2012  
 Reported: 09/21/2012  
 Project Name: CEM TANK BATTERY  
 Project Number: 700794.051.01  
 Project Location: SEC.29 - T19S - R31E

 Sampling Date: 09/12/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BH - 2 2' (H202231-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2012	ND	1.81	90.3	2.00	4.77	
Toluene*	<0.050	0.050	09/19/2012	ND	1.97	98.3	2.00	4.96	
Ethylbenzene*	<0.050	0.050	09/19/2012	ND	1.94	97.1	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/19/2012	ND	5.94	99.0	6.00	4.80	

Surrogate: 4-Bromofluorobenzene (PIB) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2012	ND	172	85.8	200	3.30	
DRO >C10-C28	<10.0	10.0	09/18/2012	ND	173	86.6	200	1.53	

Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.2 % 63.6-154

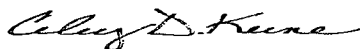
**Sample ID: BH - 2 4' (H202231-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/14/2012  
Reported: 09/21/2012  
Project Name: CEM TANK BATTERY  
Project Number: 700794.051.01  
Project Location: SEC.29 - T19S - R31E

Sampling Date: 09/12/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH - 2 6' (H202231-08)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	7.69		

**Sample ID: BH - 3 0' (H202231-09)**

BTEX 8021B			mg/kg							Analyzed By: MS
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2012	ND	1.81	90.3	2.00	4.77		
Toluene*	<0.050	0.050	09/19/2012	ND	1.97	98.3	2.00	4.96		
Ethylbenzene*	<0.050	0.050	09/19/2012	ND	1.94	97.1	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/19/2012	ND	5.94	99.0	6.00	4.80		

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/18/2012	ND	400	100	400	7.69		

TPH 8015M			mg/kg							Analyzed By: MS
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	09/18/2012	ND	172	85.8	200	3.30		
DRO >C10-C28	238	100	09/18/2012	ND	173	86.6	200	1.53		

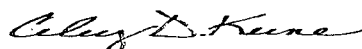
Surrogate: 1-Chlorooctane 82.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.5 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/14/2012  
Reported: 09/21/2012  
Project Name: CEM TANK BATTERY  
Project Number: 700794.051.01  
Project Location: SEC.29 - T19S - R31E

Sampling Date: 09/12/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH - 3 2' (H202231-10)**

BTEX 8021B		mg/kg	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2012	ND	1.81	90.3	2.00	4.77	
Toluene*	<0.050	0.050	09/19/2012	ND	1.97	98.3	2.00	4.96	
Ethylbenzene*	<0.050	0.050	09/19/2012	ND	1.94	97.1	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/19/2012	ND	5.94	99.0	6.00	4.80	

Surrogate: 4-Bromofluorobenzene (PIE) 140 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/18/2012	ND	172	85.8	200	3.30	
DRO >C10-C28	422	50.0	09/18/2012	ND	173	86.6	200	1.53	

Surrogate: 1-Chlorooctane 77.5 % 63.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

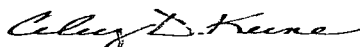
**Sample ID: BH - 3 4' (H202231-11)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/18/2012	ND	400	100	400	7.69	

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\*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/14/2012  
 Reported: 09/21/2012  
 Project Name: CEM TANK BATTERY  
 Project Number: 700794.051.01  
 Project Location: SEC.29 - T19S - R31E

 Sampling Date: 09/12/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BH - 3 6' (H202231-12)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	7.69	

**Sample ID: BH - 4 0' (H202231-13)**

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIE) 99.6 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/18/2012	ND	172	85.8	200	3.30	
DRO >C10-C28	113	50.0	09/18/2012	ND	173	86.6	200	1.53	

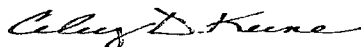
Surrogate: 1-Chlorooctane 73.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/14/2012  
 Reported: 09/21/2012  
 Project Name: CEM TANK BATTERY  
 Project Number: 700794.051.01  
 Project Location: SEC.29 - T19S - R31E

 Sampling Date: 09/12/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BH - 4 2' (H202231-14)**

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIE) 99.1 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2012	ND	172	85.8	200	3.30	
DRO >C10-C28	<10.0	10.0	09/18/2012	ND	173	86.6	200	1.53	

Surrogate: 1-Chlorooctane 75.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 71.9 % 63.6-154

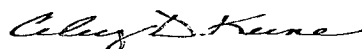
**Sample ID: BH - 4 4' (H202231-15)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	7.69	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/14/2012  
Reported: 09/21/2012  
Project Name: CEM TANK BATTERY  
Project Number: 700794.051.01  
Project Location: SEC.29 - T19S - R31E

Sampling Date: 09/12/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH - 4 6' (H202231-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	7.69	

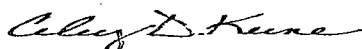
**Sample ID: BH - 4 8' (H202231-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	7.69	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/14/2012  
Reported: 09/21/2012  
Project Name: CEM TANK BATTERY  
Project Number: 700794.051.01  
Project Location: SEC.29 - T19S - R31E

Sampling Date: 09/12/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH - 5 0' (H202231-18)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIE) 98.5 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	09/18/2012	ND	172	85.8	200	3.30		
DRO >C10-C28	3820	100	09/18/2012	ND	173	86.6	200	1.53		

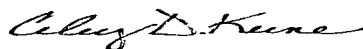
Surrogate: 1-Chlorooctane 78.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 207 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/14/2012  
 Reported: 09/21/2012  
 Project Name: CEM TANK BATTERY  
 Project Number: 700794.051.01  
 Project Location: SEC.29 - T19S - R31E

 Sampling Date: 09/12/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BH - 5 2' (H202231-19)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.222	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	0.489	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	1.93	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	3.29	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIE) 296 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	374	200	09/18/2012	ND	172	85.8	200	3.30	
DRO >C10-C28	16600	200	09/18/2012	ND	173	86.6	200	1.53	

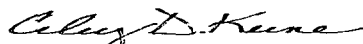
Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 365 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/14/2012  
Reported: 09/21/2012  
Project Name: CEM TANK BATTERY  
Project Number: 700794.051.01  
Project Location: SEC.29 - T19S - R31E

Sampling Date: 09/12/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH - 5 4' (H202231-20)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.344</b>	0.200	09/20/2012	ND	2.25	113	2.00	9.99	
<b>Toluene*</b>	<b>1.12</b>	0.200	09/20/2012	ND	2.46	123	2.00	10.6	
<b>Ethylbenzene*</b>	<b>4.59</b>	0.200	09/20/2012	ND	2.44	122	2.00	11.2	
<b>Total Xylenes*</b>	<b>9.60</b>	0.600	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIE) 217 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>746</b>	200	09/18/2012	ND	172	85.8	200	3.30	
<b>DRO &gt;C10-C28</b>	<b>14200</b>	200	09/18/2012	ND	173	86.6	200	1.53	

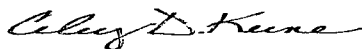
Surrogate: 1-Chlorooctane 134 % 65.2-140

Surrogate: 1-Chlorooctadecane 219 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/14/2012  
 Reported: 09/21/2012  
 Project Name: CEM TANK BATTERY  
 Project Number: 700794.051.01  
 Project Location: SEC.29 - T19S - R31E

 Sampling Date: 09/12/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BH - 5 6' (H202231-21)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.414</b>	0.200	09/20/2012	ND	2.25	113	2.00	9.99	
<b>Toluene*</b>	<b>1.93</b>	0.200	09/20/2012	ND	2.46	123	2.00	10.6	
<b>Ethylbenzene*</b>	<b>9.26</b>	0.200	09/20/2012	ND	2.44	122	2.00	11.2	
<b>Total Xylenes*</b>	<b>19.4</b>	0.600	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIC) 304 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>480</b>	16.0	09/18/2012	ND	400	100	400	7.69	
TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1370</b>	200	09/19/2012	ND	177	88.4	200	8.27	
<b>DRO &gt;C10-C28</b>	<b>15200</b>	200	09/19/2012	ND	172	86.1	200	12.5	

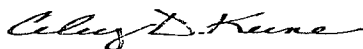
Surrogate: 1-Chlorooctane 190 % 65.2-140

Surrogate: 1-Chlorooctadecane 213 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/14/2012	Sampling Date:	09/12/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEM TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	700794.051.01	Sample Received By:	Jodi Henson
Project Location:	SEC.29 - T19S - R31E		

**Sample ID: BH - 5 8' (H202231-22)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	736	50.0	09/19/2012	ND	172	86.1	200	12.5	

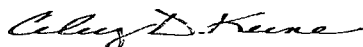
Surrogate: 1-Chlorooctane 80.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/14/2012	Sampling Date:	09/12/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEM TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	700794.051.01	Sample Received By:	Jodi Henson
Project Location:	SEC.29 - T19S - R31E		

**Sample ID: BH - 5 10' (H202231-23)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99		
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6		
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2		
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8		

Surrogate: 4-Bromofluorobenzene (PIB) 111 % 89.4-126.

Chloride, SM4500Cl-B		mg / kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	09/18/2012	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	865	50.0	09/19/2012	ND	172	86.1	200	12.5	

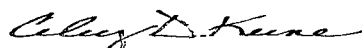
Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/14/2012  
Reported: 09/21/2012  
Project Name: CEM TANK BATTERY  
Project Number: 700794.051.01  
Project Location: SEC.29 - T19S - R31E

Sampling Date: 09/12/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH - 5 15' (H202231-24)**

BTEX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIB) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	389	50.0	09/19/2012	ND	172	86.1	200	12.5	

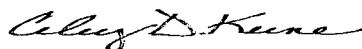
Surrogate: 1-Chlorooctane 78.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.7 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/14/2012  
Reported: 09/21/2012  
Project Name: CEM TANK BATTERY  
Project Number: 700794.051.01  
Project Location: SEC.29 - T19S - R31E

Sampling Date: 09/12/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH - 5 20' (H202231-25)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	128	50.0	09/19/2012	ND	172	86.1	200	12.5	

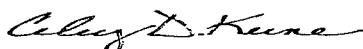
Surrogate: 1-Chlorooctane 76.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.0 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/14/2012  
Reported: 09/21/2012  
Project Name: CEM TANK BATTERY  
Project Number: 700794.051.01  
Project Location: SEC.29 - T19S - R31E

Sampling Date: 09/12/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BH - 5 30' (H202231-26)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIC) 98.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/18/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	12.6	10.0	09/19/2012	ND	172	86.1	200	12.5	

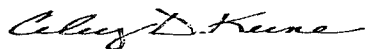
Surrogate: 1-Chlorooctane 77.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.5 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

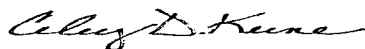
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
A-01	True Value for MS/MSD is 4000 (10 uL spike)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

1.3

Company Name: <u>Talon / LPE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Mike Stubbelfield</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>8015N TPH</div> <div>8021B BTEX</div> <div>Total chlorides</div> </div>											
Address: <u>408 West Texas Ave.</u>				Company: <u>Talon / LPE</u>															
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>				Attn:															
Phone #: <u>575-441-7254</u> Fax #:				Address:															
Project #: <u>700794.051.01</u> Project Owner: <u>Devon Energy Corp.</u>				City:															
Project Name: <u>CEM Tank battery</u>				State: Zip:															
Project Location: <u>Sec. 29-T195-R31E</u>				Phone #:															
Sampler Name: <u>Mike Stubbelfield</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(GRAB OR COMPO.) # CONTAINERS	MATRIX					PRESERV.			SAMPLING								
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME						
<u>H202231</u>																			
1	BH-1 0'	G			/				/			9/12/12	9:30A	/	/	/			
2	BH-1 2'	G			/				/			9/12/12	9:35A	/	/	/			
3	BH-1 4'	G			/				/			9/12/12	9:37A	/	/	/			
4	BH-1 6'	G			/				/			9/12/12	9:40A	/	/	/			
5	BH-2 0'	G			/				/			9/12/12	10:05A	/	/	/			
6	BH-2 2'	G			/				/			9/12/12	10:07A	/	/	/			
7	BH-2 4'	G			/				/			9/12/12	10:10A	/	/	/			
8	BH-2 6'	G			/				/			9/12/12	10:15A	/	/	/			
9	BH-3 0'	G			/				/			9/12/12	10:40A	/	/	/			
10	BH-3 2'	G			/				/			9/12/12	10:43A	/	/	/			
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																			
Relinquished By:		Date:	Received By:		Phone Result:		Fax Result:		Add'l Phone #:		REMARKS:								
<u>Mike Stubbelfield</u>		<u>9/14/12</u>	<u>Sharon Reed</u>		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Add'l Phone #:										
Relinquished By:		Date:	Received By:		Fax Result:		Add'l Fax #:		Add'l Fax #:										
Delivered By: (Circle One)		Sample Condition		CHECKED BY:															
Sampler - UPS - Bus <u>(Other)</u>		Cool Intact		<u>50</u>															
		Yes Yes																	
		No No																	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#26



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

2-3

Company Name: <u>Talon / LPE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																								
Project Manager: <u>Mike Stubblefield</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>8015M TRH</div> <div>8021B BTEX</div> <div>Total chlorides</div> </div>																								
Address: <u>400 West Texas Ave.</u>				Company:																												
City: <u>Alfredia</u> State: <u>NM</u> Zip: <u>88210</u>				Attn:																												
Phone #: <u>575-441-7254</u> Fax #:				Address:																												
Project #: <u>260294.051.01</u> Project Owner: <u>Devon Energy Corp.</u>				City:																												
Project Name: <u>CEM Tank battery</u>				State: Zip:																												
Project Location: <u>sec. 29 - T19S - R31E</u>				Phone #:																												
Sampler Name: <u>Mike Stubblefield</u>				Fax #:																												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME																		
<u>H202231</u>																																
<u>11</u>	<u>BH-3 4'</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>9/12/12</u>	<u>10:45A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>12</u>	<u>BH-3 6'</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>9/12/12</u>	<u>10:50A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>13</u>	<u>BH-4 0'</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>9/12/12</u>	<u>1:05P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>14</u>	<u>BH-4 2'</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>9/12/12</u>	<u>1:10P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>15</u>	<u>BH-4 4'</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>9/12/12</u>	<u>1:15P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>16</u>	<u>BH-4 6'</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>9/12/12</u>	<u>1:20P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>17</u>	<u>BH-4 8'</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>9/12/12</u>	<u>1:30P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>18</u>	<u>BH-5 0'</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>9/12/12</u>	<u>2:15P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>19</u>	<u>BH-5 2'</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>9/12/12</u>	<u>2:20P</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Mike Stubblefield</u>	Date: <u>9/14/12</u> Time: <u>2:53P</u>	Received By: <u>Shenna Reed</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - <u>Other</u>			REMARKS:
Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <u>[Signature]</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

3-3

Company Name: <u>Talon/LPE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																							
Project Manager: <u>Mike Stubblefield</u>				P.O. #:																											
Address: <u>408 West Texas Ave.</u>				Company: <u>Talon/LPE</u>																											
City: <u>Artista</u> State: <u>NM</u> Zip: <u>88210</u>				Attn:																											
Phone #: <u>505-441-7254</u> Fax #:				Address:																											
Project #: <u>700794-051-01</u> Project Owner: <u>Devon Energy Corp.</u>				City:																											
Project Name: <u>CEM Tank battery</u>				State: Zip:																											
Project Location: <u>sec. 29. T15S. R11E</u>				Phone #:																											
Sampler Name: <u>Mike Stubblefield</u>				Fax #:																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		8015 M TPH	80213 BTBT	Total chloride																
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE				TIME															
20	BH-5 4'	G			/					/			9/12/12	2:25P	/	/	/														
21	BH-5 6'	G			/					/			9/12/12	2:30P	/	/	/														
22	BH-5 8'	G			/					/			9/12/12	2:25P	/	/	/														
23	BH-5 10'	G			/					/			9/12/12	2:40P	/	/	/														
24	BH-5 15'	G			/					/			9/12/12	6:20P	/	/	/														
25	BH-5 20'	G			/					/			9/12/12	6:25P	/	/	/														
26	BH-5 30'	G			/					/			9/12/12	6:30P	/	/	/														

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Relinquished By: <u>Mike Stubblefield</u>		Date: <u>9/14/12</u>	Received By: <u>Shannon Reed</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <u>2:53P</u>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:		REMARKS:	
		Time:				
Delivered By: (Circle One)			Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - <u>Other:</u>			Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		<u>GR</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326