

HOBBS OCD

AUG 08 2013

RECEIVED

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 October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company - Legacy Reserves Operating, LP	Contact: Kevin Bracey
Address - PO Box 10848, Midland, TX 79702-7848	Telephone No. : (432) 221-6312
Facility Name - Lea Federal Unit #21	Facility Type: Tank Battery

Surface Owner:	Mineral Owner: Federal	Lease No. API # 30-025-37525
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	12	20S	34E	810'	North	810'	West	Lea

Latitude 32.589 N Longitude -103.521 W

**NATURE OF RELEASE**

Type of Release: Oil	Volume of Release 160 bbls	Volume Recovered 100 bbls
Source of Release : Hole in bottom of oil tank	Date and Hour of Occurrence 10/17/2012 @ 11:00	Date and Hour of Discovery 10/17/2012 at 11:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour :	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

A hole in the bottom of an oil tank caused a loss of 160 barrels of oil to be released inside the firewalls of the battery. All fluids were contained within the berm area. A vacuum truck was immediately called to the location and recovered 100 barrels of oil.

Describe Area Affected and Cleanup Action Taken.\* The impacted soil within the tank battery was excavated to a depth of 3-feet. A roustabout crew was used to hand dig around the tanks and flow lines taking great care not to compromise the structural integrity of the storage tanks. The excavated soil was transported to an NMOCD approved solid waste disposal facility. A mixture of Micro Blaze and water was spray-applied to the open excavation, sidewalls and at the base of the storage tanks. The excavated area was backfilled to grade using new caliche transported from a local borrow pit. The area was contoured to match the surrounding location and the berms were reconstructed.

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: <i>Kevin Bracey</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Kevin Bracey	Approved by District Supervisor:	
Title: Production Superintendent	Approval Date:	Expiration Date:
E-mail Address: <a href="mailto:kbracey@legacyp.com">kbracey@legacyp.com</a>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/2/2013 Phone: (432) 221-6312		

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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

Form C-141  
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company: Legacy Reserves Operating, LP	Contact: Berry Johnson
Address: PO Box 10848, Midland, TX 79702-7848	Telephone No.: 432-689-5200
Facility Name: Lea Federal Unit #21	Facility Type: Tank Battery

Surface Owner	Mineral Owner: Federal	API No. 30-025-37525
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	12	20S	34E	810'	North	810'	West	Lea

Latitude 32.589 Longitude 103.521

#### NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 160 bbls	Volume Recovered: 100 bbls
Source of Release: Hole in bottom of oil tank	Date and Hour of Occurrence: 10/17/12 at 11:00am	Date and Hour of Discovery 10/17/12 at 11:00am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

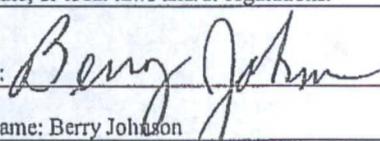
Hole in bottom of oil tank. Fluid contained within the firewalls. Widest point of the spill is around 50'X 40', the rest is around 10'X 150'. Recovered 100 bbls.

Describe Area Affected and Cleanup Action Taken.\*

All fluid contained within burn area. Contacted Talon Environmental to begin remediation.

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.

#### OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:	
Printed Name: Berry Johnson	Approval Date:	Expiration Date:
Title: Operations Superintendent	Conditions of Approval:	
E-mail Address: <a href="mailto:bjohnson@legacyp.com">bjohnson@legacyp.com</a>	Attached <input type="checkbox"/>	
Date: 10/22/2012	Phone: 432-689-5200	

\* Attach Additional Sheets If Necessary



July 2, 2013

HOBBS OCD

AUG 08 2013

RECEIVED

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

Mr. Geoffrey Leking  
**NMOCD District 1**  
1625 N. French Drive  
Hobbs, NM 88240

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

Subject: **Remediation and Closure Report**  
Legacy Reserves Operating, LP  
Lea Federal Unit #21  
API # 30-025-37525

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

Dear Mr. Leking,

Legacy Reserves Operating, LP has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the Lea Federal Central Tank Battery release. The results of our soil assessment, completed remediation activities and closure request are submitted herein.

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

#### Incident Date

October 17, 2012

OKLAHOMA CITY  
7700 North Hudson Avenue  
Suite 10  
Oklahoma City, Oklahoma 73116  
Phone 405.486.7030  
Fax 806.467.0622

#### Background Information

The Lea Federal Central Tank Battery is located approximately forty-nine (49) miles northeast of Carlsbad, New Mexico. The legal location for the site is Section 12, Township 20 South and Range 34 East in Lea County, New Mexico. More specifically, the latitude and longitude for the release are 32.589 North and -103.521 West.

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

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 Wink Fine Sand. The local surface and shallow geology is Quaternary in Age with sedimentary deposits which are comprised of calcareous-loamy alluvium and calcareous-loamy eolian sands, including silty soils underlain by sedimentary rock and hard caliche. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S24-T20S-R34E. The ground water in Section 24 is reported to be at depth of 270' below ground surface (bgs). The referenced groundwater data is attached.

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

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

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

Toll Free: 866.742.0742  
www.talonlpe.com

### **Incident Description**

A hole in the bottom of an oil tank caused a loss of 160 barrels of oil to be released inside the firewalls of the battery. All fluids were contained within the bermed area. A vacuum truck was immediately called to the location and recovered 100 barrels of oil.

### **Remedial Actions**

On April 30, 2013 Talon personnel mobilized to the site to begin excavation of the impacted area inside the tank battery in accordance with the work plan. (Appendix I) The impacted soil within the tank battery was excavated to a depth of 3-feet. A roustabout crew was used to hand dig around the tanks and flow lines taking great care not to compromise the structural integrity of the storage tanks. The excavated soil was transported to an NMOCD approved solid waste disposal facility, Lea Land LLC.

A mixture of Micro Blaze and water was prepared per manufacture's specifications and spray-applied to the open excavation, sidewalls and at the base of the storage tanks.

The excavated area was backfilled to grade using new caliche transported from a local borrow pit. The area was contoured to match the surrounding location and the tank battery berms were reconstructed.

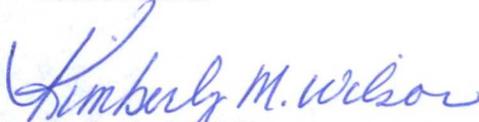
### **Closure**

On behalf of Legacy Reserves Operating LP, we respectfully request that no further actions be required and that closure with respect to this release be granted.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

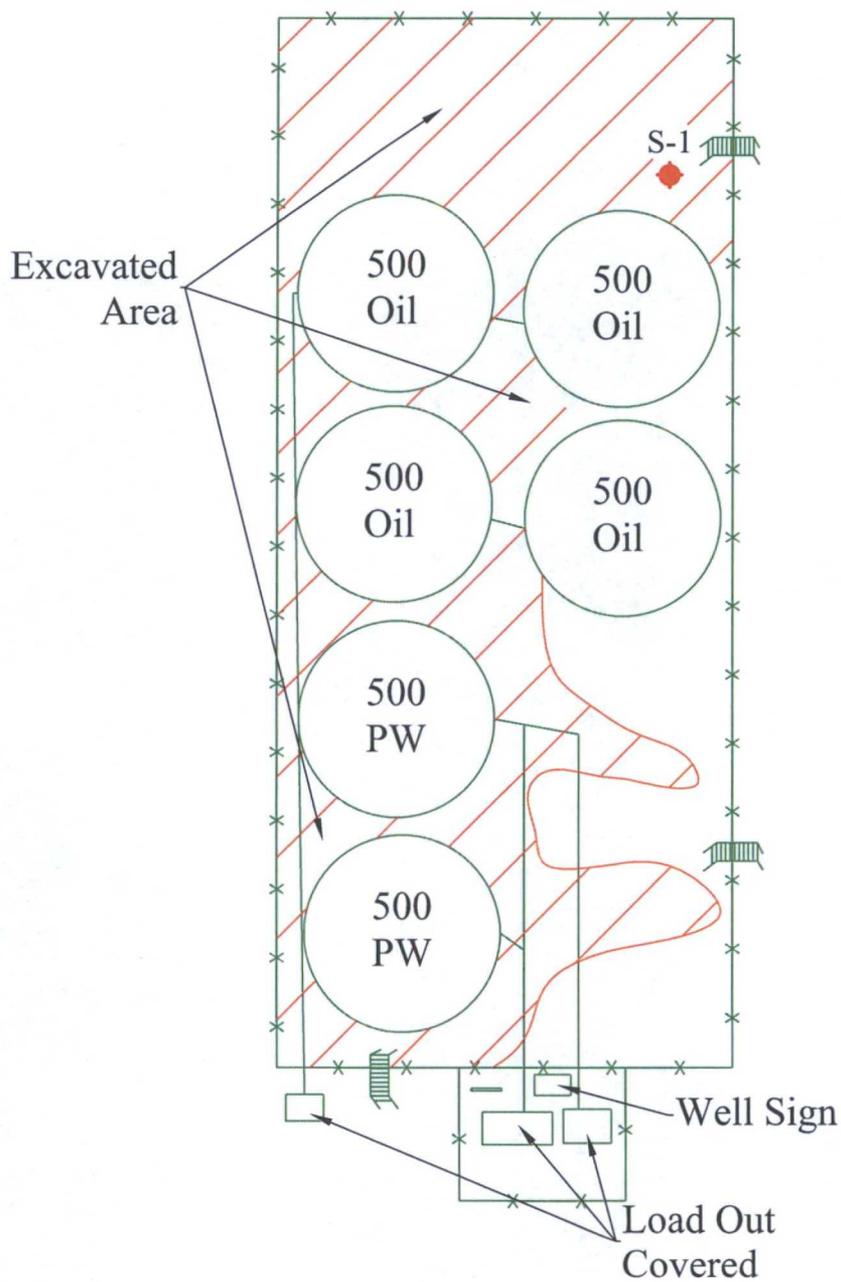
TALON/LPE



Kimberly M. Wilson  
Project Manager



David J. Adkins  
District Manager



Legend	
◆	- Sample Location



Date: 07/02/2013  
 Scale: 1" = 20'  
 Drawn By: TJS

Lea Federal Central Tank Battery - West  
 Legacy Reserves Operating, LP  
 Lea County, New Mexico  
 Figure 1 - Site Plan



December 18, 2012

Mr. Geoffrey Leking  
**NMOCD District 1**  
1625 N. French Drive  
Hobbs, NM 88240

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

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Subject: **Soil Assessment and Remediation Work Plan**  
Legacy Reserves Operating, LP  
Lea Federal Unit #21  
API # 30-025-37525

Dear Mr. Leking,

Legacy Reserves Operating, LP has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the Lea Federal Central Tank Battery release. Talon's site assessment, soil sampling results and proposed work plan to perform remediation activities consist of the following:

**Incident Date**

October 17, 2012

**Background Information**

The Lea Federal Central Tank Battery is located approximately forty-nine (49) miles northeast of Carlsbad, New Mexico. The legal location for the site is Section 12, Township 20 South and Range 34 East in Lea County, New Mexico. More specifically, the latitude and longitude for the release are 32.589 North and -103.521 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 Wink Fine Sand. The local surface and shallow geology is Quaternary in Age with sedimentary deposits which are comprised of calcareous-loamy alluvium and calcareous-loamy eolian sands, including silty soils underlain by sedimentary rock and hard caliche. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S24-T20S-R34E. The ground water in Section 24 is reported to be at depth of 270' 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'

Toll Free: 866.742.0742  
www.talonlpe.com

### Incident Description

A hole in the bottom of an oil tank caused a loss of 160 barrels of oil to be released inside the firewalls of the battery. All fluids were contained within the bermed area. A vacuum truck was immediately called to the location and recovered 100 barrels of oil.

### Sampling Activities

On October 22, 2012 Talon mobilized personnel to begin soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a hand auger from the surface of the impacted areas.

On December 5, 2012 Talon personnel returned to the site to collect additional soil samples utilizing a backhoe for further vertical delineation. Grab soil samples were collected from a depth of 3-feet to 10-feet deep.

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

### Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

November 29, 2012

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
S-1	0.75'	1322	7000	8830
	1'	356.32	8200	8850

December 13, 2012

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
S-1	3'	289.87	2480	5380
	4'	0.674	160	394.2
	6'	2.681	496	443
	8'	<0.150	64	40.2
	10'	<0.150	<16	<10

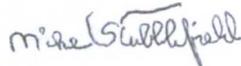
### Proposed Remedial Actions

- The impacted soil will be excavated to a depth of approximately 3-feet deep. Care will be taken not to compromise the structural integrity of the storage tanks. The excavated soil will be transported to an NMOCD approved solid waste disposal facility.
- A mixture of Micro Blaze and water will be spray-applied to the open excavation, sidewalls and at the base of the storage tanks.
- The excavated area will be backfilled to grade using new caliche transported from a local borrow pit. The area will be contoured to match the surrounding location.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Hobbs Office including Form C-141.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

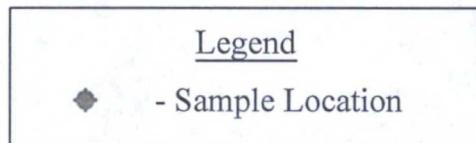
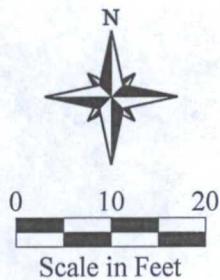
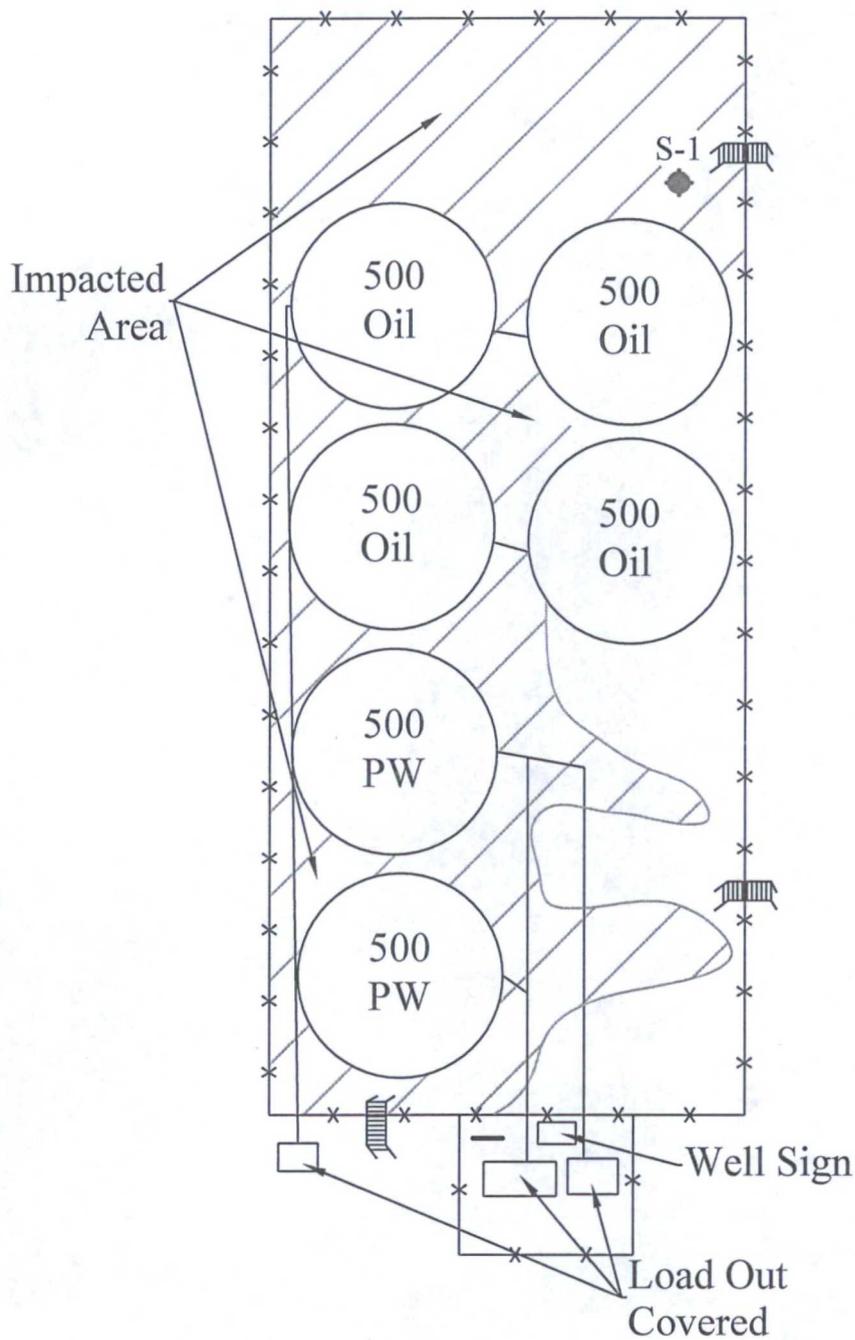
TALON/LPE



Mike Stubblefield  
Project Manager



David J. Adkins  
District Manager



Date: 12/11/2012  
 Scale: 1" = 20'  
 Drawn By: TJS

Lea Federal Central Tank Battery - West  
 Legacy Reserves Operating, LP  
 Lea County, New Mexico  
 Figure 1 - Site Plan



# 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 Q Q			X	Y	Depth	Depth	Water		
				64	16	4			Sec	Tws	Rng	Well	Water
<u>CP 00665</u>			LE	1	4	24	20S	34E	639740	3603128*	698	270	428
<u>CP 00750</u>			LE	3	4	07	20S	34E	631639	3605834*	320		

Average Depth to Water: **270 feet**

Minimum Depth: **270 feet**

Maximum Depth: **270 feet**

**Record Count: 2**

**PLSS Search:**

Township: 20S

Range: 34E

\*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.



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

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October 26, 2012

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LEA FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/24/12 15:40.

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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/24/2012	Sampling Date:	10/22/2012
Reported:	10/26/2012	Sampling Type:	Soil
Project Name:	LEA FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.062.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

**Sample ID: S-1 0.75' (H202589-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>22.3</b>	5.00	10/25/2012	ND	1.76	87.9	2.00	0.815	
<b>Toluene*</b>	<b>137</b>	5.00	10/25/2012	ND	1.92	95.9	2.00	1.02	
<b>Ethylbenzene*</b>	<b>62.3</b>	5.00	10/25/2012	ND	1.89	94.4	2.00	0.726	
<b>Total Xylenes*</b>	<b>159</b>	15.0	10/25/2012	ND	5.72	95.3	6.00	0.867	
<b>Total BTEX</b>	<b>381</b>	30.0	10/25/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 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>7000</b>	16.0	10/25/2012	ND	416	104	400	3.77	

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>3420</b>	50.0	10/25/2012	ND	195	97.7	200	2.56		
<b>DRO &gt;C10-C28</b>	<b>5410</b>	50.0	10/25/2012	ND	216	108	200	9.52		

Surrogate: 1-Chlorooctane 211 % 65.2-140

Surrogate: 1-Chlorooctadecane 166 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/24/2012	Sampling Date:	10/22/2012
Reported:	10/26/2012	Sampling Type:	Soil
Project Name:	LEA FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.062.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

**Sample ID: S-1 1.0' (H202589-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.92	2.50	10/25/2012	ND	1.76	87.9	2.00	0.815	
Toluene*	51.8	5.00	10/25/2012	ND	1.92	95.9	2.00	1.02	
Ethylbenzene*	30.0	5.00	10/25/2012	ND	1.89	94.4	2.00	0.726	
Total Xylenes*	91.6	15.0	10/25/2012	ND	5.72	95.3	6.00	0.867	
<b>Total BTEX</b>	<b>178</b>	<b>30.0</b>	<b>10/25/2012</b>	<b>ND</b>					

Surrogate: 4-Bromofluorobenzene (PIC) 117 % 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	8200	16.0	10/25/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						<b>S-06</b>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2580	50.0	10/25/2012	ND	195	97.7	200	2.56		
DRO >C10-C28	6270	50.0	10/25/2012	ND	216	108	200	9.52		

Surrogate: 1-Chlorooctane 154 % 65.2-140

Surrogate: 1-Chlorooctadecane 182 % 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.
- 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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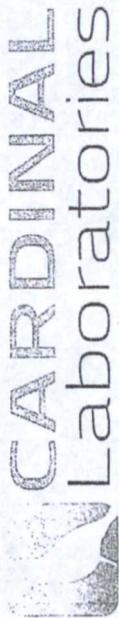
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> FAVOR LPE <b>Project Manager:</b> DAVID ADKINS <b>Address:</b> 400 W. TEXAS AVE. <b>City:</b> Artesia <b>State:</b> NM <b>Zip:</b> 88211 <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> 701047.062.01 <b>Project Owner:</b> Legacy <b>Project Name:</b> Lea Federal Tank Site #3 <b>Project Location:</b> <b>Sampler Name:</b> DAVID ADKINS		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b> Sample I.D. H202589 1 S-1 0.75' 2 S-1 1.0'		<b>MATRIX</b> # CONTAINERS (G)RAB OR (C)OMP. 1 GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>PRESERV.</b> ACID/BASE: ✓ ICE / COOL: ✓ OTHER:	
		<b>SAMPLING</b> DATE: 10/22/12 1400 TIME: 1415		TPH BTEX Chlorides	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether: 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 services. 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.

<b>Relinquished By:</b> 	<b>Date:</b> 10/24/12 <b>Time:</b> 09:00 <b>Received By:</b> mads... <b>Date:</b> 10/24/12 <b>Time:</b> 5:40 <b>Received By:</b> David Adkins	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Add'l Fax #:</b>
<b>Relinquished By:</b> mads... <b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other		<b>REMARKS:</b>
<b>Sample Condition</b> Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		<b>CHECKED BY:</b> (Initials) GA

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

December 13, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LEA FEDERAL CENTRAL TANK BATTERY WEST

Enclosed are the results of analyses for samples received by the laboratory on 12/07/12 13:40.

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:	12/07/2012	Sampling Date:	12/05/2012
Reported:	12/13/2012	Sampling Type:	Soil
Project Name:	LEA FEDERAL CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.062.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 12 - T20S - R34E		

**Sample ID: S - 1 3' (H202949-01)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.37</b>	0.200	12/13/2012	ND	2.05	102	2.00	5.24	
<b>Toluene*</b>	<b>41.0</b>	0.200	12/13/2012	ND	2.22	111	2.00	5.18	
<b>Ethylbenzene*</b>	<b>25.5</b>	0.200	12/13/2012	ND	2.16	108	2.00	5.33	
<b>Total Xylenes*</b>	<b>77.0</b>	0.600	12/13/2012	ND	6.51	109	6.00	5.20	
<b>Total BTEX</b>	<b>145</b>	1.20	12/13/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 338 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2480</b>	16.0	12/12/2012	ND	448	112	400	3.64	

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>1510</b>	50.0	12/10/2012	ND	183	91.4	200	3.20	
<b>DRO &gt;C10-C28</b>	<b>3870</b>	50.0	12/10/2012	ND	199	99.3	200	5.48	

Surrogate: 1-Chlorooctane 154 % 65.2-140

Surrogate: 1-Chlorooctadecane 147 % 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:	12/07/2012	Sampling Date:	12/05/2012
Reported:	12/13/2012	Sampling Type:	Soil
Project Name:	LEA FEDERAL CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.062.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 12 - T20S - R34E		

**Sample ID: S - 1 4' (H202949-02)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2012	ND	2.05	102	2.00	5.24		
<b>Toluene*</b>	<b>0.056</b>	0.050	12/13/2012	ND	2.22	111	2.00	5.18		
Ethylbenzene*	<0.050	0.050	12/13/2012	ND	2.16	108	2.00	5.33		
<b>Total Xylenes*</b>	<b>0.281</b>	0.150	12/13/2012	ND	6.51	109	6.00	5.20		
<b>Total BTEX</b>	<b>0.337</b>	0.300	12/13/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 127 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	12/12/2012	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>20.2</b>	10.0	12/10/2012	ND	183	91.4	200	3.20		
<b>DRO &gt;C10-C28</b>	<b>374</b>	10.0	12/10/2012	ND	199	99.3	200	5.48		

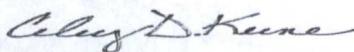
Surrogate: 1-Chlorooctane 88.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 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:	12/07/2012	Sampling Date:	12/05/2012
Reported:	12/13/2012	Sampling Type:	Soil
Project Name:	LEA FEDERAL CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.062.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 12 - T20S - R34E		

**Sample ID: S - 1 6' (H202949-03)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/12/2012	ND	2.05	102	2.00	5.24		
Toluene*	<b>0.063</b>	0.050	12/12/2012	ND	2.22	111	2.00	5.18		
Ethylbenzene*	<b>0.238</b>	0.050	12/12/2012	ND	2.16	108	2.00	5.33		
Total Xylenes*	<b>1.04</b>	0.150	12/12/2012	ND	6.51	109	6.00	5.20		
<b>Total BTEX</b>	<b>1.34</b>	0.300	12/12/2012	ND						

Surrogate: 4-Bromofluorobenzene (PID) 173 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>496</b>	16.0	12/12/2012	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>46.0</b>	10.0	12/10/2012	ND	183	91.4	200	3.20		
<b>DRO &gt;C10-C28</b>	<b>397</b>	10.0	12/10/2012	ND	199	99.3	200	5.48		

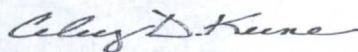
Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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:	12/07/2012	Sampling Date:	12/05/2012
Reported:	12/13/2012	Sampling Type:	Soil
Project Name:	LEA FEDERAL CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.062.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 12 - T20S - R34E		

**Sample ID: S - 1 8' (H202949-04)**

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	12/12/2012	ND	2.05	102	2.00	5.24	
Toluene*	<0.050	0.050	12/12/2012	ND	2.22	111	2.00	5.18	
Ethylbenzene*	<0.050	0.050	12/12/2012	ND	2.16	108	2.00	5.33	
Total Xylenes*	<0.150	0.150	12/12/2012	ND	6.51	109	6.00	5.20	
Total BTEX	<0.300	0.300	12/12/2012	ND					

*Surrogate: 4-Bromofluorobenzene (PID)*    118 %    89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	12/12/2012	ND	448	112	400	3.64	

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	12/10/2012	ND	183	91.4	200	3.20	
<b>DRO &gt;C10-C28</b>	<b>40.2</b>	10.0	12/10/2012	ND	199	99.3	200	5.48	

*Surrogate: 1-Chlorooctane*    84.1 %    65.2-140

*Surrogate: 1-Chlorooctadecane*    94.5 %    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:	12/07/2012	Sampling Date:	12/05/2012
Reported:	12/13/2012	Sampling Type:	Soil
Project Name:	LEA FEDERAL CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.062.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 12 - T20S - R34E		

**Sample ID: S - 1 10' (H202949-05)**

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	12/12/2012	ND	2.05	102	2.00	5.24	
Toluene*	<0.050	0.050	12/12/2012	ND	2.22	111	2.00	5.18	
Ethylbenzene*	<0.050	0.050	12/12/2012	ND	2.16	108	2.00	5.33	
Total Xylenes*	<0.150	0.150	12/12/2012	ND	6.51	109	6.00	5.20	
Total BTEX	<0.300	0.300	12/12/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2012	ND	448	112	400	3.64	

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	12/10/2012	ND	183	91.4	200	3.20	
DRO >C10-C28	<10.0	10.0	12/10/2012	ND	199	99.3	200	5.48	

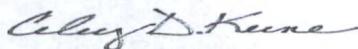
Surrogate: 1-Chlorooctane 89.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 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.
- 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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Cardinal Laboratories

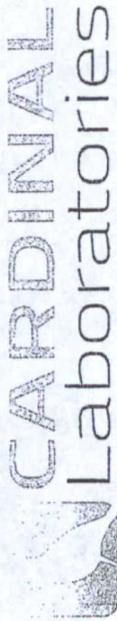
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---

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

<b>Company Name:</b> Talon/LPE <b>Project Manager:</b> David Adams <b>Address:</b> 402 West Teton Ave. <b>City:</b> Artesia <b>State:</b> N.M. <b>Zip:</b> 88210 <b>Phone #:</b> _____ <b>Fax #:</b> _____ <b>Project #:</b> 701047.062.01 <b>Project Owner:</b> Legacy Res. <b>Project Name:</b> Lca Federal Central Tank Battery West <b>Project Location:</b> sec. 12 - T205-R34E <b>Sampler Name:</b> Mike Woodard		<b>BILL TO</b> <b>P.O. #:</b> _____ <b>Company:</b> Talon/LPE <b>Attn:</b> _____ <b>Address:</b> _____ <b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____ <b>Phone #:</b> _____ <b>Fax #:</b> _____		<b>ANALYSIS REQUEST</b> Total Chlorides 80213 GTEX 8015M TPH									
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME
1	5-1 3'	G		/	/	/	/	/	/	/		12/15/12	4:38P
2	5-1 4'	G		/	/	/	/	/	/	/		12/15/12	4:42P
3	5-1 6'	G		/	/	/	/	/	/	/		12/15/12	4:45P
4	5-1 8'	G		/	/	/	/	/	/	/		12/15/12	4:53P
5	5-1 10'	G		/	/	/	/	/	/	/			

**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 services. 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 causes or otherwise.

Relinquished By: Mike Woodard  
 Relinquished By: David Adams  
 Date: 12/17/12 Received By: David Adams  
 Time: 1:40  
 Date: \_\_\_\_\_ Received By: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One) 50  
 Sampler - UPS - Bus - Other: \_\_\_\_\_

Sample Condition  
 Cool Intact:  Yes  No  
 Checked By: DA

Phone Result:  Yes  No  Add'l Phone #:  
 Fax Result:  Yes  No  Add'l Fax #:  
 REMARKS: