



**RECEIVED**

By OCD; Dr. Oberding at 9:25 am, Mar 05, 2015

February 27, 2014

**APPROVED**

By OCD; Dr. Oberding at 9:25 am, Mar 05, 2015

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

Mr. Tomas Oberding  
NMOCD District I  
1625 N. French Dr.  
Hobbs, NM 88240

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

Subject: **Soil Assessment and Remediation Work Plan**  
Oxy USA Inc.  
Red Tank 34 Federal #13  
API: 30-025-32761 – 1RP-3539

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

Dear Mr. Bratcher,

Oxy USA Inc., (Oxy) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

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

**Background Information**

The Red Tank 34 Federal No. 13 is located approximately 47 miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, Section 34, Township 22 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.3542072666 North and -103.667914959212 West. A site plan is presented in Appendix I.

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

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 soils and dune land with 0 to 12 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils under lain by dense caliche layers. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S3-T23S-R32E. The ground water in Section 3 is reported to be a depth of 360' below ground surface (bgs). The referenced groundwater data is presented in Appendix II.

SAN ANTONIO  
13111 Lookout Way  
San Antonio, Texas 78233  
Phone 210.265.8025  
Fax 210.568.2191

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

ENVIRONMENTAL CONSULTING	Depth to ground water	<50'
ENGINEERING	Wellhead Protection Area	>1000'
DRILLING	Distance to surface water body	>1000'
CONSTRUCTION		
SPILL MANAGEMENT		
GENERAL CONTRACTING		

## Incident Description

The nipple failed on the wellhead due to internal corrosion causing a release of 3 barrels of oil and 10 barrels of produced water. No fluids were recovered. All fluids remained on location surrounding the wellhead. Talon mobilized personnel to conduct a site assessment and conduct soil sampling activities utilizing a hand auger. The results of our soil sampling activities are summarized in the table below.

## Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
<b>S-1</b>	0'	3.05	26400	237	1860
	1'	<0.300	10500	<10	18.0
	2'	<0.300	10700	<10	<10
	3'	<0.300	5730	<10	<10
	4'	<0.300	1840	<10	<10
<b>S-2</b>	0'	<0.300	32800	<10	<10
	1'	<0.300	6960	<10	<10
	2'	<0.300	192	<10	<10
	3'	<0.300	192	<10	<10
	4'	<0.300	256	<10	<10
<b>S-3</b>	0'	0.534	32400	18.5	1060
	1'	<0.300	2800	<10	<10
	2'	<0.300	512	<10	<10
	3'	<0.300	576	<10	<10
	4'	<0.300	1070	<10	<10
<b>S-4</b>	0'	<0.300	4240	<10	107
	0.5'	<0.300	<16	<10	<10
	1'	<0.300	<16	<10	<10
	2'	<0.300	32	<10	<10
	3'	<0.300	32	<10	<10

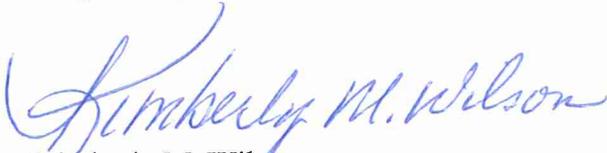
Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for Chlorides.

## Proposed Remedial Actions

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 4-feet deep. The impacted areas in the vicinity of S-2 and S-3 will be excavated to a depth of 2-feet deep. The impacted area in the vicinity of S-4 will also be scrapped 0.5-feet deep.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated areas will be backfilled with new caliche and re-contoured to match the surrounding location.

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,



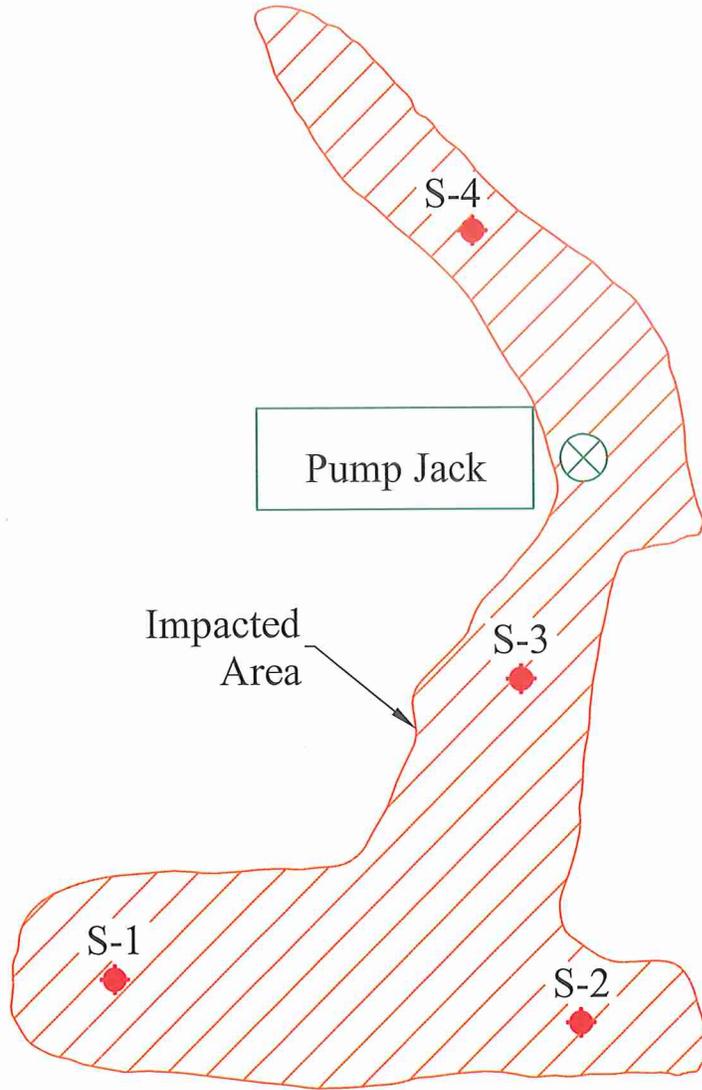
Kimberly M. Wilson  
Project Manager



David J. Adkins  
District Manager

**APPENDIX I**

**SITE MAP**



Scale in Feet

Legend  
◆ - Sample Location



Date: 02/16/2015

Scale: 1" = 20'

Drawn By: TJS

Red Tank 34 Fed #13  
Oxy - NM - North  
Lea County, New Mexico  
Figure 1 - Site Plan

**APPENDIX II**  
**GROUNDWATER DATA**  
**INITIAL C-141**



# 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 Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 02349</a>			ED	2	3	03	23S	32E		625678	3578004*	2557	525		
<a href="#">C 02096</a>			ED	2	3	14	22S	32E		627204	3584464*	4462	435	360	75
<a href="#">C 02821</a>	C	LE		2	2	3	14	22S	32E	627303	3584563*	4596	540	340	200

Average Depth to Water: **350 feet**  
 Minimum Depth: **340 feet**  
 Maximum Depth: **360 feet**

Record Count: 3

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 625144

**Northing (Y):** 3580505

**Radius:** 5000

\*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.

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

Form C-141  
Revised August 8, 2011

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: <b>OXY USA Inc.</b>	Contact: <b>Chris Jones</b>
Address: <b>102 S. Main St. Carlsbad, NM 88220</b>	Telephone No.: <b>575-628-4121</b>
Facility Name: <b>Red Tank 34 Federal #13</b>	Facility Type: <b>Well</b>

Surface Owner: <b>Federal</b>	Mineral Owner:	API No.: <b>30-025-32761</b>
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#### LOCATION OF RELEASE

Unit Letter <b>D</b>	Section <b>34</b>	Township <b>22S</b>	Range <b>32E</b>	Feet from the <b>410'</b>	North/South Line <b>North</b>	Feet from the <b>990'</b>	East/West Line <b>West</b>	County <b>Lea</b>
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Latitude 32.5645954 N Longitude -104.1504613 W

#### NATURE OF RELEASE

Type of Release: <b>Mixed Fluids</b>	Volume of Release: <b>3 bbls Oil &amp; 10 bbls PW</b>	Volume Recovered: <b>0 bbls</b>
Source of Release: <b>Nipple on wellhead failure</b>	Date and Hour of Occurrence <b>2/11/2015</b>	Date and Hour of Discovery <b>2/11/2015 @ 8:00 am</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Mike Bratcher &amp; Heather Patterson @ NMOCD Jim Amos @ BLM</b>	
By Whom? <b>Kimberly Wilson</b>	Date and Hour: <b>2/18/2015</b>	
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.\* **The nipple on the wellhead failed due to internal corrosion causing a release of 3 barrels of oil and 10 barrels of produced water. No fluids were recovered. Talon/LPE was contracted to perform an initial site assessment and soil sampling.**

Describe Area Affected and Cleanup Action Taken.\*  
**The area affected is around the wellhead measuring approximately 30'x50'.**

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: <b>Chris Jones</b> <small>Digitally signed by Chris Jones DN: cn=Chris Jones, o=ou, email=ckjones888@yahoo.com, c=US Date: 2015.02.18 13:03:35 -0600</small>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Chris Jones</b>	Approved by Environmental Specialist:	
Title: <b>HES Specialist</b>	Approval Date:	Expiration Date:
E-mail Address: <b>Christopher.Jones@oxy.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>2/18/2015</b> Phone: <b>575-628-4121</b>		

\* Attach Additional Sheets If Necessary

**APPENDIX III**  
**LABORATORY RESULTS**

February 18, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RED TANK 34 FED #13

Enclosed are the results of analyses for samples received by the laboratory on 02/12/15 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 0' (H500413-01)**

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	02/14/2015	ND	1.64	82.1	2.00	10.0		
<b>Toluene*</b>	<b>0.513</b>	0.050	02/14/2015	ND	1.59	79.6	2.00	10.4		
<b>Ethylbenzene*</b>	<b>0.456</b>	0.050	02/14/2015	ND	1.53	76.7	2.00	9.83		
<b>Total Xylenes*</b>	<b>2.08</b>	0.150	02/14/2015	ND	4.54	75.7	6.00	10.2		
<b>Total BTEX</b>	<b>3.05</b>	0.300	02/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

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>26400</b>	16.0	02/13/2015	ND	416	104	400	3.77		

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>237</b>	50.0	02/17/2015	ND	210	105	200	0.411		
<b>DRO &gt;C10-C28</b>	<b>1860</b>	50.0	02/17/2015	ND	196	98.0	200	2.19		

Surrogate: 1-Chlorooctane 132 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 52.1-176

Cardinal Laboratories

\* = Accredited Analyte

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 1' (H500413-02)**

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	02/14/2015	ND	1.64	82.1	2.00	10.0		
Toluene*	<0.050	0.050	02/14/2015	ND	1.59	79.6	2.00	10.4		
Ethylbenzene*	<0.050	0.050	02/14/2015	ND	1.53	76.7	2.00	9.83		
Total Xylenes*	<0.150	0.150	02/14/2015	ND	4.54	75.7	6.00	10.2		
Total BTEX	<0.300	0.300	02/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.0 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10500	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/17/2015	ND	210	105	200	0.411		
DRO >C10-C28	18.0	10.0	02/17/2015	ND	196	98.0	200	2.19		

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 2' (H500413-03)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PII)* 97.6 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>10700</b>	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/17/2015	ND	210	105	200	0.411		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19		

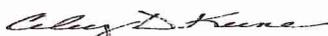
*Surrogate: 1-Chlorooctane* 115 % 47.2-157

*Surrogate: 1-Chlorooctadecane* 122 % 52.1-176

Cardinal Laboratories

\* = Accredited Analyte

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 3' (H500413-04)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2	
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8	
Total BTEX	<0.300	0.300	02/16/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PIE) 96.7 % 61-154*

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>5730</b>	16.0	02/13/2015	ND	416	104	400	3.77	

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	02/17/2015	ND	210	105	200	0.411	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19	

*Surrogate: 1-Chlorooctane 120 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 126 % 52.1-176*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 DAVID ADKINS  
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 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 4' (H500413-05)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PID 95.2 % 61-154)*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1840</b>	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/17/2015	ND	210	105	200	0.411		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19		

*Surrogate: 1-Chlorooctane 117 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 121 % 52.1-176*

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 0' (H500413-06)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2	
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8	
Total BTEX	<0.300	0.300	02/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32800	16.0	02/13/2015	ND	416	104	400	3.77	

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	02/17/2015	ND	210	105	200	0.411	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19	

Surrogate: 1-Chlorooctane 113 % 47.2-157

Surrogate: 1-Chlorooctadecane 117 % 52.1-176

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 Fax To: (575) 745-8905

Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 1' (H500413-07)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PII) 95.2 % 61-154*

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>6960</b>	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/17/2015	ND	210	105	200	0.411		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19		

*Surrogate: 1-Chlorooctane 124 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 128 % 52.1-176*

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**Analytical Results For:**

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 Fax To: (575) 745-8905

Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 2' (H500413-08)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.0 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/17/2015	ND	210	105	200	0.411		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19		

Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 3' (H500413-09)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PIE)* 96.7% 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>192</b>	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/17/2015	ND	210	105	200	0.411		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19		

*Surrogate: 1-Chlorooctane* 121% 47.2-157

*Surrogate: 1-Chlorooctadecane* 121% 52.1-176

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 Fax To: (575) 745-8905

Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 4' (H500413-10)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 95.5 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/17/2015	ND	210	105	200	0.411		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19		

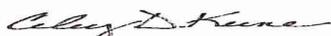
Surrogate: 1-Chlorooctane 116 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

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**Analytical Results For:**

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

Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 0' (H500413-11)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<b>0.171</b>	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<b>0.067</b>	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<b>0.295</b>	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<b>0.534</b>	0.300	02/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>32400</b>	16.0	02/13/2015	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<b>18.5</b>	10.0	02/17/2015	ND	201	101	200	3.26		
DRO >C10-C28	<b>1060</b>	10.0	02/17/2015	ND	187	93.5	200	4.78		

Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 137 % 52.1-176

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

Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 1' (H500413-12)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PII) 93.2 % 61-154*

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>2800</b>	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/17/2015	ND	210	105	200	0.411		
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19		

*Surrogate: 1-Chlorooctane 122 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 128 % 52.1-176*

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 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 2' (H500413-13)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2	
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8	
Total BTEX	<0.300	0.300	02/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/13/2015	ND	416	104	400	3.77	

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	02/17/2015	ND	210	105	200	0.411	
DRO >C10-C28	<10.0	10.0	02/17/2015	ND	196	98.0	200	2.19	

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 3' (H500413-14)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PII) 95.7 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/16/2015	10.2	194	96.9	200	1.16		
DRO >C10-C28	<10.0	10.0	02/16/2015	ND	187	93.6	200	0.248		

Surrogate: 1-Chlorooctane 92.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.4 % 52.1-176

Cardinal Laboratories

\* = Accredited Analyte

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 4' (H500413-15)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2	
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8	
Total BTEX	<0.300	0.300	02/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 95.5 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>1070</b>	16.0	02/13/2015	ND	416	104	400	3.77	

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	02/16/2015	10.2	194	96.9	200	1.16	
DRO >C10-C28	<10.0	10.0	02/16/2015	ND	187	93.6	200	0.248	

Surrogate: 1-Chlorooctane 86.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.0 % 52.1-176

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\* = Accredited Analyte

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 0' (H500413-16)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 94.2 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	02/13/2015	ND	416	104	400	3.77		

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	02/16/2015	10.2	194	96.9	200	1.16		
DRO >C10-C28	107	10.0	02/16/2015	ND	187	93.6	200	0.248		

Surrogate: 1-Chlorooctane 92.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.5 % 52.1-176

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 0.5' (H500413-17)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2	
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8	
Total BTEX	<0.300	0.300	02/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 61-154

Chloride, SM4500Cl-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	02/13/2015	ND	416	104	400	3.77	

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	02/16/2015	10.2	194	96.9	200	1.16	
DRO >C10-C28	<10.0	10.0	02/16/2015	ND	187	93.6	200	0.248	

Surrogate: 1-Chlorooctane 91.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.9 % 52.1-176

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\*=Accredited Analyte

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 1' (H500413-18)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2	
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8	
Total BTEX	<0.300	0.300	02/16/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 61-154*

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	02/13/2015	ND	416	104	400	3.77	

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	02/16/2015	10.2	194	96.9	200	1.16	
DRO >C10-C28	<10.0	10.0	02/16/2015	ND	187	93.6	200	0.248	

*Surrogate: 1-Chlorooctane 94.2 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 96.3 % 52.1-176*

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 2' (H500413-19)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2		
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8		
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2		
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8		
Total BTEX	<0.300	0.300	02/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 97.4 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	02/16/2015	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	02/16/2015	10.2	194	96.9	200	1.16		
DRO >C10-C28	<10.0	10.0	02/16/2015	ND	187	93.6	200	0.248		

Surrogate: 1-Chlorooctane 93.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.1 % 52.1-176

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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:	02/12/2015	Sampling Date:	02/12/2015
Reported:	02/18/2015	Sampling Type:	Soil
Project Name:	RED TANK 34 FED #13	Sampling Condition:	Cool & Intact
Project Number:	700608.411.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 3' (H500413-20)**

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	02/16/2015	ND	1.61	80.3	2.00	16.2	
Toluene*	<0.050	0.050	02/16/2015	ND	1.56	78.2	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/16/2015	ND	1.46	73.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	02/16/2015	ND	4.33	72.1	6.00	18.8	
Total BTEX	<0.300	0.300	02/16/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 61-154*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/16/2015	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	02/16/2015	10.2	194	96.9	200	1.16	
DRO >C10-C28	<10.0	10.0	02/16/2015	ND	187	93.6	200	0.248	

*Surrogate: 1-Chlorooctane 93.1 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 95.6 % 52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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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Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

161012

Company Name: Talon/LPE		P.O. #: <u>978</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
Project Manager: <u>D. Adkins</u>		Company: <u>Talon/LPE</u>									
Address: 408 W. Texas Ave.		Attn:									
City: Artesia		State: NM Zip: 88210									
Phone #: 575-746-8768		Fax #: 575-746-8905		Address:							
Project #: <u>700 bog. 411.01</u>		Project Owner: <u>DCY</u>		City:							
Project Name: <u>Red Tank 34 Fed #13</u>		State:		Zip:							
Project Location:		Phone #:									
Sampler Name: <u>S. Hitchcock</u>		Fax #:									
FOR LAB USE ONLY		PRESERV.		SAMPLING							
Lab I.D.		Sample I.D.									
H500413		5-10'		(G)RAB OR (C)OMP.							
1		5-11'		# CONTAINERS							
2		5-12'		GROUNDWATER							
3		5-13'		WASTEWATER							
4		5-14'		SOIL							
5		5-14'		OIL							
6		5-20'		SLUDGE							
7		5-21'		OTHER :							
8		5-22'		ACID/BASE:							
9		5-23'		ICE / COOL							
10		5-24'		OTHER :							
				DATE							
				TIME							
				12/15							
				12:37		TPH					
				12:39		BTEX					
				12:43		Chlorides					
				12:47							
				12:50							
				12:53							
				12:54							
				12:56							
				12:59							
				1:00							

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Relinquished By: Sheldon Peterson Date: 12/15/01 Time: 5:25  
 Received By: Joelle Jensen

Delivered By: (Circle One) UPS 5:30 Sample Condition:  Cool  Intact  Yes  No  No

Sampler - UPS - Bus - Other: 5:30 CHECKED BY: JJA

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

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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

PG 20A2

<b>Company Name:</b> Talon/PE <b>Project Manager:</b> D. Adkins <b>Address:</b> 408 W. Texas Ave. <b>City:</b> Artesia <b>State:</b> NM <b>Zip:</b> 88210 <b>Phone #:</b> 575-746-8768 <b>Fax #:</b> 575-746-8905 <b>Project #:</b> 700608, 41101 <b>Project Owner:</b> OXY <b>Project Name:</b> Red Tank 34 Fed #3 <b>Project Location:</b> <b>Sampler Name:</b> S. Hitchcock <small>FOR LAB USE ONLY</small>		<b>P.O. #:</b> OXY <b>Company:</b> Talon/PE <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>		<b>BILL TO</b> <b>ANALYSIS REQUEST</b>					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
H500413									
11	5-3 0'			GROUNDWATER			2/12/15	1:06	TPH
12	5-3 1'			WASTEWATER				1:08	BTEX
13	5-3 2'			SOIL				1:10	Chlorides
14	5-3 3'			OIL				1:12	
15	5-3 4'			SLUDGE				1:14	
16	5-4 0'			OTHER :				1:15	
17	5-4 0.5'			ACID/BASE:				1:17	
18	5-4 1'			ICE / COOL				1:19	
19	5-4 2'			OTHER :				1:20	
20	5-4 3'							1:23	

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 analysis. 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: Stephany Perina Date: 01/21/15 Time: 3:25  
 Received By: Scott Swanson

Delivered By: (Circle One) 5.82 Sample Condition:  Intact  Cool  Yes  No  Yes  No  
 Checked By: [Signature]

Sampler - UPS - Bus - Other: 5.82 #54

REMARKS: TPH BTEX Chlorides

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