



July 30, 2014

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

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

Subject: **Soil Assessment and Remediation Work Plan**
Devon Energy Corporation
Todd 22B Federal #2
30-015-32203

Dear Mr. Bratcher,

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

Devon Energy Corporation (Devon) 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.

Incident Date

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

July 4, 2014

Background Information

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

The Todd 22B release is located approximately thirty-nine (39) miles southeast of Carlsbad New Mexico. The legal location for the site is Section 22, Township 23S, Range 31E in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.2957601206878 North and -103.763572161992 West. A site plan is presented in [Appendix I](#).

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

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kermit-Berino fine sands with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian sands. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 430-feet below ground surface (bgs), according to the New Mexico Office of the State Engineer. See [Appendix II](#) for the referenced groundwater data.

The ranking for this site is **0** Based on the following:

ENVIRONMENTAL CONSULTING	Depth to ground water	>100'
ENGINEERING	Wellhead Protection Area	>1000'
DRILLING	Distance to surface water body	>1000'
CONSTRUCTION		
SPILL MANAGEMENT		
GENERAL CONTRACTING		

Incident Description

On July 4, 2014 the dumpline on the 2 phase separator plugged causing the open top tank to overflow resulting in a release of 117 barrels of mixed fluids across the location. A vac truck was immediately called to the location and recovered 115 barrels of fluid.

Actions Taken

On July 9, 2014 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 3-feet below ground surface.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in 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, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per Method SM4500Cl-B.

Laboratory Results

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

July 16, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	33200	<10	4250
	1'	<0.300	<16	<10	<10
	2'	<0.300	<16	<10	<10
	3'	<0.300	<16	<10	<10
	4'	<0.300	<16	<10	<10
S-2	0'	0.920	6800	139	17700
Refusal	0.5'	<0.300	2120	<10	65.1
S-3	0'	<0.300	320	<100	9290
	1'	<0.300	<16	<10	82.6
	2'	<0.300	<16	<10	<10
	3'	<0.300	<16	<10	<10
S-4	0'	4.23	1420	99.3	3640
	1'	181	8720	2710	11100
	2'	200	8240	3230	11600
	3'	164	704	2410	6450

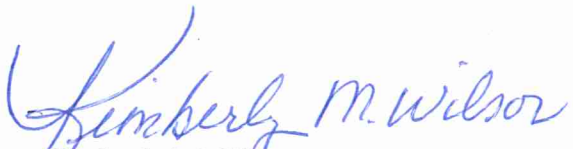
Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH. The chloride remediation standard is considered to be 1,000 mg/kg based upon a water table depth greater than 100-feet deep.

Proposed Remedial Actions

- The impacted areas in the vicinity of sample locations S-1 and S-3 will be excavated to a depth of 0.5-feet deep. The impacted area in the vicinity of S-2 will be excavated to a depth of 1-feet deep.
- The impacted area in the vicinity of S-4 will be excavated to a depth of 2.5-feet deep and then the area will then be treated with either high nitrogen fertilizer or mircoblaze as bioremediation agents. Confirmation samples will be collected after 60 to 90 days to verify effectiveness of treatment. Multiple applications may be needed inside the battery depending on the analytical results.
- All contaminated soil will be transported to an approved NMOCD disposal facility.
- Upon NMOCD and BLM approval of the confirmation samples, the excavated areas will be backfilled with new caliche, machine compacted and the location will be re-contoured.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD office in Artesia and the BLM, along with the Final Form C-141.

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,



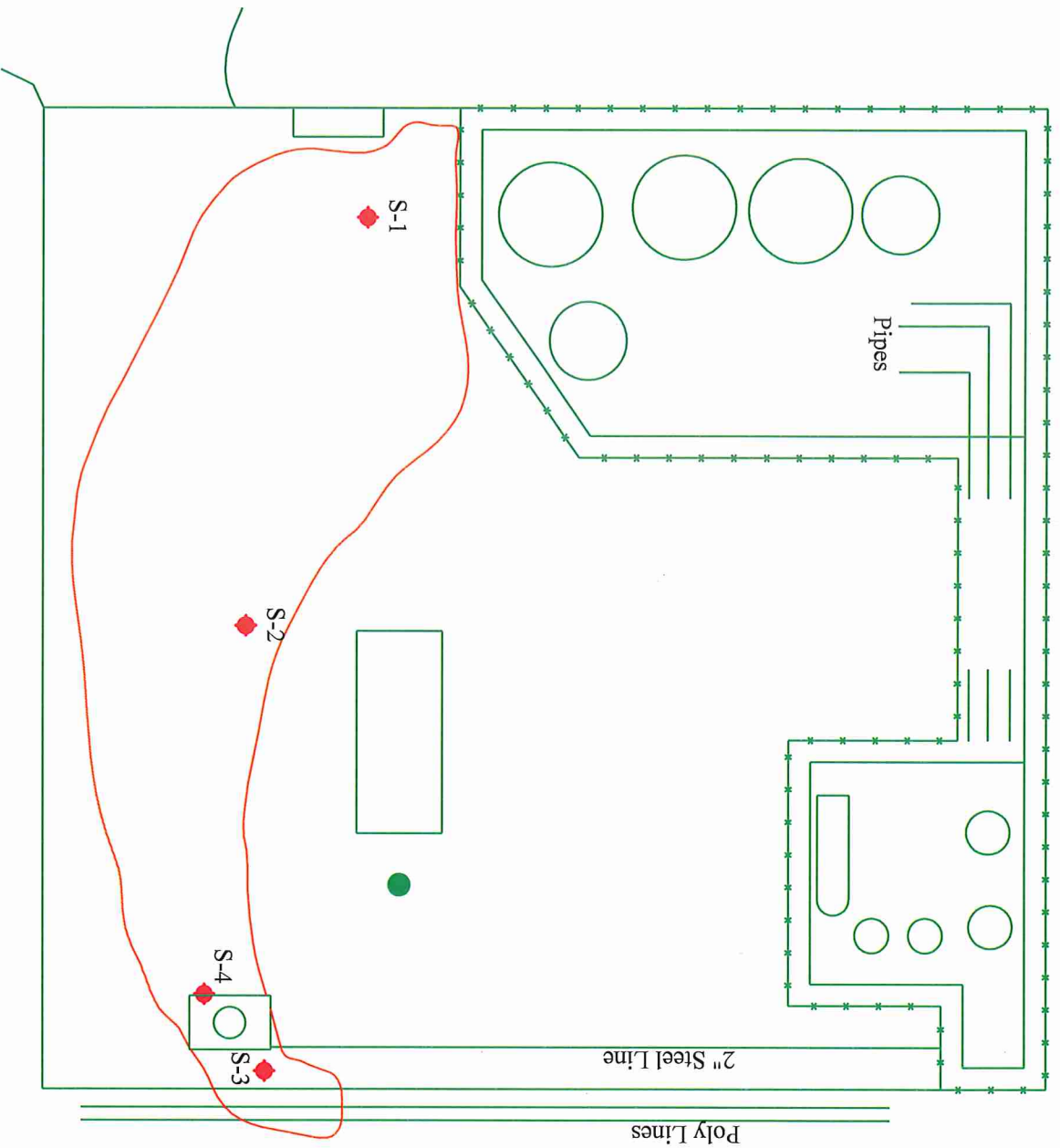
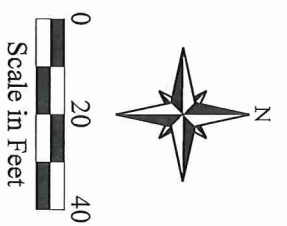
Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

APPENDIX I

SITE MAP



Date: 07/22/2014

Scale: 1" = 40'

Drawn By: TJS

Todd 22-2 Battery
 Devon Energy Corporation
 Eddy 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
C 02777	CUB	ED		4	4	4	10	23S	31E	616974	3575662	1776	890		
C 02258	C	ED			3	2	26	23S	31E	618055	3571853*	2444	662		
C 02348	C	ED		1	4	3	26	23S	31E	617648	3571068	2981	700	430	270

Average Depth to Water: **430 feet**

Minimum Depth: **430 feet**

Maximum Depth: **430 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 616724

Northing (Y): 3573903

Radius: 3000

*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

NM OIL CONSERVATION
ARTESIA DISTRICT

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

nHMP 1420224891

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Devon Energy Production	Contact	Kevin Phillips
Address	6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No.	575.390.5085
Facility Name	Todd 22-2 Battery	Facility Type	Oil

Surface Owner	Federal	Mineral Owner	Federal	API No.	30-015-32203
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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
B	22	23S	31E	510	FNL	1980	FEL	EDDY

Latitude: 32.29576 Longitude: 103.76357

NATURE OF RELEASE

Type of Release Spill	Produced Water & Oil	Volume of Release	117 BBL	Volume Recovered	115 BBL
Source of Release	Open top tank overflowed	Date and Hour of Occurrence	7/4/2014 5:30 AM	Date and Hour of Discovery	7/4/2014 7:30 AM
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Jeff Robertson BLM left message 8:30 AM & Randy Dade OCD 9:30 AM		
By Whom?		Date and Hour			
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

July 4, 2014 on Todd 22-2 Battery - Open top tank overflowed and created a spill outside the earth containment.

Describe Area Affected and Cleanup Action Taken.*

July 4, 2014 on Todd 22-2 Battery Dumphine on the 2 phase separator plugged and sent all of the fluid to the open top tank and overflowed it. It sent a total of 117 bbl of fluid to the tank. In the tank we had 95 BBL of produced water and 5 BBL of oil. There was 2 barrels of oil and 15 water that overflowed out of the tank.

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: Jeanette Barron

Printed Name: Jeanette Barron

Title: Field Admin Support

E-mail Address: Jeanette.barron@dv.com

Date: 7/7/14 Phone: 575.748.1813

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: [Signature]

Approval Date: 7/21/14

Expiration Date: NA

Conditions of Approval:

Remediation per OCD Rule & Guidelines, &
like approval by BLM. SUBMIT REMEDIATION

Attached ☐

PROPOSAL NO LATER THAN:

8/21/14

2RP-2378

* Attach Additional Sheets If Necessary

APPENDIX III
LABORATORY RESULTS



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

July 16, 2014

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TODD 22 FED #2

Enclosed are the results of analyses for samples received by the laboratory on 07/09/14 15:37.

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.

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

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H402091-01)

BTEx 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2014	ND	1.58	79.0	2.00	17.6		
Toluene*	<0.050	0.050	07/11/2014	ND	1.58	79.0	2.00	17.8		
Ethylbenzene*	<0.050	0.050	07/11/2014	ND	1.58	79.1	2.00	18.4		
Total Xylenes*	<0.150	0.150	07/11/2014	ND	4.80	80.0	6.00	18.2		
Total BTEX	<0.300	0.300	07/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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
Chloride	33200	16.0	07/15/2014	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
									S-06

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	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	4250	100	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 88.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 181 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1.0' (H402091-02)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.6	
Toluene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.8	
Ethylbenzene*	<0.050	0.050	07/12/2014	ND	1.58	79.1	2.00	18.4	
Total Xylenes*	<0.150	0.150	07/12/2014	ND	4.80	80.0	6.00	18.2	
Total BTX	<0.300	0.300	07/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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
Chloride	<16.0	16.0	07/15/2014	ND	416	104	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	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 91.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.6 % 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
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 2.0' (H402091-03)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.6	
Toluene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.8	
Ethylbenzene*	<0.050	0.050	07/12/2014	ND	1.58	79.1	2.00	18.4	
Total Xylenes*	<0.150	0.150	07/12/2014	ND	4.80	80.0	6.00	18.2	
Total BTEX	<0.300	0.300	07/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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
Chloride	<16.0	16.0	07/15/2014	ND	416	104	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	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 95.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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*=Accredited Analyte

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

 Received: 07/09/2014
 Reported: 07/16/2014
 Project Name: TODD 22 FED #2
 Project Number: 700794.120.01
 Project Location: DEVON

 Sampling Date: 07/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 3.0' (H402091-04)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.6		
Toluene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.8		
Ethylbenzene*	<0.050	0.050	07/12/2014	ND	1.58	79.1	2.00	18.4		
Total Xylenes*	<0.150	0.150	07/12/2014	ND	4.80	80.0	6.00	18.2		
Total BTX	<0.300	0.300	07/12/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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		
Chloride	<16.0	16.0	07/15/2014	ND	432	108	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	07/11/2014	ND	188	93.9	200	1.94			
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	200	100	200	1.88			

Surrogate: 1-Chlorooctane 95.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 4.0' (H402091-05)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.6	
Toluene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.8	
Ethylbenzene*	<0.050	0.050	07/12/2014	ND	1.58	79.1	2.00	18.4	
Total Xylenes*	<0.150	0.150	07/12/2014	ND	4.80	80.0	6.00	18.2	
Total BTEX	<0.300	0.300	07/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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
Chloride	<16.0	16.0	07/15/2014	ND	432	108	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	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	200	100	200	1.88	

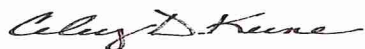
Surrogate: 1-Chlorooctane 98.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H402091-06)

BTX 8021B		mg/kg	Analyzed By: CK				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.6	
Toluene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.8	
Ethylbenzene*	0.204	0.050	07/12/2014	ND	1.58	79.1	2.00	18.4	
Total Xylenes*	0.716	0.150	07/12/2014	ND	4.80	80.0	6.00	18.2	
Total BTX	0.920	0.300	07/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 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
Chloride	6800	16.0	07/15/2014	ND	432	108	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	139	100	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	17700	100	07/11/2014	ND	200	100	200	1.88	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	139	100	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	17700	100	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 98.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 590 % 63.6-154

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Analytical Results For:

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

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0.5' REFUSAL (H402091-07)

BTEX 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.6		
Toluene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.8		
Ethylbenzene*	<0.050	0.050	07/12/2014	ND	1.58	79.1	2.00	18.4		
Total Xylenes*	<0.150	0.150	07/12/2014	ND	4.80	80.0	6.00	18.2		
Total BTEX	<0.300	0.300	07/12/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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		
Chloride	2120	16.0	07/15/2014	ND	432	108	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	07/11/2014	ND	188	93.9	200	1.94			
DRO >C10-C28	65.1	10.0	07/11/2014	ND	200	100	200	1.88			

Surrogate: 1-Chlorooctane 90.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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Analytical Results For:

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Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0' (H402091-08)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.6	
Toluene*	<0.050	0.050	07/12/2014	ND	1.58	79.0	2.00	17.8	
Ethylbenzene*	<0.050	0.050	07/12/2014	ND	1.58	79.1	2.00	18.4	
Total Xylenes*	<0.150	0.150	07/12/2014	ND	4.80	80.0	6.00	18.2	
Total BTX	<0.300	0.300	07/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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
Chloride	320	16.0	07/15/2014	ND	432	108	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	07/11/2014	ND	188	93.9	200	1.94		
DRO >C10-C28	9290	100	07/11/2014	ND	200	100	200	1.88		

Surrogate: 1-Chlorooctane 96.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 295 % 63.6-154

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Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1.0' (H402091-09)

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	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	<0.050	0.050	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	<0.050	0.050	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	<0.150	0.150	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTEX	<0.300	0.300	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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
Chloride	<16.0	16.0	07/15/2014	ND	432	108	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	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	82.6	10.0	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 94.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 2.0' (H402091-10)

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	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	<0.050	0.050	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	<0.050	0.050	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	<0.150	0.150	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTEX	<0.300	0.300	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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
Chloride	<16.0	16.0	07/15/2014	ND	432	108	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	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	200	100	200	1.88	

Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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KIMBERLY WILSON
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Fax To: (575) 745-8905

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 3.0' (H402091-11)

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	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	<0.050	0.050	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	<0.050	0.050	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	<0.150	0.150	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTEX	<0.300	0.300	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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
Chloride	<16.0	16.0	07/15/2014	ND	432	108	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	07/11/2014	ND	188	93.9	200	1.94	
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	200	100	200	1.88	

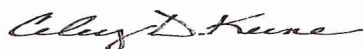
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Analytical Results For:

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

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 0' (H402091-12)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	0.371	0.100	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	0.767	0.100	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	3.09	0.300	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTEX	4.23	0.600	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 167 % 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
Chloride	1420	16.0	07/15/2014	ND	432	108	400	7.69	
TPH 8015M									

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	99.3	50.0	07/11/2014	ND	184	92.2	200	2.67	
DRO >C10-C28	3640	50.0	07/11/2014	ND	196	98.2	200	3.22	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 177 % 63.6-154

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Analytical Results For:

TALON LPE
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Fax To: (575) 745-8905

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' (H402091-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.44	2.00	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	50.6	2.00	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	26.1	2.00	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	96.6	6.00	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTEX	181	12.0	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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
Chloride	8720	16.0	07/15/2014	ND	432	108	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	2710	100	07/11/2014	ND	184	92.2	200	2.67		
DRO >C10-C28	11100	100	07/11/2014	ND	196	98.2	200	3.22		

Surrogate: 1-Chlorooctane 171 % 65.2-140

Surrogate: 1-Chlorooctadecane 255 % 63.6-154

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Analytical Results For:

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Fax To: (575) 745-8905

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 2.0' (H402091-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.20	2.00	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	58.9	2.00	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	28.2	2.00	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	103	6.00	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTX	200	12.0	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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
Chloride	8240	16.0	07/15/2014	ND	432	108	400	7.69	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane 182 % 65.2-140

Surrogate: 1-Chlorooctadecane 259 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/09/2014
Reported: 07/16/2014
Project Name: TODD 22 FED #2
Project Number: 700794.120.01
Project Location: DEVON

Sampling Date: 07/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 3.0' (H402091-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.93	2.00	07/14/2014	ND	1.88	94.1	2.00	4.05	
Toluene*	49.2	2.00	07/14/2014	ND	1.88	93.8	2.00	4.05	
Ethylbenzene*	23.0	2.00	07/14/2014	ND	1.85	92.6	2.00	3.40	
Total Xylenes*	83.4	6.00	07/14/2014	ND	5.68	94.7	6.00	3.57	
Total BTX	164	12.0	07/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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
Chloride	704	16.0	07/15/2014	ND	432	108	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	2410	50.0	07/11/2014	ND	184	92.2	200	2.67	
DRO >C10-C28	6450	50.0	07/11/2014	ND	196	98.2	200	3.22	

Surrogate: 1-Chlorooctane 147 % 65.2-140

Surrogate: 1-Chlorooctadecane 182 % 63.6-154

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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

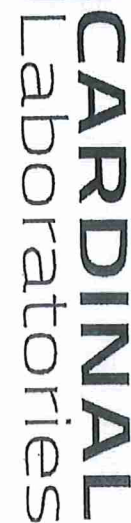
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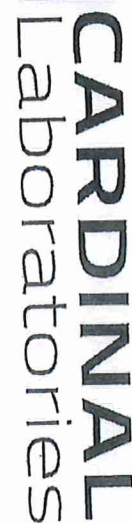
Celey D. Keene, Lab Director/Quality Manager



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ANALYSIS REQUEST

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