

**Devon Energy Production Co LP
Bell Lake 24 Federal 1H**

Closure Report

**Unit Letter M, Section 24, T24S, R32E
Lea County, New Mexico**

30-025-41182

1RP-4080

March 20, 2017



Prepared for:

**Devon Energy Production Co., LP
6488 Seven Rivers Hwy
Artesia, New Mexico 88211**

By:

**Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510**

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I. Company Contacts

Representative	Company	Telephone	E-mail
Brett Fulks	Devon Energy Prod.	575-748-1844	Brett.Fulks@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform site remediation on the Bell Lake 24 Federal 1H, concerning a ten (10) bbl. release of oil. This site is situated in Lea County, Section 24, Township 24S, and Range 32E.

According to the C-141: Due to weather conditions, the main way cover flange froze causing the three phase production vessel separator to blow off and spray 10 bbl. of oil on location and into the pasture. The three phase vessel was immediately bypassed to stop the release. The approximate affected area was 20ft X 50ft on the west side of the location. Approximately less than 4 bbl. of the released oil sprayed in a westerly direction away from the pad into the pasture. A vacuum truck recovered 4 bbl. of the released oil. SESI was contacted to assess the area for remediation. The NMOCD and BLM were notified on January 5, 2016.

III. Surface and Ground Water

The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 380' bgs.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 250 mg/kg (PPM) is also required.

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
RANKING SCORE (TOTAL POINTS)			0

V. Work Performed

On November 7, 2016 SESI was onsite to photograph, assess and map the spill area.

On November 28, 2016, SESI personnel was onsite to install auger holes to determine vertical extent of contamination. Shawn Young (Devon) was contacted to advise that SESI is onsite to hand auger the site and no mechanical equipment would be used to delineate. Shawn said it was OK and would not have to be onsite. SESI set up and began installing the auger holes. Auger hole one was installed to the depth of two feet, where soil samples were obtained and field tested for Chlorides at surface, one and two feet. All field test results were under the 250 ppm. Auger holes two, three and four were installed to the depth of refusal at two feet in depth. Soil samples were obtained and field tested at surface, one and two feet. The results on all samples were under the 250 ppm. The auger holes and sample points were mapped using the Juno 3B and site photos were taken. The field test for TPH was performed at the SESI lab and results were under 100 ppm. All soil samples were properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), and Chlorides (Method SM4500Cl-B). The results are presented in the table below:

Soil Sample Results: Cardinal Laboratories 11-28-16								
SAMPLE ID	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO
AH-1 Surface	<0.050	<0.050	<0.050	0.245	<0.300	<16.0	<10.0	4750
AH-1 1'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	10.4
AH-1 2'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0
AH-2 Surface	<0.050	0.059	<0.050	0.151	<0.300	<16.0	18.8	4590
AH-2 1'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	12.9
AH-2 2'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0
AH-3 Surface	<0.050	0.152	0.466	2.46	3.08	48.0	91.5	7900
AH-3 1'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	17.3
AH-3 2'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0
AH-4 Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0
AH-4 1'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0
AH-4 2'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0

On February 22, 2017, Jerry SESI is onsite with Gabriel Tarin (Devon) and advised him the purpose of SESI being onsite. Set up equipment, pump and hoses. Looked over the location for the hydro carbon staining. Started the pump and began saturating the hydro carbon staining with the mixture of water and micro blaze. Cleaned up and and rigged down.

VI. Request for Closure

Due to little to no contamination, and the results listed above, the surface was applied with a micro blaze. Devon Energy Production respectfully submits this closure report for your consideration, and requests that no further action be required.

VII. Figures & Appendices

- Figure 1 – Vicinity Map
- Figure 2 – Site Plan
- Appendix A – C-141
- Appendix B – Groundwater
- Appendix C – Analytical Results
- Appendix D – Photo Documentation

6 Y`@_ Y& : XYfU`%`
AUFW`&\$ž&\$%`

8 Yj cb'9bYf[mDfcXi Wjcb`
9XXm7ci bmžBYk`A YI]W`

Figure 1 Vicinity Map

Bell Lake 24 Federal 1 H

10 BBLs Oil 1-04-2016



This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: Sarah
Map is current as of 1-04-2016



S24 T24S R32E

Miles
0 0.01 0.02 0.04 1: 1,779

GoogleWMSRoadmap



6 Y`@_ Y& : XYfU`%`
AUFW`&\$Z&\$%+

8 Yj cb'9bYf[mDfcXi Wjcb`
9XXm7ci bmZBYk`A YI]W`

Figure 2 Site Plan



Survey

Google Earth

1996

Imagery Date: 2/13/2014 32°11'46.94" N 103°38'05.26" W elev 3584 ft eye alt 4134 ft

Appendix A

C-141

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 Devon Energy Production Company	Contact Randy Gladden, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-513-9463
Facility Name Bell Lake 24 Federal 1 H	Facility Type Oil

Surface Owner Federal	Mineral Owner Federal	API No 30-025-41182
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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
M	24	24S	32E	200	South	660	West	Lea

Latitude: 32.196434 **Longitude:** 103.6347809

NATURE OF RELEASE

Type of Release Spill Oil	Volume of Release 10 BBLs	Volume Recovered None
Source of Release Three phase vessel	Date and Hour of Occurrence 01/04/2016 9:30am	Date and Hour of Discovery 01/04/2016 9:30am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM- Jim Amos-voicemail OCD- Kellie Jones-Voicemail	
By Whom? Santiago (Jim) Huerta	Date and Hour BLM- 1/05/2016 @ 7:00am OCD- 1/05/2016 @ 7:10am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*

Due to the weather the man way cover flange froze causing the three phase production vessel separator to blow off and spray 10 BBLs of oil on location and into pasture. The three phase vessel was immediately bypassed to stop release.

Describe Area Affected and Cleanup Action Taken.*

10 BBLs of oil was released affecting an area approximately 20ft x 50ft on the west side of the location. Approximately less than 4 BBLs of the released oil sprayed in a Westerly direction away from the pad into the pasture. 4 BBLs of released oil was recovered via vacuum truck. Environmental agency will be contacted for 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.

Signature: <i>Sarah Gallegos-Troublefield</i>	OIL CONSERVATION DIVISION		
Printed Name: Sarah Gallegos-Troublefield	Approved by Environmental Specialist:		
Title: Field Admin Support	Approval Date:	Expiration Date:	
E-mail Address: Sarah.Gallegos-Troublefield@dnv.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1/06/2016	Phone: 575.748.1864		

* Attach Additional Sheets If Necessary

Appendix B

Groundwater



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	Depth Well	Depth Water	Water Column
C 01932	C	ED		3	1	12	24S	32E		628633	3567188*	492		
C 02350		ED		4	3	10	24S	32E		625826	3566333*	60		
C 03527 POD1	C	LE		1	2	3	03	24S	32E	625770	3568487	500		
C 03528 POD1	C	LE		1	1	2	15	24S	32E	626040	3566129	541		
C 03530 POD1	C	LE		3	4	3	07	24S	32E	620886	3566156	550		
C 03555 POD1	C	LE		2	2	1	05	24S	32E	622709	3569231	600	380	220

Average Depth to Water: **380 feet**

Minimum Depth: **380 feet**

Maximum Depth: **380 feet**

Record Count: 6

PLSS Search:

Township: 24S

Range: 32E

*UTM location was derived from PLSS - see Help

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

Appendix C – Analytical Results



November 30, 2016

Bob Allen
Safety & Environmental Solutions
703 East Clinton
Hobbs, NM 88240

RE: DEV-16-014

Enclosed are the results of analyses for samples received by the laboratory on 11/28/16 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 11/28/2016
 Reported: 11/30/2016
 Project Name: DEV-16-014
 Project Number: DEV-16-014
 Project Location: NONE GIVEN

 Sampling Date: 11/28/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: AH-1 SURFACE (H602648-01)

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	11/29/2016	ND	2.21	110	2.00	0.189	
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251	
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134	
Total Xylenes*	0.245	0.150	11/29/2016	ND	6.61	110	6.00	0.178	
Total BTEX	<0.300	0.300	11/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	4750	10.0	11/29/2016	ND	187	93.6	200	2.78	QM-07	

Surrogate: 1-Chlorooctane 79.7 % 35-147
Surrogate: 1-Chlorooctadecane 188 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/28/2016	Sampling Date:	11/28/2016
Reported:	11/30/2016	Sampling Type:	Soil
Project Name:	DEV-16-014	Sampling Condition:	** (See Notes)
Project Number:	DEV-16-014	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: AH-1 1' (H602648-02)

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	11/29/2016	ND	2.21	110	2.00	0.189	
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251	
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/29/2016	ND	6.61	110	6.00	0.178	
Total BTEX	<0.300	0.300	11/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/29/2016	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	11/29/2016	ND	176	87.8	200	0.680	
DRO >C10-C28	10.4	10.0	11/29/2016	ND	187	93.6	200	2.78	

Surrogate: 1-Chlorooctane 81.5 % 35-147
Surrogate: 1-Chlorooctadecane 84.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/28/2016	Sampling Date:	11/28/2016
Reported:	11/30/2016	Sampling Type:	Soil
Project Name:	DEV-16-014	Sampling Condition:	** (See Notes)
Project Number:	DEV-16-014	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: AH-1 2' (H602648-03)

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	11/29/2016	ND	2.21	110	2.00	0.189		
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251		
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134		
Total Xylenes*	<0.150	0.150	11/29/2016	ND	6.61	110	6.00	0.178		
Total BTEX	<0.300	0.300	11/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/29/2016	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	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	<10.0	10.0	11/29/2016	ND	187	93.6	200	2.78		

Surrogate: 1-Chlorooctane 78.6 % 35-147
Surrogate: 1-Chlorooctadecane 82.7 % 28-171

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*=Accredited Analyte

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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/28/2016	Sampling Date:	11/28/2016
Reported:	11/30/2016	Sampling Type:	Soil
Project Name:	DEV-16-014	Sampling Condition:	** (See Notes)
Project Number:	DEV-16-014	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: AH-2 SURFACE (H602648-04)

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	11/29/2016	ND	2.21	110	2.00	0.189	
Toluene*	0.059	0.050	11/29/2016	ND	2.27	113	2.00	0.00251	
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134	
Total Xylenes*	0.151	0.150	11/29/2016	ND	6.61	110	6.00	0.178	
Total BTEX	<0.300	0.300	11/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	18.8	10.0	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	4590	10.0	11/29/2016	ND	187	93.6	200	2.78		

Surrogate: 1-Chlorooctane 85.8 % 35-147
Surrogate: 1-Chlorooctadecane 179 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/28/2016	Sampling Date:	11/28/2016
Reported:	11/30/2016	Sampling Type:	Soil
Project Name:	DEV-16-014	Sampling Condition:	** (See Notes)
Project Number:	DEV-16-014	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: AH-2 1' (H602648-05)

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	11/29/2016	ND	2.21	110	2.00	0.189		
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251		
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134		
Total Xylenes*	<0.150	0.150	11/29/2016	ND	6.61	110	6.00	0.178		
Total BTEX	<0.300	0.300	11/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/29/2016	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	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	12.9	10.0	11/29/2016	ND	187	93.6	200	2.78		

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 11/28/2016
 Reported: 11/30/2016
 Project Name: DEV-16-014
 Project Number: DEV-16-014
 Project Location: NONE GIVEN

 Sampling Date: 11/28/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: AH-2 2' (H602648-06)

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	11/29/2016	ND	2.21	110	2.00	0.189		
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251		
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134		
Total Xylenes*	<0.150	0.150	11/29/2016	ND	6.61	110	6.00	0.178		
Total BTEX	<0.300	0.300	11/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/29/2016	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	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	<10.0	10.0	11/29/2016	ND	187	93.6	200	2.78		

Surrogate: 1-Chlorooctane 95.5 % 35-147

Surrogate: 1-Chlorooctadecane 96.8 % 28-171

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Analytical Results For:

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 Bob Allen
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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/28/2016	Sampling Date:	11/28/2016
Reported:	11/30/2016	Sampling Type:	Soil
Project Name:	DEV-16-014	Sampling Condition:	** (See Notes)
Project Number:	DEV-16-014	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: AH-3 SURFACE (H602648-07)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2016	ND	2.21	110	2.00	0.189	
Toluene*	0.152	0.050	11/29/2016	ND	2.27	113	2.00	0.00251	
Ethylbenzene*	0.466	0.050	11/29/2016	ND	2.19	109	2.00	0.134	
Total Xylenes*	2.46	0.150	11/29/2016	ND	6.61	110	6.00	0.178	
Total BTEX	3.08	0.300	11/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/29/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	91.5	10.0	11/29/2016	ND	176	87.8	200	0.680	
DRO >C10-C28	7900	10.0	11/29/2016	ND	187	93.6	200	2.78	

Surrogate: 1-Chlorooctane 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 273 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/28/2016	Sampling Date:	11/28/2016
Reported:	11/30/2016	Sampling Type:	Soil
Project Name:	DEV-16-014	Sampling Condition:	** (See Notes)
Project Number:	DEV-16-014	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: AH-3 1' (H602648-08)

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	11/29/2016	ND	2.21	110	2.00	0.189		
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251		
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134		
Total Xylenes*	<0.150	0.150	11/29/2016	ND	6.61	110	6.00	0.178		
Total BTEX	<0.300	0.300	11/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/29/2016	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	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	17.3	10.0	11/29/2016	ND	187	93.6	200	2.78		

Surrogate: 1-Chlorooctane 81.0 % 35-147

Surrogate: 1-Chlorooctadecane 96.4 % 28-171

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Analytical Results For:

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Received:	11/28/2016	Sampling Date:	11/28/2016
Reported:	11/30/2016	Sampling Type:	Soil
Project Name:	DEV-16-014	Sampling Condition:	** (See Notes)
Project Number:	DEV-16-014	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: AH-3 2' (H602648-09)

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	11/29/2016	ND	2.21	110	2.00	0.189		
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251		
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134		
Total Xylenes*	<0.150	0.150	11/29/2016	ND	6.61	110	6.00	0.178		
Total BTEX	<0.300	0.300	11/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/29/2016	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	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	<10.0	10.0	11/29/2016	ND	187	93.6	200	2.78		

Surrogate: 1-Chlorooctane 101 % 35-147
Surrogate: 1-Chlorooctadecane 111 % 28-171

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Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/28/2016	Sampling Date:	11/28/2016
Reported:	11/30/2016	Sampling Type:	Soil
Project Name:	DEV-16-014	Sampling Condition:	** (See Notes)
Project Number:	DEV-16-014	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: AH-4 SURFACE (H602648-10)

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	11/29/2016	ND	2.21	110	2.00	0.189		
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251		
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134		
Total Xylenes*	<0.150	0.150	11/29/2016	ND	6.61	110	6.00	0.178		
Total BTEX	<0.300	0.300	11/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/29/2016	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	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	<10.0	10.0	11/29/2016	ND	187	93.6	200	2.78		

Surrogate: 1-Chlorooctane 89.7 % 35-147
Surrogate: 1-Chlorooctadecane 94.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 11/28/2016
 Reported: 11/30/2016
 Project Name: DEV-16-014
 Project Number: DEV-16-014
 Project Location: NONE GIVEN

 Sampling Date: 11/28/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: AH-4 1' (H602648-11)

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	11/29/2016	ND	2.21	110	2.00	0.189		
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251		
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134		
Total Xylenes*	<0.150	0.150	11/29/2016	ND	6.61	110	6.00	0.178		
Total BTEX	<0.300	0.300	11/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/29/2016	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	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	<10.0	10.0	11/29/2016	ND	187	93.6	200	2.78		

Surrogate: 1-Chlorooctane 90.6 % 35-147

Surrogate: 1-Chlorooctadecane 92.7 % 28-171

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Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/28/2016	Sampling Date:	11/28/2016
Reported:	11/30/2016	Sampling Type:	Soil
Project Name:	DEV-16-014	Sampling Condition:	** (See Notes)
Project Number:	DEV-16-014	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: AH-4 2' (H602648-12)

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	11/29/2016	ND	2.21	110	2.00	0.189		
Toluene*	<0.050	0.050	11/29/2016	ND	2.27	113	2.00	0.00251		
Ethylbenzene*	<0.050	0.050	11/29/2016	ND	2.19	109	2.00	0.134		
Total Xylenes*	<0.150	0.150	11/29/2016	ND	6.61	110	6.00	0.178		
Total BTEX	<0.300	0.300	11/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/29/2016	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	11/29/2016	ND	176	87.8	200	0.680		
DRO >C10-C28	<10.0	10.0	11/29/2016	ND	187	93.6	200	2.78		

Surrogate: 1-Chlorooctane 83.1 % 35-147
Surrogate: 1-Chlorooctadecane 90.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM zip: 88240

Phone #: 575 397-0510 Fax #: 575 393-4388

Project #: 201-16-014 Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
<u>H0020648</u>	<u>AH-1 Surface</u>	<u>Q</u>	<u>1</u>	<u>✓</u>							<u>11/28</u>	<u>1030</u>	<u>TPH 8015</u>
	<u>AH-1 1FT</u>	<u>Q</u>	<u>1</u>	<u>✓</u>								<u>0055</u>	<u>BTEX</u>
	<u>AH-1 2FT</u>	<u>Q</u>	<u>1</u>	<u>✓</u>								<u>1110</u>	<u>Chloride</u>
	<u>AH-2 Surface</u>	<u>Q</u>	<u>1</u>	<u>✓</u>								<u>1120</u>	
	<u>AH-2 1FT</u>	<u>Q</u>	<u>1</u>	<u>✓</u>								<u>1140</u>	
	<u>AH-2 2FT</u>	<u>Q</u>	<u>1</u>	<u>✓</u>								<u>1210</u>	
	<u>AH-3 Surface</u>	<u>Q</u>	<u>1</u>	<u>✓</u>								<u>1225</u>	
	<u>AH-3 1FT</u>	<u>Q</u>	<u>1</u>	<u>✓</u>								<u>1300</u>	
	<u>AH-3 2FT</u>	<u>Q</u>	<u>1</u>	<u>✓</u>								<u>1320</u>	
	<u>AH-4 Surface</u>	<u>Q</u>	<u>1</u>	<u>✓</u>								<u>1128</u>	<u>1230</u>

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Relinquished By: SSN Jewery Date: 11/28/16 Received By: Jodi Jensen

Time: 1500

Delivered By: (Circle One) #75 21.02

Sampler - UPS - Bus - Other: 21.02

Sample Condition: Cool Intact Yes No

CHECKED BY: [Signature]

REMARKS: Must from Site

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

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

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

Phone #: 575 397-0510 Fax #: 575 393-4388

Project #: *DN-16-014* Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H6021048

11 ATT-4 1st
12 ATT-4 2nd

(G)RAB OR (C)OMP.
 # CONTAINERS
 GROUNDWATER
 WASTEWATER
 SOIL
 OIL
 SLUDGE
 OTHER :
 ACID/BASE:
 ICE / COOL
 OTHER :

91

SO

DATE TIME

11/28 1345
11/28 1400

AT 8105
AT 8105
AT Chouder

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:

Ssa Jerry

Date: *11/28*

Received By:

Spai Mendon

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

REMARKS: *Arrived from site*

Relinquished By:

Date:

Received By:

Delivered By: (Circle One)

UPS

#75

Sample Condition

Cool Intact

Checked By: *[Signature]*

Sampler - UPS - Bus - Other:

21.62

21.62

Sample Condition

Cool Intact

Checked By: *[Signature]*

Appendix D

Site Photographs

Bell Lake 24 Fed 1H_10

Photo Page



West side of the release area



West side of the release area



Interior of release area-looking East



East side-looking South



East Side Release Point





Devon Bell Lake
Microblaze Installed





