

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

APPROVED

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 Checkers 24 Federal 5	Facility Type Oil Well	
Surface Owner Federal	Mineral Owner Federal	API No 30-025-33702

LOCATION OF RELEASE

Unit Letter M	Section 24	Township 22S	Range 32E	Feet from the 660	North/South Line South	Feet from the 330	East/West Line West	County Lea
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Latitude: 32.371731 **Longitude:** -103.635369

NATURE OF RELEASE

Type of Release Oil & produced water release	Volume of Release 7.5BBL oil & 7.5BBL produced water	Volume Recovered 2 BBLS oil
Source of Release Gauge on tubing line at the wellhead	Date and Hour of Occurrence October 23, 2015 4:00 PM	Date and Hour of Discovery October 23, 2015 4:00 PM
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 OCD: Kellie Jones	
By Whom? BLM: Assistant Production Foreman Rebecca Jamison OCD: EHS Professional Brett Fulks	Date and Hour BLM: October 24, 2015 7:00 PM OCD: November 18, 2015 4:00 PM	
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.*

The top of the gauge on the tubing line at the well head blew out resulting in a release. Upon discovery the tubing was closed and the well was shut in immediately to prevent further release. The gauge has been replaced.

Describe Area Affected and Cleanup Action Taken.*

15 BBLS of oil and produced water mix; approximately 7.5 BBLS oil & 7.5 BBLS produced water was released from the gauge on the tubing line at the wellhead. 4,922.03 sq. ft. was affected. The spill originated at the wellhead and flowed in a northeasterly direction off the pad and into the pasture in two separate streams. Approximately 2 BBLS of oil were recovered via vacuum truck. Environmental Agency has been contacted for remediation.

Safety and Environmental Solutions, Inc. performed site delineation. Multiple soil samples were taken before and after remediation from multiple sample points and multiple depths. All samples were analyzed by Cardinal Laboratories. Delineation Report and Work Plan using RX Soil procedure for cleanup including reseeding of the site with the appropriate seed mix was approved by both the BLM and NMOCD. The results of the lab analysis indicate successful mitigation of the contaminated soil.

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: <i>Kurt Dymek</i>	
Title: Field Admin Support	Approval Date: 9/21/2016	Expiration Date: N/A
E-mail Address: Sarah.Gallegos-Troublefield@dmn.com	Conditions of Approval: N/A	Attached <input type="checkbox"/> IRP 3991
Date: 5/18/2016 Phone: 575.748.1864		

* Attach Additional Sheets If Necessary

nKJ1532737675
pKJ1532738010

Devon Energy Production Co LP

Checkers 24 Federal 5

1RP-3991

Closure

Revised

Unit Letter D, Section 14, T24S, R29E

Eddy County, New Mexico

30-025-33702

June 17, 2016



Prepared for:

**Devon Energy Production Co., LP
PO Box 250
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 delineation on Checkers 24 Federal 5 location, concerning a Seven and a half (7.5) BBL release comprising of oil and produced water. This site is situated in Lea County, Section 24, Township 22S, and Range 32E.

According to the C-141: A gauge on the tubing line at the well head blew out, resulting in a release of oil and produced water. A vacuum truck was utilized to recover approximately 2 BBLS of oil. The tubing was closed and the well shut in, so that necessary repairs could be conducted and prevent further impact. The spill originated at the wellhead and traversed in a northeasterly direction off the pad area and onto the pasture in two separate streams. The spill area was mapped, using a Trimble Juno 3B. Whereby, the total area of impact was estimated to be 4,922 sq. ft. The NMOCD and BLM, were notified on October 24, 2015, and November 18, 2015 respectively. The C-141 was filed and stamped by the NMOCD on November 23, 2015 assigning this event number **1RP-3991** (Appendix A).

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. According to the topography map for Lea County, the depth to ground water for Section 14, Township 22S, Range 32E is approximately 256' bgs. Further research of the New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 256' bgs. Thereby, posing no eminent threat or danger to life forms in the area (Appendix B).

IV. Work Performed

On October 26, 2015, SESI was onsite to photograph. Assess and map the spill area.

On October 29, 2015 SESI personnel revisited the site to conduct a vertical and horizontal soil sampling activities of the impacted area. Four (4) sample point positions were established. Bore holes were advanced to depth of 2' bgs., and 3' bgs., respectively. Representative soil samples were collected at the Four sample points, properly packaged, preserved, and transported to Cardinal Laboratories of Hobbs, New Mexico and analyzed for Chloride (Cl-) (Method SM 4500 Cl-B). The results of the analysis are presented in the table below (Appendix C):

Sample Date 10/29/15	Depth	Chloride (mg/kg)	Total BTEX	GRO C6- C10	DRO >C10- C28
Sample ID					
AH-1	Surface	6400			
AH-1	1'	1090			
AH-1	2'	96	<0.300	<10.0	42.0
AH-2	Surface	1600			
AH-2	1'	1360			
AH-2	2'	1810			
AH-2	2.5'	80	<0.300	<10.0	14.5
AH-3	Surface	6130			
AH-3	1'	704			
AH-3	2'	16.0	<0.300	<10.0	<10.0
AH-4	1'	11300			
AH-4	2'	80.0	<0.300	<10.0	<10.0

On December 30, 2015: based on the above soil analyses, SESI submitted a written Delineation Report and Work plan that called for the use of the Rx Soil procedure for cleanup of this site. The plan was approved by the NMOCD and the BLM with the BLM requiring reseeding of the site with the appropriate seed mix upon completion. During a site visit by SESI and RXSoil, it was decided that this site could be remediated in the excavation created by the removal of the contaminated soil, instead of creating two remediation trenches. In order to use the excavation, SESI will field tested the sides and bottom of the excavation after removal of the contaminated soil.

On January 21, 2016, soil samples were retrieved from the sidewalls and bottom of the excavation created by the removal of the contaminated soil. Ms. Shelley Tucker of the BLM, Ms. Kelly Jones and Mr. Jamie Keyes of the NMOCD, and Ms. Amber Groves of the NM State Land Office were touring the location after the excavation was complete, during the side and bottom sampling being performed. Mr. Bob Allen of SESI reported to the regulatory representatives that the sampling was complete and field testing confirmed removal of the contaminated soil. The samples were properly preserved, packaged, and transported to Cardinal Laboratories and analyzed for Chloride (Cl⁻) (Method SM 4500 Cl-B). The results are presented in the table below:

Sample ID	Location	Chloride SM4500CI-B
SP-1	NW Wall	240
SP-2	SE Wall	288
SP-3	NW Wall	240
SP-4	SE Wall	304
SP-5	NW Wall	80
SP-6	SE Wall	64
SP-7	Bottom @ 3'	304
SP-9	Bottom @ 2'	384
SP-10	North Wall	240
SP-11	North Wall	256
SP-12	South Wall	<16.0
SP-13	South Wall	32.0
SP-14	Bottom @ 2'	32.0

The site was prepared for remediation activities with the installation of the lined infrastructure for soil treatment, see photo documentation (Appendix D). RX Soil procedure was applied to the impacted soil inside the lined infrastructure.

On January 25, 2016 SESI personnel returned to the site in order to supervise the blending of the treated soil and obtain samples from the leachate from random areas. The soil was field tested for Chlorides and the results ranged from 380 mg/kg to 1267 mg/kg. The effluent concentrated for Chlorides at 11,000 mg/kg.

On January 26, 2016 the effluent results for Chlorides were 9,800 mg/kg, indicating a reduction in the levels.

On February 10, 2016 the effluent results for Chlorides were at 4,400 mg/kg.

On February 18, 2016 SESI personnel visited the site to retrieve representative soil samples from the treatment area. All soil samples were properly packaged, preserved, and transported to Cardinal Laboratories of Hobbs, New Mexico and analyzed for Chloride (Cl-) (Method SM 4500 Cl-B). The results of sampling event are displayed in the table below: (Appendix C):

The results of the sampling indicate that further treatment was necessary at Six (6) of the fifteen (15) sample points and at different depths at three (3) of the six (6) sample points (SP) in question.

The soil in the areas around the six sample points were re-treated with the RX Soil procedure.

On March 12, 2016 the effluent sample for Chloride result was at 832 mg/kg indicating a sharp decline in Chloride levels as was anticipated based on the aforementioned results.

On March 16, 2016 SESI personnel returned to the site to collect and field test representative soil samples. Grab samples were collected from SP's 4, 5, 6, 7, 11, and 14. All soil samples were properly packaged, preserved, and transported to Cardinal Laboratories of Hobbs, New Mexico and analyzed for Chloride (Cl-) (Method SM 4500 Cl-B). The results of the two sampling events are displayed in the table below: (Appendix C):

Analytical Results 02-18-16				Field Tests Dated 03-16-16	
Sample Point	Surface	1' bgs	2' bgs	1' bgs	2' bgs
SP1	144	288	688		
SP2	368	688	736		
SP3	112	624	832		
SP4	32	464	1180		1040
SP5	592	576	1840		1020
SP6	304	1100	1760	448	592
SP7	912	1020	1600	368	1020
SP8					
SP9	1060	352	528		
SP10	528	480	656		
SP11	480	1410	1500	240	144
SP12	128	432	352		
SP13	112	351	416		
SP14	176	176	1280		240
SP15	416	1140	832		

Of the 43 samples taken within the treatment area, only three (3) of the results were above 1,000 ppm in chlorides. The fact that 93% of the samples were below 1,000 ppm indicated successful remediation of the chloride contaminated soil. The few areas that are not below 1,000 ppm are still encapsulated in the lined treatment area therefore not allowed to migrate to any surrounding areas.

VII. Request for Closure

The results indicate successful mitigation of the contaminated soil and SESI, on behalf of Devon Energy respectfully requests that the regulatory file related to this incident be closed with no further action required other than reseeding for this site.

VIII. 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

Figure 1

Vicinity Map

Figure 2
Site Plan

Appendix A

Final C-141

Appendix B

Groundwater

Appendix C

Analytical Results

Appendix D

Site Photos

Devon Energy Production Co LP

**Checkers 24 Federal 5
1RP-3991
Closure**

**Unit Letter D, Section 14, T24S, R29E
Eddy County, New Mexico**

30-025-33702

April 11, 2016



Prepared for:

**Devon Energy Production Co., LP
PO Box 250
Artesia, New Mexico 88211**

By:

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

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On December 30, 2015 based on the above soil analyses, SESI submitted a written Delineation Report and Work plan on December 30, 2105 that called for the use of the Rx Soil procedure for cleanup of this site. The plan was approved by the NMOCD and the BLM with the BLM requiring reseeding of the site with the appropriate seed mix.

Commencing January 25, 2016, the site was prepared for remediation activities with the installation of the lined infrastructure for soil treatment, see photo documentation (Appendix D). The RX Soil procedure was applied to the site in the following days.

On February 18, 2016 SESI personnel visited the site to retrieve representative soil samples from the treatment area. All soil samples were properly packaged, preserved, and transported to Cardinal Laboratories of Hobbs, New Mexico and analyzed for Chloride (Cl-) (Method SM 4500 Cl-B). The results of sampling event are displayed in the table below: (Appendix C):

The results of the sampling indicate that further treatment was necessary at Six (6) of the fifteen (15) sample points and at different depths at three (3) of the six (6) sample points (SP) in question.

The soil in the areas around the six sample points were re-treated with the RX Soil procedure.

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VII. Request for Closure

The results indicate successful mitigation of the contaminated soil and SESI, on behalf of Devon Energy requested no further action be required other than reseeded for this site.

VIII. Figures & Appendices

Figure 1 - Vicinity Map

Figure 2 - Site Plan

Appendix A – C-141

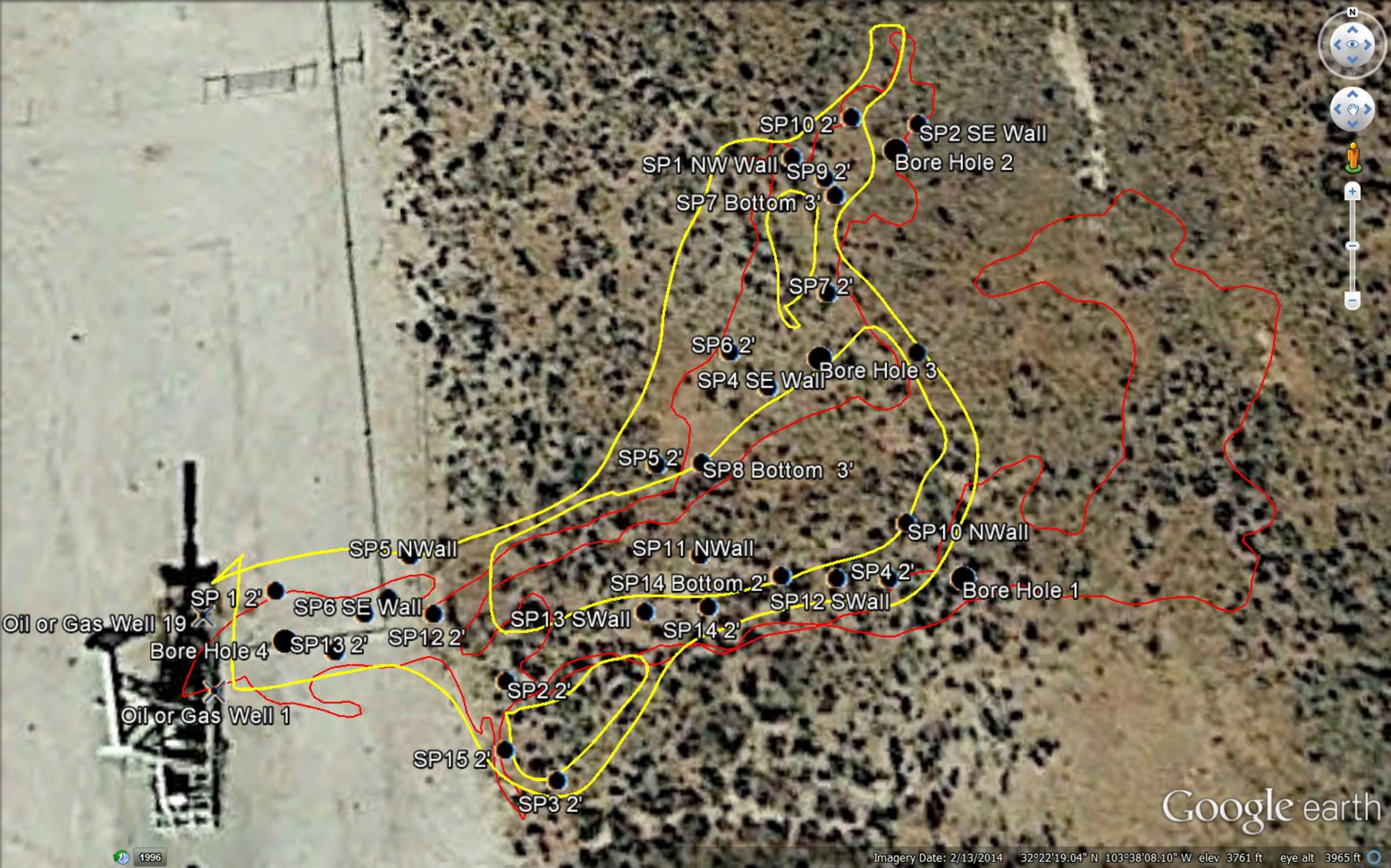
Appendix B – Groundwater

Appendix C – Analytical Results

Appendix D – Photo Documentation

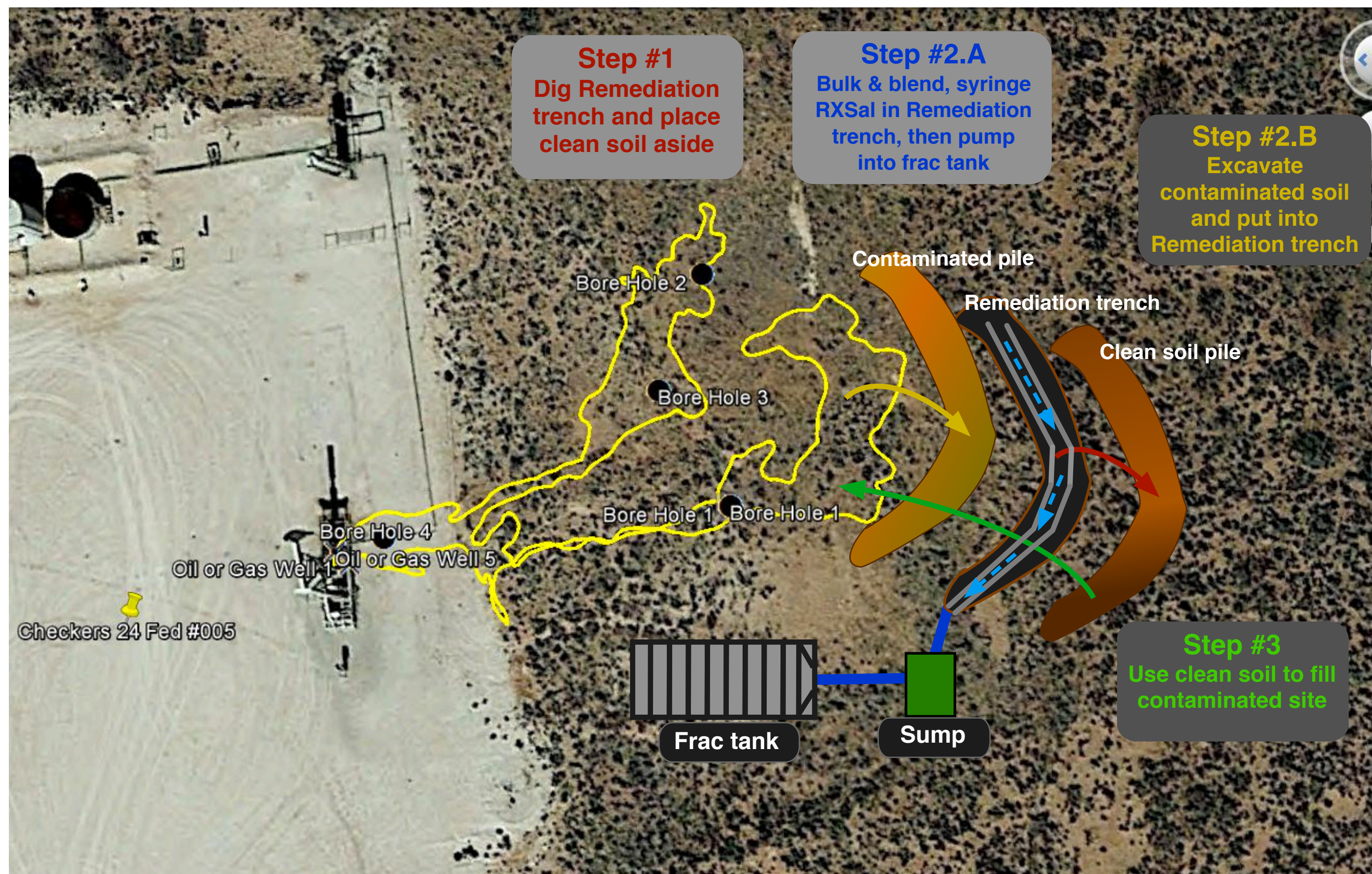
Figure 1

Vicinity Map



Google earth

Figure 2
Site Plan



Appendix A

Final 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

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: Devon Energy Production	Contact: Brett Fulks	
Address: Po Box 250 Artesia, NM 88211	Telephone No. 575-513-9463	
Facility Name: Checkers 24 Federal 5	Facility Type: Oil Well	
Surface Owner State	Mineral Owner Federal	API No. 30-025-33702

LOCATION OF RELEASE

Unit Letter M	Section: 24	Township: 22S	Range 32E	Feet from the 660	North/South Line South	Feet from the 330	East/West Line West	County: Lea
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Latitude 32.371731 Longitude -103.635369

NATURE OF RELEASE

Type of Release: Oil and Produced water release	Volume of Release 15 BBL	Volume Recovered 2bbls
Source of Release Gauge on tubing line at the wellhead	Date and Hour of Occurrence October 23, 2015 4:00 PM	Date and Hour of Discovery October 23, 2015 4:00 PM
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 NMOCD: Kellie Jones	
By Whom? BLM: Assistant Production Foreman, Rebecca Jamison NMOCD: EHS Professional, Brett Fulks	Date and Hour: BLM: October 24, 2015 7:00 PM NMOCD: November 18, 2015 4:00 PM	
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 top of the gauge on the tubing line as the well head blew out resulting in a release of produced water. Upon, discovery of the release the tubing was closed and the well was shut in immediately in order to prevent further release. The gauge has been replaced. A vacuum truck was utilized to remove approximately 2 BBLS of fluid.		
Describe Area Affected and Cleanup Action Taken.* 15 BBLS of oil and produced water mix were released from the tubing line at the wellhead, impacting approximately 4,922.03 sq. ft. of combined pad and pasture area. SESI was contacted to assess and remediate the area, submitting a delineation report and work plan to the BLM and NMOCD. SESI has remediated the site in accordance with said plan and respectfully requests closure of the regulatory file for this site.		
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:		OIL CONSERVATION DIVISION
Printed Name: Brett Fulks		
Title: EHS Representative	Approval Date:	Expiration Date:
E-mail Address: Brett.Fulks@dvn.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 03-22-16 Phone: 575-748-1844		

* 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 02096		ED		2	3	14	22S	32E		627204	3584464*	435	360	75
C 02821	C	LE		2	2	3	14	22S	32E	627303	3584563*	540	340	200
C 02939	C	LE		3	3	1	19	22S	32E	620234	3583042*	280		
C 03717 POD1	C	LE		4	4	1	09	22S	32E	624094	3586365	115	70	45

Average Depth to Water: **256 feet**

Minimum Depth: **70 feet**

Maximum Depth: **360 feet**

Record Count: 4

PLSS Search:

Township: 22S

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 05, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CHECKERS 24 FED #5

Enclosed are the results of analyses for samples received by the laboratory on 10/30/15 8:00.

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:

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

 Received: 10/30/2015
 Reported: 11/05/2015
 Project Name: CHECKERS 24 FED #5
 Project Number: DEV-15-004
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/29/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-1 SURFACE (H502847-01)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	11/03/2015	ND	416	104	400	3.92	

Sample ID: AH-1 1' (H502847-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	11/03/2015	ND	416	104	400	3.92	

Sample ID: AH-1 2' (H502847-03)

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	11/05/2015	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	11/05/2015	ND	2.29	115	2.00	1.45	
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.11	105	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.71	112	6.00	2.34	
Total BTEX	<0.300	0.300	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/03/2015	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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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: 10/30/2015
Reported: 11/05/2015
Project Name: CHECKERS 24 FED #5
Project Number: DEV-15-004
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-1 2' (H502847-03)

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	11/03/2015	ND	203	101	200	4.48	
DRO >C10-C28	42.0	10.0	11/03/2015	ND	202	101	200	8.20	

Surrogate: 1-Chlorooctane 121 % 35-147

Surrogate: 1-Chlorooctadecane 135 % 28-171

Sample ID: AH-2 SURFACE (H502847-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	11/03/2015	ND	416	104	400	3.92		

Sample ID: AH-2 1' (H502847-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	11/03/2015	ND	416	104	400	3.92	

Sample ID: AH-2 2' (H502847-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1810	16.0	11/03/2015	ND	416	104	400	3.92		

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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: 10/30/2015
Reported: 11/05/2015
Project Name: CHECKERS 24 FED #5
Project Number: DEV-15-004
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-2 2.5' (H502847-07)

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	11/05/2015	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	11/05/2015	ND	2.29	115	2.00	1.45	
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.11	105	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.71	112	6.00	2.34	
Total BTEx	<0.300	0.300	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/03/2015	ND	416	104	400	3.92		

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	11/03/2015	ND	203	101	200	4.48	
DRO >C10-C28	14.5	10.0	11/03/2015	ND	202	101	200	8.20	

Surrogate: 1-Chlorooctane 114 % 35-147

Surrogate: 1-Chlorooctadecane 125 % 28-171

Sample ID: AH-3 SURFACE (H502847-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6130	16.0	11/03/2015	ND	416	104	400	3.92		

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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: 10/30/2015
Reported: 11/05/2015
Project Name: CHECKERS 24 FED #5
Project Number: DEV-15-004
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-3 1' (H502847-09)

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	11/03/2015	ND	416	104	400	3.92		

Sample ID: AH-3 2' (H502847-10)

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	11/05/2015	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	11/05/2015	ND	2.29	115	2.00	1.45	
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.11	105	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.71	112	6.00	2.34	
Total BTEx	<0.300	0.300	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

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	11/03/2015	ND	416	104	400	3.92	

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	11/03/2015	ND	203	101	200	4.48	
DRO >C10-C28	<10.0	10.0	11/03/2015	ND	202	101	200	8.20	

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 125 % 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: 10/30/2015
Reported: 11/05/2015
Project Name: CHECKERS 24 FED #5
Project Number: DEV-15-004
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-4 1' (H502847-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11300	16.0	11/03/2015	ND	416	104	400	3.92	

Sample ID: AH-4 2' (H502847-12)

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	11/05/2015	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	11/05/2015	ND	2.29	115	2.00	1.45	
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.11	105	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.71	112	6.00	2.34	
Total BTEx	<0.300	0.300	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/03/2015	ND	416	104	400	3.92	

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	11/03/2015	ND	203	101	200	4.48	
DRO >C10-C28	<10.0	10.0	11/03/2015	ND	202	101	200	8.20	

Surrogate: 1-Chlorooctane 110 % 35-147

Surrogate: 1-Chlorooctadecane 121 % 28-171

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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



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

ANALYSIS REQUEST

BILL TO

Company Name: Safety & Environmental Solutions, Inc.

Project Manager: Bob Allen

Address: 703 East Clinton

City: Hobbs State: NM Zip: 88240

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

Project #: DEN-15-004 Project Owner: Devon

Project Name: CHECKERS 2470 S

Project Location: EDDY COUNTRY

Sampler Name: Ben Jerry

FOR USE ONLY

Lab I.D. Sample I.D.

HS03847

FOR LAB USE ONLY		Sample I.D.	(G)RAB OR (C)OMP.	#CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH (8)	BTEX	Chloride
Lab I.D.	H502847				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
					ACID/BASE:	ICE / COOL	OTHER :										
1	Att-1 Surface	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	Att-1 1st	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	Att-1 2nd	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	Att-2 Surface	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	Att-2 1st	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	Att-2 2nd	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	Att-2 2.5th	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10/29																	

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Sampler Relinquished By: Ben Jerry Date: 10/30/15 Received By: Scott Anderson

Relinquished By: Date: Received By:

Temp. Sample Condition Checked By: 36.2 Cool Intact Yes Yes

Sampler - UPS - Bus - Other: #54

Cardinal cannot accept verbal changes. Please fax written changes to 575-393-0476.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

Page 2 of 2

[illegible]



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

January 05, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CHECKERS

Enclosed are the results of analyses for samples received by the laboratory on 12/18/15 13:10.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:

Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240

Project: CHECKERS
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388

Reported:
05-Jan-16 13:58

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOIL SAMPLE	H503291-01	Soil	18-Dec-15 11:45	18-Dec-15 13:10

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240

Project: CHECKERS
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388

Reported:
05-Jan-16 13:58

SOIL SAMPLE H503291-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Green Analytical Laboratories

Saturated Paste Extraction

Calcium	4420		50.0	mg/L	50	B512255	JGS	31-Dec-15	EPA200.7	
Magnesium	691		50.0	mg/L	50	B512255	JGS	31-Dec-15	EPA200.7	
SAR	54.3			[blank]	1	B512255	JGS	31-Dec-15	Calculation	
Sodium	14700		100	mg/L	50	B512255	JGS	31-Dec-15	EPA200.7	

Sodium Saturation

Cation Exchange Capacity	5.22		0.04	meq/100 g	1	B512256	JGS	31-Dec-15	USDA-60 19	
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Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble)

Exchangable Sodium	27.1		1.00	%	1	B512256	JGS	31-Dec-15	USDA-60	
Percentage										
Sodium	325		2.00	mg/kg dry	1	B512256	JGS	31-Dec-15	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: CHECKERS
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
05-Jan-16 13:58**Saturated Paste Extraction - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B512255 - Paste Extract

Duplicate (B512255-DUP1)	Source: 1512142-01			Prepared & Analyzed: 31-Dec-15					
Sodium	129	20.0	mg/L		131		1.75	20	
Magnesium	3.36	10.0	mg/L		3.22		4.25	20	
Calcium	11.6	10.0	mg/L		12.3		5.49	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: CHECKERS
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
05-Jan-16 13:58**Sodium Saturation - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B512256 - Exchangable (Ammonium Acetate less Soluble)**Blank (B512256-BLK1)**

Prepared & Analyzed: 31-Dec-15

Cation Exchange Capacity ND 0.04 meq/100 g

Duplicate (B512256-DUP1)

Source: H503291-01

Prepared & Analyzed: 31-Dec-15

Cation Exchange Capacity 4.39 0.04 meq/100 g 5.22 17.3 200

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CHECKERS
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 05-Jan-16 13:58

Exchangable Metals by ICP (Ammonium Acetate Extractable - Soluble) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B512256 - Exchangable (Ammonium Acetate less Soluble)
Blank (B512256-BLK1)

Prepared & Analyzed: 31-Dec-15

Sodium	ND	2.00	mg/kg dry							
Exchangable Sodium Percentage	ND	1.00	%							

Duplicate (B512256-DUP1)

Source: H503291-01

Prepared & Analyzed: 31-Dec-15

Sodium	325	2.00	mg/kg dry		325			0.00	20	
Exchangable Sodium Percentage	32.2	1.00	%		27.1			17.3	20	

Cardinal Laboratories

*=Accredited Analyte

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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

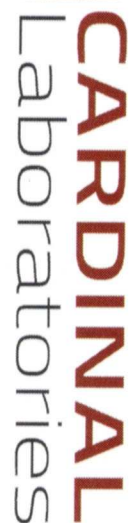
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Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

#54

January 27, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CHECKERS 24 FED #5

Enclosed are the results of analyses for samples received by the laboratory on 01/26/16 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:

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

 Received: 01/26/2016
 Reported: 01/27/2016
 Project Name: CHECKERS 24 FED #5
 Project Number: DEV-15-004
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/21/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: SP-1 NW WALL (H600173-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/27/2016	ND	416	104	400	0.00	

Sample ID: SP-2 SE WALL (H600173-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/27/2016	ND	416	104	400	0.00	

Sample ID: SP-3 NW WALL (H600173-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/27/2016	ND	416	104	400	0.00	

Sample ID: SP-4 SE WALL (H600173-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/27/2016	ND	416	104	400	0.00	

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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: 01/26/2016
Reported: 01/27/2016
Project Name: CHECKERS 24 FED #5
Project Number: DEV-15-004
Project Location: EDDY COUNTY, NM

Sampling Date: 01/21/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: SP-5 NW WALL (H600173-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/27/2016	ND	416	104	400	0.00	

Sample ID: SP-6 SE WALL (H600173-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/27/2016	ND	416	104	400	0.00	

Sample ID: SP-7 BOTTOM 3' (H600173-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/27/2016	ND	416	104	400	0.00	

Sample ID: SP-8 BOTTOM 3' (H600173-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/27/2016	ND	432	108	400	3.64	

Sample ID: SP-9 BOTTOM 2' (H600173-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/27/2016	ND	432	108	400	3.64	

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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: 01/26/2016
Reported: 01/27/2016
Project Name: CHECKERS 24 FED #5
Project Number: DEV-15-004
Project Location: EDDY COUNTY, NM

Sampling Date: 01/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: SP-10 NORTH WALL (H600173-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/27/2016	ND	432	108	400	3.64	

Sample ID: SP-11 NORTH WALL (H600173-11)

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	01/27/2016	ND	432	108	400	3.64	

Sample ID: SP-12 SOUTH WALL (H600173-12)

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	01/27/2016	ND	432	108	400	3.64	

Sample ID: SP-13 SOUTH WALL (H600173-13)

Chloride, SM4500Cl-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	01/27/2016	ND	432	108	400	3.64	

Sample ID: SP-14 BOTTOM 2' (H600173-14)

Chloride, SM4500Cl-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	01/27/2016	ND	432	108	400	3.64	

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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: 01/26/2016
 Reported: 01/27/2016
 Project Name: CHECKERS 24 FED #5
 Project Number: DEV-15-004
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/25/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: SP-15 SURFACE (H600173-15)

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	01/27/2016	ND	432	108	400	3.64		

Sample ID: SP-16 SURFACE (H600173-16)

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	01/27/2016	ND	432	108	400	3.64	

Sample ID: SP-17 SURFACE (H600173-17)

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	01/27/2016	ND	432	108	400	3.64		

Sample ID: SP-18 SURFACE (H600173-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/27/2016	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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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

ORDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

[illegible]

March 22, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEV-15-004

Enclosed are the results of analyses for samples received by the laboratory on 03/17/16 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:

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

 Received: 03/17/2016
 Reported: 03/22/2016
 Project Name: DEV-15-004
 Project Number: DEV-15-004
 Project Location: NONE GIVEN

 Sampling Date: 02/18/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP-1 SURFACE (H600590-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/18/2016	ND	432	108	400	0.00	O-04

Sample ID: SP-1 1' (H600590-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/18/2016	ND	432	108	400	0.00	O-04

Sample ID: SP-1 2' (H600590-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/18/2016	ND	432	108	400	0.00	O-04

Sample ID: SP-2 SURFACE (H600590-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/18/2016	ND	432	108	400	0.00	O-04

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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: 03/17/2016
Reported: 03/22/2016
Project Name: DEV-15-004
Project Number: DEV-15-004
Project Location: NONE GIVEN

Sampling Date: 02/18/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP-2 1' (H600590-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	03/18/2016	ND	432	108	400	0.00	O-04	

Sample ID: SP-2 2' (H600590-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	03/18/2016	ND	432	108	400	0.00	O-04

Sample ID: SP-3 SURFACE (H600590-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/21/2016	ND	448	112	400	7.41	O-04	

Sample ID: SP-3 1' (H600590-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	03/21/2016	ND	448	112	400	7.41	O-04

Sample ID: SP-3 2' (H600590-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	03/21/2016	ND	448	112	400	7.41	O-04	

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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: 03/17/2016
Reported: 03/22/2016
Project Name: DEV-15-004
Project Number: DEV-15-004
Project Location: NONE GIVEN

Sampling Date: 02/18/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP-4 SURFACE (H600590-10)

Chloride, SM4500Cl-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	03/21/2016	ND	448	112	400	7.41	O-04	

Sample ID: SP-4 1' (H600590-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	03/21/2016	ND	448	112	400	7.41	O-04	

Sample ID: SP-4 2' (H600590-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	03/21/2016	ND	448	112	400	7.41	O-04

Sample ID: SP-5 SURFACE (H600590-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	03/21/2016	ND	448	112	400	7.41	O-04	

Sample ID: SP-5 1' (H600590-14)

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	03/21/2016	ND	448	112	400	7.41	O-04	

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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: 03/17/2016
Reported: 03/22/2016
Project Name: DEV-15-004
Project Number: DEV-15-004
Project Location: NONE GIVEN

Sampling Date: 02/18/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP-5 2' (H600590-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	03/21/2016	ND	448	112	400	7.41	O-04

Sample ID: SP-6 SURFACE (H600590-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/21/2016	ND	448	112	400	7.41	O-04

Sample ID: SP-6 1' (H600590-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	03/21/2016	ND	448	112	400	7.41	O-04

Sample ID: SP-6 2' (H600590-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	03/21/2016	ND	448	112	400	7.41	O-04

Sample ID: SP-7 SURFACE (H600590-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	03/21/2016	ND	448	112	400	7.41	O-04

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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: 03/17/2016
Reported: 03/22/2016
Project Name: DEV-15-004
Project Number: DEV-15-004
Project Location: NONE GIVEN

Sampling Date: 02/18/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP-7 1' (H600590-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	03/21/2016	ND	448	112	400	7.41	O-04	

Sample ID: SP-7 2' (H600590-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	03/21/2016	ND	448	112	400	7.41	O-04

Sample ID: SP-9 SURFACE (H600590-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	03/21/2016	ND	448	112	400	7.41	O-04

Sample ID: SP-9 1' (H600590-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	03/21/2016	ND	448	112	400	7.41	O-04	

Sample ID: SP-9 2' (H600590-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/21/2016	ND	448	112	400	7.41	O-04

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Bob Allen
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Fax To: (575) 393-4388

Received: 03/17/2016
Reported: 03/22/2016
Project Name: DEV-15-004
Project Number: DEV-15-004
Project Location: NONE GIVEN

Sampling Date: 02/18/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP-10 SURFACE (H600590-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	03/21/2016	ND	448	112	400	7.41	O-04	

Sample ID: SP-10 1' (H600590-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/21/2016	ND	448	112	400	7.41	O-04

Sample ID: SP-10 2' (H600590-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-11 SURFACE (H600590-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-11 1' (H600590-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	03/21/2016	ND	416	104	400	7.41	O-04

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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: 03/17/2016
Reported: 03/22/2016
Project Name: DEV-15-004
Project Number: DEV-15-004
Project Location: NONE GIVEN

Sampling Date: 02/18/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP-11 2' (H600590-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-12 SURFACE (H600590-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-12 1' (H600590-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-12 2' (H600590-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-13 SURFACE (H600590-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/21/2016	ND	416	104	400	7.41	O-04

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 Received: 03/17/2016
 Reported: 03/22/2016
 Project Name: DEV-15-004
 Project Number: DEV-15-004
 Project Location: NONE GIVEN

 Sampling Date: 02/18/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP-13 1' (H600590-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	351	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-13 2' (H600590-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-14 SURFACE (H600590-37)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-14 1' (H600590-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-14 2' (H600590-39)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	03/21/2016	ND	416	104	400	7.41	O-04

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 Fax To: (575) 393-4388

 Received: 03/17/2016
 Reported: 03/22/2016
 Project Name: DEV-15-004
 Project Number: DEV-15-004
 Project Location: NONE GIVEN

 Sampling Date: 02/18/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP-15 SURFACE (H600590-40)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-15 1' (H600590-41)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-15 2' (H600590-42)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	03/21/2016	ND	416	104	400	7.41	O-04

Sample ID: SP-4 2' (H600590-43)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	03/21/2016	ND	416	104	400	7.41	

Sample ID: SP-5 2' (H600590-44)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	03/21/2016	ND	416	104	400	7.41	

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

 Received: 03/17/2016
 Reported: 03/22/2016
 Project Name: DEV-15-004
 Project Number: DEV-15-004
 Project Location: NONE GIVEN

 Sampling Date: 03/15/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP-6 1' (H600590-45)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/21/2016	ND	416	104	400	7.41	

Sample ID: SP-6 2' (H600590-46)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	03/21/2016	ND	416	104	400	7.41	

Sample ID: SP-7 1' (H600590-47)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/21/2016	ND	432	108	400	11.8	

Sample ID: SP-7 2' (H600590-48)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	03/21/2016	ND	432	108	400	11.8	

Sample ID: SP-11 1' (H600590-49)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/21/2016	ND	432	108	400	11.8	

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Analytical Results For:

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

Received: 03/17/2016
Reported: 03/22/2016
Project Name: DEV-15-004
Project Number: DEV-15-004
Project Location: NONE GIVEN

Sampling Date: 03/15/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP-11 2' (H600590-50)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/21/2016	ND	432	108	400	11.8	

Sample ID: SP-14 2' (H600590-51)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/21/2016	ND	432	108	400	11.8	

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Notes and Definitions

O-04	This sample was analyzed outside the EPA recommended holding time.
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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 86

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 #:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H000590

SP-1 (C) Fuel

" 187

" 257

SP-2 (C) Fuel

" 187

" 257

SP-3 (C) Fuel

" 187

" 257

SP-4 (C) Fuel

" 187

" 257

SP-5 (C) Fuel

" 187

" 257

SP-6 (C) Fuel

" 187

" 257

(G) RAB OR (C) OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER : Heat

DATE

TIME

2016

0930

0940

0950

1002

1005

1010

1015

1020

1030

1030

1030

1030

1030

1030

1030

1030

1030

1030

Chloride

Phone Result: ☐ Yes ☒ No Add'l Phone #:

Fax Result: ☐ Yes ☒ No Add'l Fax #:

REMARKS:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

23.60

Sample Condition

CHECKED BY: (Initials)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

208 \$6.48

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

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions		P.O. #:	
Project Manager: Bob Allen		Company: Same	
Address: 703 East Clinton, PO Box 1613		Attn:	
City: Hobbs		Address:	
Phone #: 575 397-0510		City:	
Fax #: 575 393-4388		State:	
Project #: 2015-004		Zip:	
Project Owner:		Phone #:	
Project Name:		Fax #:	
Project Location:		SAMPLING	
Sampler Name: Bob Allen		DATE	
FOR LAB USE ONLY		TIME	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
HL000590	SP-4 1 FT	G-1	1
	SP-4 2 FT		
	SP-5 SURFACE		
	SP-5 1 FT		
	SP-5 2 FT		
	SP-6 SURFACE		
	SP-6 1 FT		
	SP-6 2 FT		
	SP-7 SURFACE		
	SP-7 1 FT		
	SP-7 2 FT		
	SP-7 3 FT		
	SP-7 4 FT		
	SP-7 5 FT		
	SP-7 6 FT		
	SP-7 7 FT		
	SP-7 8 FT		
	SP-7 9 FT		
	SP-7 10 FT		
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

3 of 6 408

Company Name: Safety and Environmental Solutions		P.O. #:		BILL TO												ANALYSIS REQUEST																											
Project Manager: Bob Allen		Company: Same																																									
Address: 703 East Clinton, PO Box 1613		Attn:																																									
City: Hobbs		Address:																																									
State: NM Zip: 88240		City:																																									
Phone #: 575 397-0510 Fax #: 575 393-4388		State:																																									
Project #: 15-00 Project Owner:		Zip:																																									
Project Name:		Phone #:																																									
Project Location:		Fax #:																																									
Sample Name: Bob Allen																																											
FOR LAB USE ONLY																																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER : Neat		DATE		TIME		Chloride													
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

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Company Name: Safety and Environmental Solutions		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager: Bob Allen		Company: Same																									
Address: 703 East Clinton, PO Box 1613		Attn:																									
City: Hobbs		Address:																									
Phone #: 575 397-0510		City:																									
Fax #: 575 393-4388		State:																									
Project #: 250-15-004		Zip:																									
Project Owner:																											
Project Name:																											
Project Location:																											
Sampler Name: Bob Allen																											
FOR LAB USE ONLY																											
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

52666-10

Company Name: Safety and Environmental Solutions		P.O. #:		BILL TO																							
Project Manager: Bob Allen		Company: Same		ANALYSIS REQUEST																							
Address: 703 East Clinton, PO Box 1613		Attn:																									
City: Hobbs		Address:																									
Phone #: 575 397-0510		City:																									
Fax #: 575 393-4388		State:																									
Project #: DE-15-004		Zip:																									
Project Name:		Phone #:																									
Project Location:		Fax #:																									
Sampler Name: Bob Allen		SAMPLING																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV	DATE	TIME																		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:															
41	SP-15 1st	G	1	X									2016	405	X	Chloride											
42	SP-15 2nd												2/18	1410													
43	SP-4 2nd												2/15	0910													
44	SP-5 2nd												0930														
45	SP-6 1st												0931														
46	SP-6 2nd												0934														
47	SP-7 1st												0940														
48	SP-7 2nd												0943														
49	SP-11 1st												0951														
50	SP-11 2nd												0940														
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: [Signature]		Date: 2/17/16		Received By: [Signature]		Date: 2/17/16		Sample Condition		Checked By: [Signature]		Phone Result: [] Yes [X] No		Add'l Phone #:													
Delivered By: (Circle One)		Time: 3:00 PM		Time: 3:00 PM		Cool [] Yes [X] No		Intact [] Yes [X] No		Initials: [Signature]		Fax Result: [] Yes [X] No		Add'l Fax #:													
Sampler - UPS - Bus - Other:		23.62		23.62		[] Yes [X] No		[] Yes [X] No		[Signature]		[] Yes [X] No		[] Yes [X] No													



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

[illegible]

Appendix D

Site Photos

**Devon Energy
Checkers 24 Federal #005
API 30-025-33702**



Leak source



View from west to leak source



Spill exiting pad to pasture (west)



Source of leak



West of location pasture impact



Pasture Impact

Devon Energy
Checkers 24 Federal #005
API 30-025-33702



1-21-16 Excavation of Impact



1-22-16 Liner Installation



1-22-16 Installation of drain infrastructure



Surface Gradient



Surface drain infrastructure



Leachate line to Frac Tank for recycling

Devon Energy
Checkers 24 Federal #005
API 30-025-33702
Site Completion

