# No. 0326 P. 1∕2 **HOBBS OCD**

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 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 JUN 1 1 2012

For n C-14 Revised Aug 1st 8, 20

Submit 1 Copy to app opnate Distric Offic: **RECEIVED** Submit 19.15.2 MA

# **Release Notification and Corrective Action**

		OPERATOR	X Initial Report	🔲 Fi ial Rep
Name of Company Cimarex Energy		Contact Mark Bishop		
Address 2020 West Bender		Telephone No. 575-602-1002		
Facility Name Southeast Lusk 33 Fed #2H		Facility Type Producing well		
Surface Owner	Mineral Owner	BLM	API No. 30-0. 5-4	0255

LOCATION	OF RELEASE
----------	------------

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	Coun y
A	33	198	32E	530	North	737	East	Lea

Latitude N 32' 37'21.59" Longitude W 103' 45' 53.92

#### NATURE OF RELEASE Volume Recover :d 5bbl Volume of Release 20bbl Type of Release Crude oil Date and Hour of Occurrence 6/1//2 Date and Hour o Discovery 6/ Source of Release Flowline If YES. To Whom? Was Immediate Notice Given? X Yes No Not BLM Required By Whom? Mark Bishop Date and Hour If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes X☐ No If a Watercourse was Impacted, Describe Fully.\* GW 8400

Describe Cause of Problem and Remedial Action Taken.\*

3" poly flowline failed releasing crude oil on edge of neighboring oil company location and sprayed into pasture. Pooled oil on edge of location some saturation in deep sand and light over spray on soil and vegetation further east. Contacted BLM and Safety and Environmental Se vices to deline at impact to environment and recommend remediation course of action.

Describe Area Affected and Cleanup Action Taken.\*

Recovered standing oil with vacuum truck. Removed contaminated calcehe from well location. Instructed by BLM to cease clean up in pasture u itil the land could be evaluated from previous archeological documents.

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 will be may endar, ger 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 lial ility should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surfac : 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 off regulations.

militi	OIL CONSER	VATION	DIVI <u>SION</u>
Signature: //////// Jisher			
Printed Name: Mark Bishop	Approved by Environmental Special	ist: .9Jecff	Lekine.
Title: Production Foreman	Approval Date: 6/11/12	Expiration I	Date: 8 [13]12
E-mail Address: Mbishop@Cimarex.com	Conditions of Approval: SUBMIT	FINAL	Attached
Date: 6-11-12 Phone:575-602-1002	C-141 BY 8/13/12		IRP-7-12-2837

\* Attach Additional Sheets If Necessary

# HOBBS OCD

JUN 29 2012

RECEIVED

# Cimarex Energy Company Southeast Lusk 33 Federal #2 Section 33, Township 19S, Range 32E Lea County, New Mexico

**Work Plan** 

June 25, 2012



**Prepared for:** 

Cimarex Energy Company 600 North Marienfeld, Suite 600 Midland, Texas 79701

By:

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

Comments recorded Steph Letring Env: Speiralist NMOCD - PISE 1 06/29/12

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# I. Company Contacts

Company Representative	Company	Telephone	E-mail 😒 🗧 🕅
Mark Bishop	Cimarex Energy Co.	575-602-1002	mbishop@cimarex.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

# II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Cimarex Energy Company to perform a site assessment at the Southeast Lusk 33 Federal #2H. This location is the site of an active well and battery. The location is located in Section 33, Township 19 South, and Range 32 East. According to the C-141 dated June 11, 20-12, a 3" poly flowline releasing crude oil on edge of neighboring oil company location and sprayed into pasture. Pooled oil on edge of location some saturation in deep sand and light over spray on soil and vegetation further east.

# III. Surface and Ground Water

According the database provided by the United States Geological Survey online database, the closest depth of water in this area located 1.1 miles southeast in section 34 of Township 19 South, Range 32 East. The depth of water is 246.19' February 1996.

# IV. Characterization

The target cleanup levels are reached by the application of the "Unlined Surface Impoundment Closure Guidelines New Mexico Oil Conservation Division (NMOCD) – February, 1993 to this site is 5000 parts per million (ppm) Total Petroleum Hydrocarbons (TPH). Application of the New Mexico Oil Conservation Division's ranking criteria for contaminated soils at this site is presented below:

Depth to Ground Water:								
(Vertical distance from contaminants to	Less than 50 feet	20 points						
	50 feet to 99 feet	10 points						
groundwater)	>100 feet	0 points	X					
Wellhead Protection Area:			The se					
(Less than 200 feet from a private domestic Yes 20 points								
water source; or less than 1000 feet from all	No	0 points	X					
other water sources)								
Distance to Surface Water			177 199 1. 19 p					
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points						
ponds, rivers, streams, creeks, irrigation 200 feet to 1000 feet 10 points								
canals and ditches)	>1000 feet	0 points	X					
	<b>RANKING SCORE (T</b>	OTAL POINTS)	0					

# V. Work Performed

On June 12, 2012, Mr. Bob Allen SESI representative was onsite to assess release area. The location area was mapped utilizing a Trimble Geo Explorer XM handheld device.

Samples were collected and properly preserved and transported under chain of custody to Cardinal Labs of Hobbs, New Mexico. The samples were analyzed for Chlorides (EPA Method 4500CI-B).

The results of the analysis are as follows:

Lab ID	Sample ID	Cl (mg/kg)
Analysis Date:		06/18/12
H201325-01	Chloride Sample Point 1	6,480
H201325-02	Chloride Sample Point 2	352
H201325-03	Chloride Sample Point 3	80

On June 14, 2012, Mr. Bob Allen SESI representative was onsite to delineate the release area. Three test trenches were installed ranging from depths of 1-4 ft bgs.

Samples were collected and properly preserved and transported under chain of custody to Cardinal Labs of Hobbs, New Mexico. The samples were analyzed for Chlorides (EPA Method 4500CI-B), Total Petroleum Hydrocarbons (TPH)(EPA Method 8015M), and Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)(EPA Method 8021B).

Lab ID	Sample ID	Cl (mg/kg)	TP (mg		Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene	Total Xylenes
			GRO C6-C10	DRO >C <sub>10</sub> -C <sub>28</sub>			(mg/kg)	(mg/kg)
Analysis Date	1	06/19/12	06/19/12	06/19/12	06/21/12	. 06/21/12	06/21/12	06/21/12
H201371-03	TT-1, 2'	976	106	681	<0.050	0.830	1.92	6.08
H201371-04	TT-1, 4'	80.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150
H201371-01	TT-2, 2'	3,760	1,430	13,100	0.598	11.5	17.3	52.7
H201371-02	TT-2, 3'	64.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150
H201371-05	TT-3, 1'	<16.0	<10.0	14.7	<0.050	<0.050	<0.050	<0:150

The results of the analysis are as follows:

# VI. Action Plan

The results of the analysis indicate that the only distribution of chloride and TPH contamination is located in the immediate release area. The extent of contamination is restricted to the top 2 feet of topsoil/sand above the caliche layer.

It is requested that entire area of contamination will be excavated to a depth of 2' below ground surface. Samples will be transported to Cardinal Laboratories of Hobbs, New Mexico to be analyzed for Chlorides (EPA Method 4500-Cl B). Clean topsoil will then be used as backfill and contoured to grade.

The spray area away from the immediate release area shows minor levels of contamination only on the surface and 0" to 6" BGS. It is recommended that this area be mowed and/or disced in place.

Once all remediation is completed the area will be reseeded in the spring as per landowner's specifications.

After completion of the location a report will be filed with the New Mexico Oil Conservation Division (NMOCD).

# VII. Figures and Appendices

Figure 1 – Vicinity Map Figure 2 – Site Map Appendix A – Analytical Results Appendix B – C-141 Figure 1 Vicinity Map

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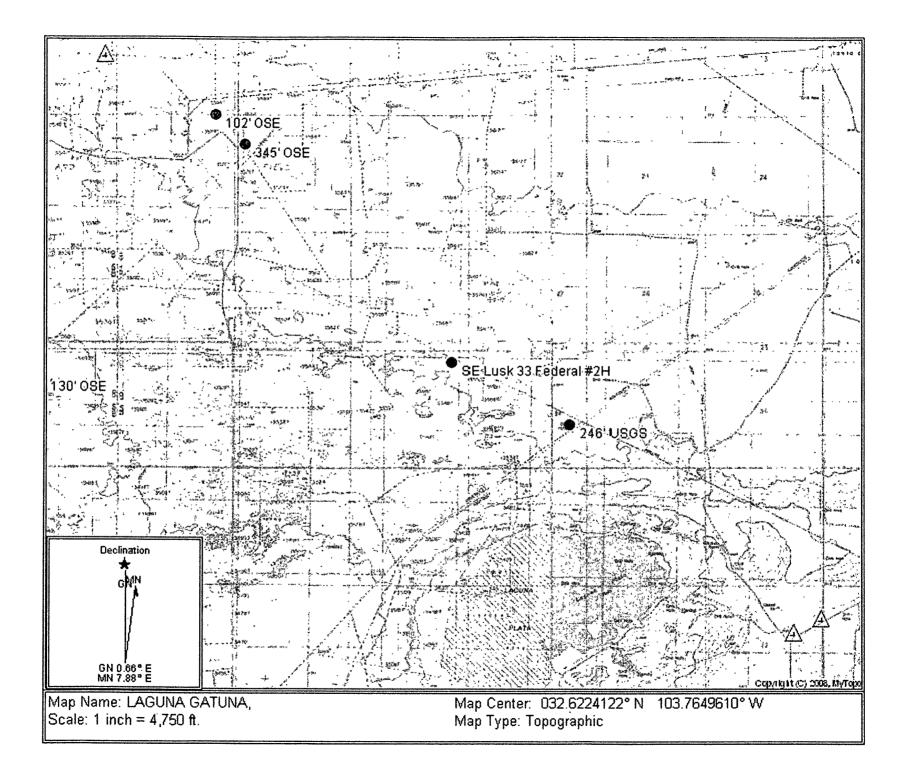
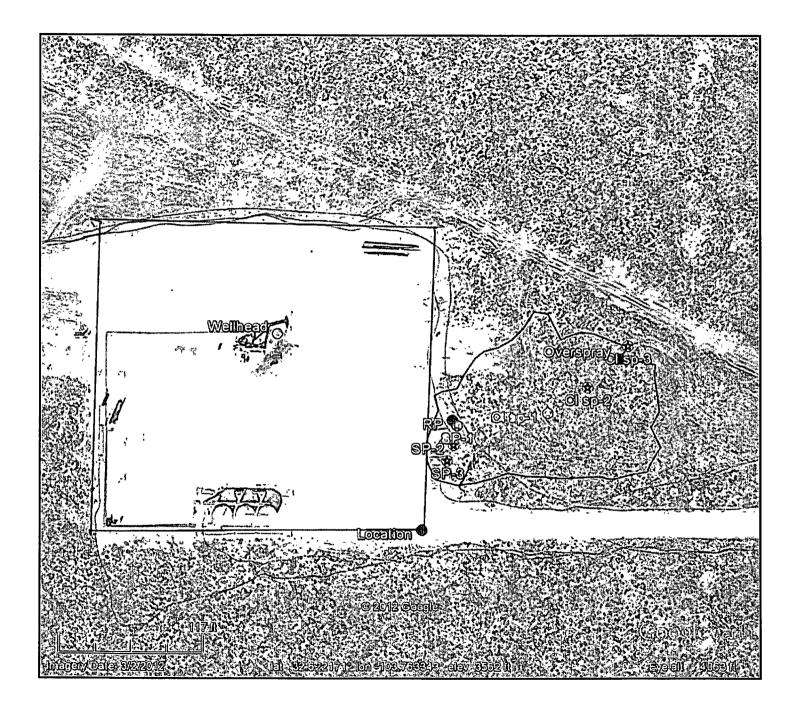


Figure 2 Site Map .

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Appendix A Analytical Results Appendix B C-141

strict 1 25 N. French Dr., Hobbs, NM 88240		of New Mexic als and Natural I				Form C-141 Revised August 8, 2011
I S First St., Artesia, NM 88210			*	Submit 1		-
strict III 00 Rio Brazos Road, Aztec, NM 87410		servation Divis uth St. Francis		Submit 1	accordance w	iate District Office in ith 19.15.29 NMAC.
strict IV 20 S St Francis Dr. Santa Fe, NM 87505			Fe, NM 87505			
Releas		ion and Cor		ction		
	•	OPERATO			Initial Report	Final Report
Name of Company Cimarex Energy		Contact Mark			A	
acility Name Southeast Lusk 33 Fed #2H		Telephone No Facility Type				
urface Owner	Mineral Own	er BLM		AP	I No. 30-025-4	10255
	LOCAT	ON OF RELI	EASE	, ,		· · · · · · · · · · · · · · · · · · ·
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June 18, 2012

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

RE: CIM-12-009

Enclosed are the results of analyses for samples received by the laboratory on 06/13/12 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/13/2012	Sampling Date:	06/12/2012
Reported:	06/18/2012	Sampling Type:	Soil
Project Name:	CIM-12-009	Sampling Condition:	Cool & Intact
Project Number:	SE LUSK FED 33-2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

# Sample ID: CHLORIDE SAMPLE #1 (H201325-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	06/18/2012	ND	432	108	400	3.77	

# Sample ID: CHLORIDE SAMPLE #2 (H201325-02)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	06/18/2012	ND	432	108	400	3.77		

# Sample ID: CHLORIDE SAMPLE #3 (H201325-03)

Chloride, SM4500Cl-B	14500Cl-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	06/18/2012	ND	432	108	400	3.77	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Lability and Damages Cardinal's liability and clent's exclusive remedy for any dam arising, whether based in contract or tort, shall be imited to the amount paid by clent for analyses. All clams, including those for negligence and any other cause whistoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, busness interruptors, loss of use, or loss of profits incurred by client, its subsidiaries, afflicates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the abuse stated reasons or otherwse Results relate only to the samples demited above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

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 SM4500CI-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

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE. Lability and Damages Cardmai's liability and client's exclusive remedy for any dam arising, whether based in contract or tort, shall be limited to the amount paid by dient for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarles, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 Eax (505) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

•	(505) 393-2326	Fax (505) 393-24	176										,										Page_	o	í	-	
Company Name:	Safety & Env	ironmental S	Soli	utio	ons,	In	с.	ŀ			B)	LL	TO		35	1				ANA	LYSI	S RI	QŬĔ	ST			
Project Manager	Bob Allen								?. <i>o.</i>	Ħ.										1							
Address:	703 East Clin	iton							Žom	par	ny:	Sa	me		•			)				Į.					
City:	Hobbs	State: NM	Zip:	88	324(	)			Attn																		
Phone #:	575-397-0510							,	١dd	ess	<b>i</b> :										Ì						
Project #: L	IM-12-009	Project Owner	C	11	25	<u>ņe</u>	×		City:																		
Project Name:	SE LUSK	FED 33	- 2-					!	State	<b>∍</b> :	,	Zip	:			ŝ		1	1								
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Page 4 of 4



June 22, 2012

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

RE: SE LUSK FED 33-2

Enclosed are the results of analyses for samples received by the laboratory on 06/15/12 16:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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,

Celeg & Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/15/2012	Sampling Date:	06/14/2012
Reported:	06/22/2012	Sampling Type:	Soil
Project Name:	SE LUSK FED 33-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CIMAREX		

# Sample ID: TEST TRENCH - 2, 2' (H201371-01)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.598	0.500	06/21/2012	ND	1.90	95.1	2.00	5.97	
Toluene*	11.5	0.500	06/21/2012	ND	1.98	99.2	2.00	9.57	
Ethylbenzene*	17.3	0.500	06/21/2012	ND	2.08	104	2.00	13.6	
Total Xylenes*	52.7	1.50	06/21/2012	ND	6.46	108	6.00	15.1	
Surrogate. 4-Bromofluorohenzene (PIL	167 9	% 89 4-12	6						
Chloride, SM4500Cl-8	ma/	ka	Analyze	d Bv: AP					

Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	06/19/2012	ND	432	108	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1430	50.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	13100	50.0	06/19/2012	ND	185	92.7	200	2.72	
Surrogate. 1-Chlorooctane	274	65.2-14	0						
Surrogate. 1-Chlorooctadecane	88 1	% 63 6-15	4						

#### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Kerne

Celey D. Keene, Lab Director/Quality Manager



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## Analytical Results For:

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

Received:	06/15/2012	Sampling Date:	06/14/2012
Reported:	06/22/2012	Sampling Type:	Soil
Project Name:	SE LUSK FED 33-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CIMAREX		

## Sample ID: TEST TRENCH - 2, 3' (H201371-02)

BTEX 80218	mg/	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2012	ND	1.90	95.1	2.00	5.97	
Toluene*	<0.050	0.050	06/21/2012	ND	1.98	99.2	2.00	9.57	
Ethylbenzene*	<0.050	0.050	06/21/2012	ND	2.08	104	2.00	13.6	
Total Xylenes*	<0.150	0.150	06/21/2012	ND	6.46	108	6.00	15.1	
Surrogate. 4-Bromofluorobenzene (PIL	105 \$	% 89 4-12	6				<u> </u>		
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/19/2012	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	<10.0	10.0	06/19/2012	ND	185	92.7	200	2.72	
Surrogate <sup>•</sup> 1-Chlorooctane	98.7	65.2-14	0						
Surrogate. 1-Chlorooctadecane	1179	63 6-15	4						

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Celez Di Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/15/2012	Sampling Date:	06/14/2012
Reported:	06/22/2012	Sampling Type:	Soil
Project Name:	SE LUSK FED 33-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CIMAREX		

### Sample ID: TEST TRENCH - 1, 2' (H201371-03)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2012	ND	1.90	95.1	2.00	5.97	
Toluene*	0.830	0.050	06/21/2012	ND	1.98	99.2	2.00	9.57	
Ethylbenzene*	1.92	0.050	06/21/2012	ND	2.08	104	2.00	13.6	
Total Xylenes*	6.08	0.150	06/21/2012	ND	6.46	108	6.00	15.1	
Surrogate: 4-Bromofluorobenzene (PIE	159 % 89.4-12		6						
Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	06/19/2012	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	106	10.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	681	10.0	06/19/2012	ND	185	92.7	200	2.72	
Surrogate 1-Chlorooctane	106 %	65 2-14	0						
Surrogate: 1-Chlorooctadecane	119%	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/15/2012	Sampling Date:	06/14/2012
Reported:	06/22/2012	Sampling Type:	Soil
Project Name:	SE LUSK FED 33-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CIMAREX		

### Sample ID: TEST TRENCH - 1, 4' (H201371-04)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2012	ND	1.90	95.1	2.00	5.97	
Toluene*	<0.050	0.050	06/21/2012	ND	1.98	99.2	2.00	9.57	
Ethylbenzene*	<0.050	0.050	06/21/2012	ND	2.08	104	2.00	13.6	
Total Xylenes*	<0.150	0.150	06/21/2012	ND	6.46	108	6.00	15.1	
Sui rogate · 4-Bromofluorobenzene (PIL	106 \$	% 89 4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/19/2012	ND	432	108	400	3.77	
ТРН 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2012	ND	180	90.1	200	2.33	
DRO >C10-C28	<10.0	10.0	06/19/2012	ND	185	92.7	200	2.72	
Surrogate: 1-Chlorooctane	917% 65.2-14		0						
Surrogate 1-Chlorooctadecane	109 9	63 6-15	4						

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/15/2012	Sampling Date:	06/14/2012
Reported:	06/22/2012	Sampling Type:	Soil
Project Name:	SE LUSK FED 33-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CIMAREX		

# Sample ID: TEST TRENCH - 3, 1' (H201371-05)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	ne* <0.050 0.050		06/21/2012	ND	1.90	95.1	2.00	5.97		
Toluene*	<0.050	0.050	06/21/2012	ND	1.98	99.2	2.00	9.57		
Ethylbenzene*	<0.050	0.050	06/21/2012	ND	2.08	104	2.00	13.6		
Total Xylenes*	<0.150 0.150		06/21/2012	ND	6.46	108	6.00	15.1		
Sui rogate: 4-Bromofluorohenzene (PIE	108 :	% 89 4-12	6	<u></u>			·			
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP			u 1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/19/2012	ND	432	108	400	3.77		
TPH 8015M	mg/	'kg	Analyze	d By: MS	<u>.</u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/19/2012	ND	180	90.1	200	2.33		
DRO >C10-C28	<b>14.7</b> 10.0		06/19/2012	ND	185	92.7	200	2.72		
Surrogate: 1-Chlorooctane	Surrogate: I-Chlorooctane 96.9 %		0							
Surrogate 1-Chlorooctadecane	120 \$	63 6-15	4							

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#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager

RDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Page\_\_\_\_\_\_of\_\_\_\_\_

Company Name: Safety & Environmental Solutions, Inc.					海影		B	<b>E</b> L	TC	) 梁							ANA	ĹYS	I <u>Ş</u> I	RE	QŲĘ	ST						
Project Manage	<sup>inager:</sup> Bob Allen						P.O. #:						Γ								Τ			Τ	1			
Address:	703 East Clinton							Company: Same											1									
City:	Hobbs State: NM Zip: 88240							Attr	1:																			
Phone #:	575-397-0510 Fax#: 57	5-39	3-4	138	8			Add	ress	s:																		
Project #:	Project Own	er:						City	:										Í						{		1	
Project Name:	SELUSK FED 33.2			·				Stal	ө:		Zi	p:															1	
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Sampler Name:	Book (1/2)						į	Fax	_																			
FOR LAB USE ONLY	•				MA	TRIX		ŀ	RES	SERV	′.	SAMP	PLIN	Ģ .							}							
Lab I.D. H20137]	Sample I.D.	C)(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	DTHER :	d )	) <i><del>с</del>эл</i> Дате	Э Ш	TIME	8015		BIEY	11					-					
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476. # 746