#### Bratcher, Mike, EMNRD

From:

Bratcher, Mike, EMNRD

Sent:

Wednesday, January 30, 2013 1:02 PM

To:

Christopher\_Jones@oxy.com; Sergio Contreras; 'Susana Rodriguez'

Subject:

RE: Eeyore 34 State #1 Delineation Report/Wrkplan

Reference: Occidental Permian \* Eeyore 34 St 1 \* 30-015-39383 \* A-34-17s-28e \* Eddy County, New Mexico

NMOCD Tracking Number: 2RP-1405 \* Date of release: 11/11/12

Greetings,

OCD is in receipt of a proposal for remediation of the above referenced release. The proposal was submitted by SESI on behalf of Occidental Permian. The proposal is approved.

Please check the aerial map, in the proposal, with the spill outline. It is OCD's understanding that the release was confined to the well pad. The aerial map shows the release in the pasture to the south. Please advise.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, please contact me.

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

From: Susana Rodriguez [mailto:office2@sesi-nm.com]

Sent: Wednesday, January 30, 2013 11:38 AM

**To:** Christopher Jones@oxy.com

Cc: Sergio Contreras; Bratcher, Mike, EMNRD

Subject: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

Mr. Jones:

Mike Bratcher said we can go ahead with the workplan he spoke to Sergio earlier and approved the workplan, I am waiting on confirmation e-mail from Mike as soon I get that I will forward it to you for your records.

Thank you,

Susana Rodriguez Administrative Assistant Safety & Environmental Solutions, Inc.

Office: 575.397.0510

Fax: 575.393.4388 Cell: 575.390.7065

E-mail: office2@sesi-nm.com

**From:** Christopher Jones@oxy.com [mailto:Christopher Jones@oxy.com]

Sent: Friday, January 25, 2013 9:33 AM

To: office2@sesi-nm.com

Subject: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

Everything looks good. I propose that the cleanup plan be, lets excavate from samples point 1-3 a 1.5' excavation; SP 4 2.5'; and SP 5 5', and then backfill the pad with caliche.

My next question is are yall going to pitch this with OCD & BLM or am I. I am not familiar with the way that yall handle spills for people. Either way I am good with, just need to know.

Chris Jones HES Specialist Permian Primary Production Carlsbad, NM Cell 575-499-3337 Off 575-628-4121

"We do not inherit the earth from our ancestors; we borrow it from our children." Chief Seattle

From: Susana Rodriguez [mailto:office2@sesi-nm.com]

**Sent:** Friday, January 25, 2013 9:01 AM

To: Jones, Christopher K

Cc: Sergio Contreras; Jerry Sosa

Subject: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

Mr. Jones:

Attached please find the delineation report/workplan for the Eeyore 34 State 1. Please let us know if you have any corrections or changes that need to be made before submitting this report to the OCD.

Thank you,

Susana Rodriguez Administrative Assistant Safety & Environmental Solutions, Inc.

Office: 575.397.0510 Fax: 575.393.4388 Cell: 575.390.7065

E-mail: office2@sesi-nm.com

#### Bratcher, Mike, EMNRD

From:

Microsoft Outlook

To:

Christopher\_Jones@oxy.com; Sergio Contreras; Susana Rodriguez

Sent:

Wednesday, January 30, 2013 1:02 PM

Subject:

Relayed: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

### Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

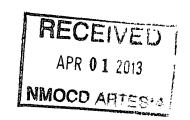
Christopher Jones@oxy.com (Christopher Jones@oxy.com)

Sergio Contreras (scontreras@sesi-nm.com)

Susana Rodriguez (office2@sesi-nm.com)

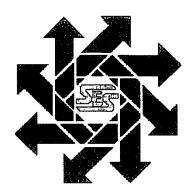
Subject: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

# OXY Permian Eeyore 34 State #1 Closure Report



Section 24, T17S, R28E Eddy County, New Mexico

March 8, 2013



Prepared for:

Oxy Permian P.O. Box 1988 Carlsbad, New Mexico 88221

By:

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

#### **TABLE OF CONTENTS**

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#### I. Company Contacts

Representative	Company	Telephone	E-mail
Chris Jones	Oxy Permian	575-625-4121	Christopher_Jones@oxy.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

#### II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Oxy Permian Company to perform site assessment of a release area at the Eeyore 34 State 001 located in Section 24 of Township 17 South, Range 28 East, Eddy County, New Mexico.

According to the C-141, the cause of the release was due to the valve on a rental frac tank was not closed properly. Approximately 103 barrels (bbls) of produced water was released.

#### III. Surface and Ground Water

The nearest groundwater of record is approximately 1.3 miles north of the site. The United States Geological Survey record is in Section 22 Range 28 East and Township 17 South. The reported depth was 79 feet below ground surface (bgs).

#### IV. Work Performed

On November 14, 2012, SESI was onsite at the OXY Eeyore 34 State #1 for a site assessment. The release area was mapped utilizing a Trimble Juno 3D. A total of 5 auger holes were installed to obtain vertical extent of contamination. Refusal on all auger holes was found at one foot depths. There were four (4) Frac Tanks on site where the release occurred and staining was observed underneath the Frac Tanks. Frac tanks will have to be moved for further delineation.

On January 16, 2013, SESI was onsite at the OXY Eeyore 34 State #1 with Alfredo's Trucking Back hoe with an operator to install test trenches to determine vertical extent of contamination. JSA and safety meeting were conducted. Five test trenches were installed and soil samples were obtained at one foot intervals.. The samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl<sup>-</sup>) (Method SM4500Cl-B), Benzene, Toluene, Ethyl benzene, Total Xylenes, (BTEX)(EPA Method 8021B), and Total Petroleum Hydrocarbon (TPH) (Method 418.1).

The results of the analysis are presented in the table below:

Sample ID	CI (mg/kg)	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)
TT-1: 1' bgs	128	-	-	-	-	
TT-1: 2' bgs	32.0	<100	<0.050	< 0.050	< 0.050	<0.150
TT-2: 1' bgs	2,240	-			-	-
TT-2: 2' bgs	144	<100	<0.050	< 0.050	<0.050	<0.150
TT-3: 1' bgs	4,880	-	-	-	-	-
TT-3: 2' bgs	64.0	<100	<0.050	< 0.050	< 0.050	<0.150
TT-4: 1' bgs	1,070	-		-	-	
TT-4: 2' bgs	816	-			-	-

Sample ID	CI (mg/kg)	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)
TT-4: 3' bgs	48.0	<100	<0.050	<0.050	< 0.050	<0.150
TT-5: 1' bgs	416	-	_	-	-	-
TT-5: 2' bgs	16,000	-	-	-	-	-
TT-5: 3' bgs	13,000	-	-	-	-	-
TT-5: 4' bgs	4,400	-	-	-	-	-
TT-5: 6' bgs	224	<100	< 0.050	<0.050	<0.050	<0.150

The release area and test trench sample points were mapped using the Trimble Juno 3D and site photos were taken.

The results of the analysis indicate that the vertical extent of contamination was found in all test trenches at a depth of two (2) ft. bgs in TT 1-3, at three (3) ft. bgs in TT-4 and at six (6) ft. bgs in TT-5.

The most highly contaminated and/or saturated soils were excavated, which in this case, TT 1-3 area be excavated to a depth of 1.5 ft. bgs; TT 4 area to a depth of 2.5 ft. bgs; and TT-5 area to a depth of 5 ft.

Confirmation sampling was conducted on February 15, 2013. The samples were properly packaged, preserved and transported to Cardinal Laboratories and analyzed for Cl<sup>-</sup>, BTEX, and TPH. The results of the analysis are presented in the table below:

Sample ID	Čľ (mĝ/kg)	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)
SP-1: 5' bgs	160	<100	<0.050	<0.050	<0.050	<0.150
SP-2: 1.5' bgs	64	<100	<0.050	<0.050	<0.050	<0.150
SP-3: 1.5' bgs	176	<100	<0.050	<0.050	< 0.050	<0.150
SP-4: 2.5' bgs	160	<100	<0.050	<0.050	< 0.050	<0.150
N.Wall, 1.5' bgs	96	<100	<0.050	< 0.050	< 0.050	<0.150
E. Wall, 1.5' bgs	320	<100	<0.050	<0.050	< 0.050	<0.150
S. Wall 1.5' bgs	32	<100	<0.050	<0.050	< 0.050	<0.150
W. Wall, 1.5' bgs	32	<100	< 0.050	<0.050	< 0.050	<0.150

A total of 252 yards of excavated soils were transported to Lea Land, a New Mexico Oil Conservation Division (NMOCD) approved facility for disposal. The excavation was backfilled with 268 yards of clean caliche and compacted to the original pad elevation.

#### V. Conclusion

This is an active tank battery and the operator is fully aware that at such time the battery and lease is abandoned, additional cleanup may be required.

Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements.

As a result, we respectfully submit this closure report for your consideration and approval.

#### VI. Figures & Appendices

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

## Figure 1 Vicinity Map



Name: RED LAKE Date: 3/11/2013

Scale: 1 inch equals 4000 feet

Location: 032.7967716° N 104.1571623° W WGS84

## Figure 2 Site Plan





## Appendix A Analytical Results



January 24, 2013

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: EEYORE 34 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 01/18/13 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 www.tceq.texas.gov/field/ga/lab accred 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.

Celey & Keene

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



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

Fax To:

(575) 393-4388

Analyzed By: AP

Received:

01/18/2013

Sampling Date:

01/16/2013

Reported:

Chloride, SM4500CI-B

01/24/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Name:

OXY-12-018

mg/kg

Sample Received By:

Jodi Henson

Project Number: Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: TT - 1 1' BGS (H300137-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/22/2013	ND	448	112	400	3.64	
Sample ID: TT - 1 2' BGS (H30	0137-02	2)							
BTEX 8021B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 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	32.0	16.0	01/22/2013	ND	448	112	400	3.64	
TPH 418.1	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	01/24/2013	ND	2100	84.0	2500	3.28	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keene



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

Fax To:

(575) 393-4388

Received:

01/18/2013

Sampling Date:

01/16/2013

Reported:

01/24/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: TT - 2 1' BGS (H300137-03)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	01/22/2013	ND	448 .	112	400	3.64	
Sample ID: TT - 2 2' BGS (H30		•							
BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	< 0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	<b>'</b> 6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/22/2013	ND	448	112	400	3.64	
TPH 418.1	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	01/24/2013	ND	2100	84.0	2500	3.28	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keene



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

Fax To:

(575) 393-4388

Received:

01/18/2013

Sampling Date:

01/16/2013

Reported:

01/24/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: TT - 3 1' BGS (H300137-05)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	. 4880	16.0	01/22/2013	ND	448	112	400	3.64	
Sample ID: TT - 3 2' BGS (H30		•							
BTEX 8021B	mg,	/kg	Analyze	d By: AP					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	6	- <u></u>		<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	01/22/2013	ND	448	112	400	3.64	
TPH 418.1	mg,	/kg	Analyze	d By: CK					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	01/24/2013	ND	2100	84.0	2500	3.28	

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\*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

01/18/2013

Sampling Date:

01/16/2013

Reported:

01/24/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: TT - 4 1' BGS (H300137-07)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AP					·· -
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	01/22/2013	ND	448	112	400	3.64	
Sample ID: TT - 4 2' BGS	5 (H300137-08	3)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/22/2013	ND	448	112	400	3.64	

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/18/2013

Sampling Date:

01/16/2013

Reported:

01/24/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: TT - 4 3' BGS (H300137-09)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17. <del>4</del>	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND			•		
Surrogate: 4-Bromofluorobenzene (PIL	102	% 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	48.0	16.0	01/22/2013	ND	448	112	400	3.64	
TPH 418.1	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	01/24/2013	ND	2100	84.0	2500	3.28	
Sample ID: TT - 5 1' BGS (H30	0137-10	))							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/22/2013	ND	448	112	400	3.64	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Kune



Safety & Environmental Solutions

Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

01/18/2013

Sampling Date:

01/16/2013

Reported:

01/24/2013

Sampling Type:

Project Name:

Sampling Condition:

Cool & Intact

EEYORE 34 STATE #1

Sample Received By:

Jodi Henson

Project Number: Project Location: OXY-12-018

LOCO HILLS, EDDY COUNTY

Sample ID: TT - 5 2' BGS (H300137-11)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP				<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	01/22/2013	ND	448	112	400	3.64	

#### Sample ID: TT - 5 3' BGS (H300137-12)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	01/22/2013	ND	448	112	400	3.64	

#### Sample ID: TT - 5 4' BGS (H300137-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	01/22/2013	ND	448	112	400	3.64	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

01/18/2013

Sampling Date:

01/16/2013

Reported:

01/24/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location: OXY-12-018

LOCO HILLS, EDDY COUNTY

Sample ID: TT - 5 6' BGS (H300137-14)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS .	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/22/2013	ND	448	112	400	3.64	
TPH 418.1	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	01/24/2013	ND	2100	84.0	2500	3.28	

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



#### **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

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Celeg D. Keine

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES		· · ·
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476		Page / ot 2
Company Hame: Safety & Environmental Solutions, Inc.	BILLTO	
Project Manager: Bob Allen	P.O.#:	
Address: 703 East Clinton	Company: Same	
City: Hobbs State; NW Zip: 88240	Attri:	
Phone #: 575-397-0510 Fax #: 575-393-4388	Address:	
Project #: CXY-12-C18 Project Owner: CXY	City:	
Project Name: EEY COLE 34 STUTE #1	State: Zip:	
Project Location: Loca (fulls , (FDI)4 Co	Phone #:	
Sampler Name: 5052 King	Fax #:	13   3   1   1   1   1   1
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
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3 77-2 1' 1345 6 1 X	X 01/16 /000	
31 77-2 2' 1395 G, ( X	X 01/16 1020	
5 T-3 1'1345 G 1 X	X 0116 1040	
7 17-41',345 G1 X	X 01/16 1/25	
5 TT 4 2 1845 5 1 1 X	X 0116 1150	
17-4 3' BGS GILX	X 01/16 /360	
16 71-5 1: 135 G1 X	X 01/16 /320	
PLEAR HOTE: Lattiny and Danigues Constant Basely and unless saletime regions for sof stehn exhalt whether based in control Analysis. All claims including those for negligence and any other cause which pairs a select my desired without and exhalt in claims service, to no event shall Confinial be liable for incidental or consequently damages, including orthout finishing business interruption	nai received by Caelloui within 36 days after completi th t	it not exhibited to an analysis and are a same with the or same and are a small and the configuration of the confi
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t Cardinal cannol accept verbal changes. Please lex written changes to 575-393-1476.

## ARDINAL LABORATORIES

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 /5051 393-2326 Fay (505) 393-247

Page 2 of 2

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City:	Hobbs	State: NIVI	Zip:	88	240	******		. AI	in:														į		
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February 26, 2013

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: EEYORE 34 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/18/13 14:30.

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/ga/lab">www.tceq.texas.gov/field/ga/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.

Celeg & Keene

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



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

Fax To:

(575) 393-4388

Received:

02/18/2013

Sampling Date:

02/15/2013

Reported:

02/26/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Name: Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: SP-1 5' BGS (H300444-01)

B 22 - 12 - 2							
Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
0.050	02/21/2013	ND	2.31	116	2.00	6.54	
0.050	02/21/2013	ND	2.41	121	2.00	9.30	
0.050	02/21/2013	ND	2.33	116	2.00	8.52	
0.150	02/21/2013	ND	7.27	121	6.00	9.48	
0.300	02/21/2013	ND					
89.4-12	6						
kg	Analyze	d By: DW	<u>-</u>				
Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	02/21/2013	ND	432	108	400	0.00	
(g	Analyze	d By: AM					
Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
100	02/25/2013	ND	4230	84.5	5000	0.236	
	0.050 0.050 0.150 0.300 89.4-12 89 Reporting Limit 16.0	0.050 02/21/2013 0.050 02/21/2013 0.150 02/21/2013 0.300 02/21/2013 6 89.4-126 Reporting Limit Analyzed 16.0 02/21/2013 Reporting Limit Analyzed Reporting Limit Analyzed Analyze	0.050 02/21/2013 ND 0.050 02/21/2013 ND 0.150 02/21/2013 ND 0.300 02/21/2013 ND  89.4-126  Reporting Limit Analyzed By: DW  Reporting Limit Analyzed Method Blank 16.0 02/21/2013 ND  Reporting Limit Analyzed Method Blank Reporting Limit Analyzed Method Blank	0.050 02/21/2013 ND 2.41 0.050 02/21/2013 ND 2.33 0.150 02/21/2013 ND 7.27 0.300 02/21/2013 ND  89.4-126  Reporting Limit Analyzed By: DW  Reporting Limit Analyzed Method Blank BS 16.0 02/21/2013 ND 432  Reporting Limit Analyzed By: AM  Reporting Limit Analyzed Method Blank BS	0.050 02/21/2013 ND 2.41 121 0.050 02/21/2013 ND 2.33 116 0.150 02/21/2013 ND 7.27 121 0.300 02/21/2013 ND  89.4-126  89 Analyzed By: DW  Reporting Limit Analyzed Method Blank BS % Recovery 16.0 02/21/2013 ND 432 108  89 Analyzed By: AM  Reporting Limit Analyzed Method Blank BS % Recovery	0.050 02/21/2013 ND 2.41 121 2.00 0.050 02/21/2013 ND 2.33 116 2.00 0.150 02/21/2013 ND 7.27 121 6.00 0.300 02/21/2013 ND  8 89.4-126  Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 16.0 02/21/2013 ND 432 108 400  Reporting Limit Analyzed By: AM  Reporting Limit Analyzed Method Blank BS % Recovery True Value QC  16.0 02/21/2013 ND 432 108 400	0.050 02/21/2013 ND 2.41 121 2.00 9.30 0.050 02/21/2013 ND 2.33 116 2.00 8.52 0.150 02/21/2013 ND 7.27 121 6.00 9.48 0.300 02/21/2013 ND  89.4-126  Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16.0 02/21/2013 ND 432 108 400 0.00  Reporting Limit Analyzed By: AM  Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  16.0 02/21/2013 ND 432 108 400 0.00  Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keene



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

Fax To:

(575) 393-4388

Received:

02/18/2013

Sampling Date:

02/15/2013

Reported:

02/26/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: SP-2 1.5' BGS (H300444-02)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2013	ND	2.31	116	2.00	6.54	
Toluene*	<0.050	0.050	02/21/2013	ND	2.41	121	2.00	9.30	
Ethylbenzene*	<0.050	0.050	02/21/2013	ND	2.33	116	2.00	8.52	
Total Xylenes*	< 0.150	0.150	02/21/2013	ND	7.27	121	6.00	9.48	
Total BTEX	<0.300	0.300	02/21/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/21/2013	ND	432	108	400	0.00	
TPH 418.1	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236	

Cardinal Laboratories \*=Accredited Analyte

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

Fax To:

(575) 393-4388

Received:

02/18/2013

Sampling Date:

02/15/2013

Reported:

02/26/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

Sample ID: SP-3 1.5' BGS (H300444-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2013	ND	2.07	104	2.00	5.77	
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38	
Total BTEX	<0.300	0.300	02/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/21/2013	ND	432	108	400	0.00	
TPH 418.1	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	. BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236	

Cardinal Laboratories

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aligh Kene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



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

Fax To:

(575) 393-4388

Received:

02/18/2013

Sampling Date:

02/15/2013

Reported:

02/26/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Name:

OXY-12-018

Sample Received By:

Jodi Henson

Project Number: Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: SP-4 2.5' BGS (H300444-04)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2013	ND	2.07	104	2.00	5.77	
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46	
-Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38	
Total BTEX	<0.300	0.300	02/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/21/2013	ND	432	108	400	0.00	
TPH 418.1	mg/	/kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236	

#### Cardinal Laboratories

\*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Clardinal within thirty (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 clardinal, 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 Laboratories.

Celeg D. Keine



Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

02/18/2013

Sampling Date:

02/15/2013

Reported:

02/26/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: SOUTH WALL 1.5' BGS (H300444-05)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2013	ND	2.07	104	2.00	5.77	
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38	
Total BTEX	<0.300	0.300	02/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6	·					
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	. Qualifier
Chloride	32.0	16.0	02/21/2013	ND	432	108	400	0.00	
TPH 418.1	mg/	'kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236	

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Celeg D. Keine



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

02/18/2013

Sampling Date:

02/15/2013

Reported:

02/26/2013

Sampling Type:

Soil

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: WEST WALL 1.5' BGS (H300444-06)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2013	ND	2.07	. 104	2.00	5.77	
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46	
Ethylbenzene*	< 0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81	
Total Xylenes*	< 0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38	
Total BTEX	<0.300	0.300	02/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: DW					
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/21/2013	ND	432	108	400	0.00	
TPH 418.1	mg/	/kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236	

Cardinal Laboratories

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Celeg D. Keene



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

Fax To:

(575) 393-4388

Received:

02/18/2013

Sampling Date:

02/15/2013

Reported:

02/26/2013

Sampling Type:

Project Name:

EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

#### Sample ID: NORTH WALL 1.5' BGS (H300444-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2013	ND	2.07	104	2.00	5.77	
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38	
Total BTEX	<0.300	0.300	02/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/21/2013	ND	432	108	400	0.00	
TPH 418.1	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236	

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Keine



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

Fax To:

(575) 393-4388

02/18/2013

Received: Reported: 02/18/2013

Sampling Date: Sampling Type:

Soil

02/26/2013 EEYORE 34 STATE #1

Sampling Condition:

Cool & Intact

Project Name: Project Number:

OXY-12-018

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, EDDY COUNTY

Sample ID: EAST WALL 1.5' BGS (H300444-08)

BTEX 8021B	mg,	/kg	Analyze	d By: AP			and the second		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2013	ND	2.07	104	2.00	5.77	
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38	
Total BTEX	<0.300	0.300	02/22/2013	ND				•	
Surrogate: 4-Bromofluorobenzene (PIE	109	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	.02/21/2013	ND	432	108	400	0.00	
TPH 418.1	mg,	/kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kune



ND

#### **Notes and Definitions**

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

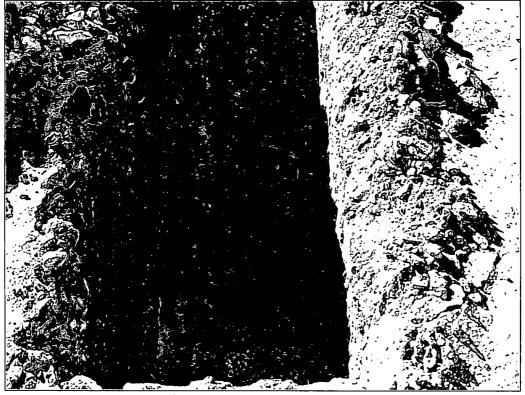
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be 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 the services hereunder by Cardinal, regardless of whether such claim 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 Laboratories.

Celeg D. Keene

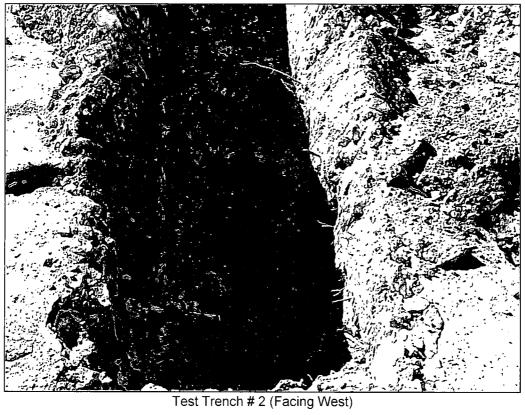
#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

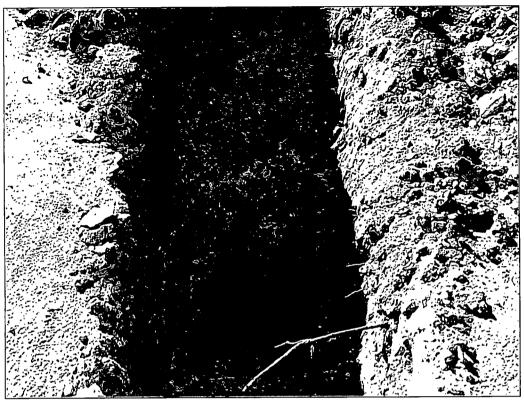
	10 Feasi Mananu, nobbs, NW 5024					15	1. (	
	(505) 393-2326 Fax (505) 393-2	Two views suited and a set a member of the	29417554 S2750799	Pageof				
Company Name:	Safety & Environmental	BILL TO		AŅĀLYŠIŠ RĒQUEŠT				
Project Manager:	DUIT BIEIL							
Address:	703 East Clinton		Company: Same					
City:	Hohbs State: NM Zip: 88240		Attn:					
Phone #: 575-397-0510 Fax #: 575-393-4388			Address:					
Project #: OXY-12-018 Project Owner: OXY			City:		i.			
Project Name: CEYORE 34 STATE FI			State: Zip:	00				
Project Location: Loco Hills (EDDY Co)			Phone #;					
Sampler Name: So So. ICVI			Fax #:		$Q \mid \cdot \mid \cdot \mid$			
FÉR LAB-USE ONLY		MATRIX.	PRESERV. SAMPLI		<del></del>			
Lab I.D.  H300449	Sample I.D.  SP-1-5' BGS  SP-2-15'BGS  SP-3-15'BGS  SP-4-25'BGS  SCOTH WALL (S'BGS	GIX	X 02/15 X 02/15 X 02/15 X 02/15 X 02/15	TIME O940 XXX (1205) (110 O155) (1005)	10/1/10/ V-1/10/			
7	NORTH WALL 15865	G1 X	X 02115	1050 1				
- 3	Edist With 1.57B45	911 8	X 02/15	(130)	$\sim$			
andress, 40 dains including struke, in government of a struke shall continue to the struke shall contin	Time:  Date:  Tima:  (Circle One)  - Bus - Other:	deemed yehed interes made in writing is a writing it and find sign of sign of the relationship of the rela	illion CHECKED BY:	or completion of the employable - offent, as substantes,	eb da and all P DOAL D		£ per entirum from the	
† Cardinal	cannót accept verbal changes. Pleas	e fax written changes ti	6 575-393-2476. HZ40				·	Page 11

## Appendix B Site Photographs



Test Trench # 1 (Facing West)

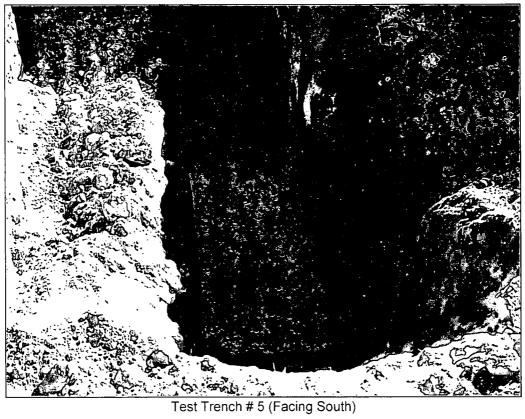


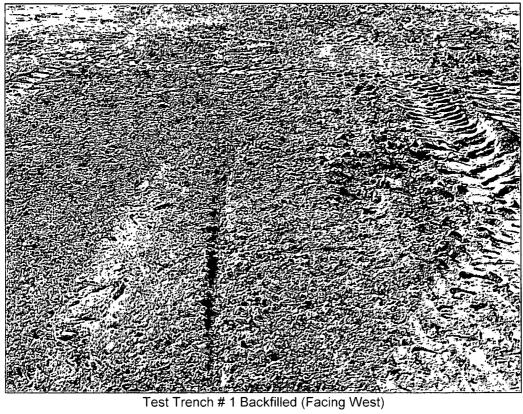


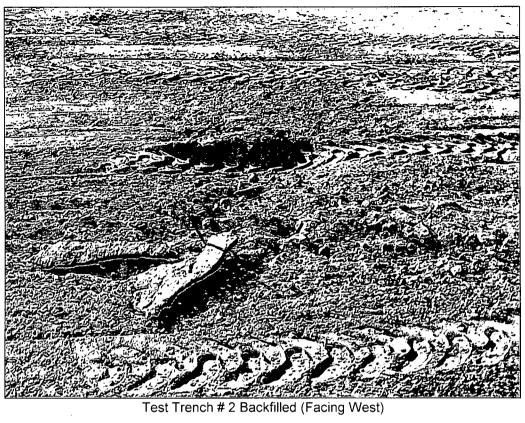
Test Trench # 3 (Facing West)

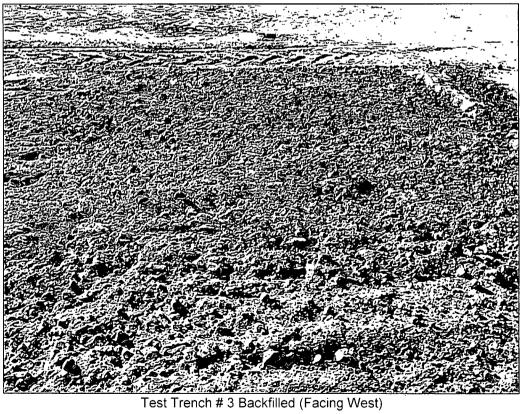


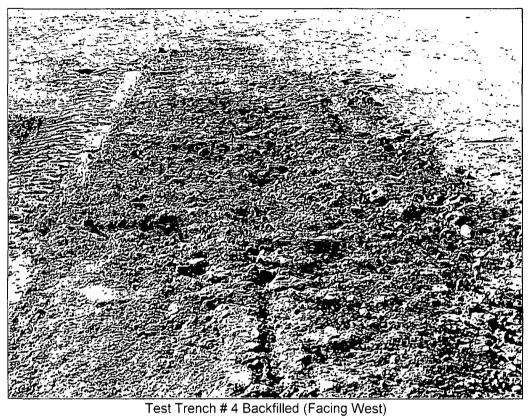
Test Trench # 4 (Facing West)

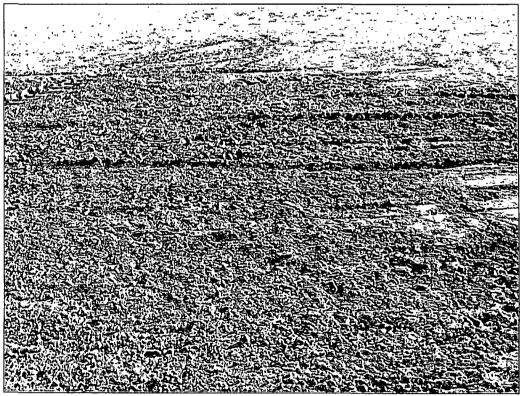




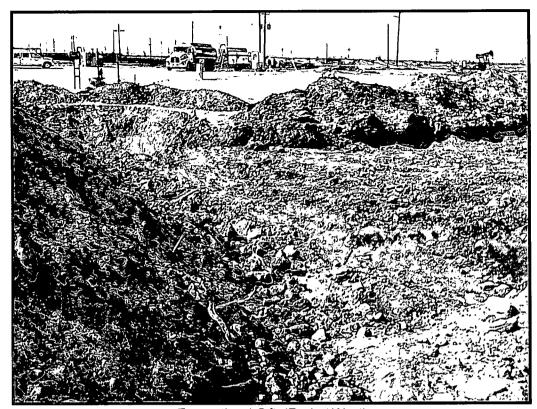




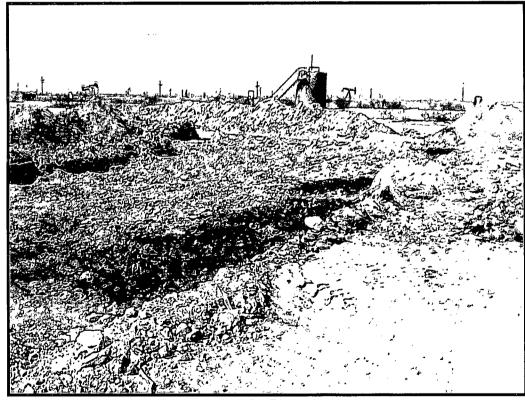




Test Trench # 5 Backfilled (Facing South)



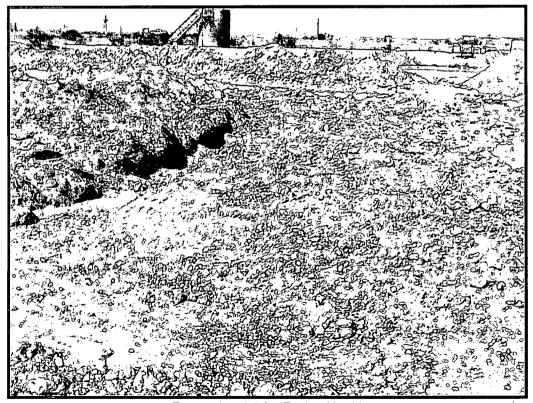
Excavation 1.5 ft. (Facing West)



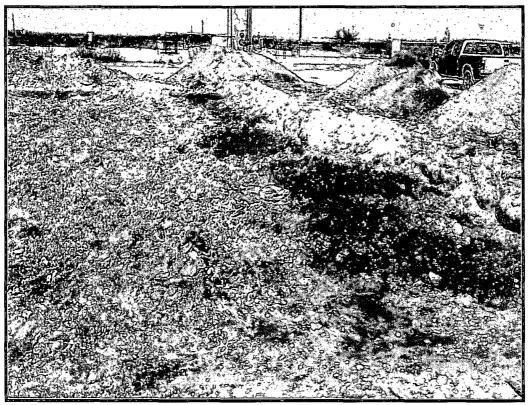
Excavation 1.5 ft. (Facing Northwest)



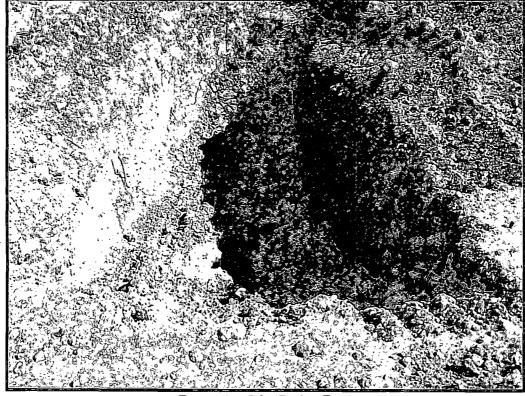
Excavation 5ft. (Facing West)



Excavation 1.5 ft. (Facing North)



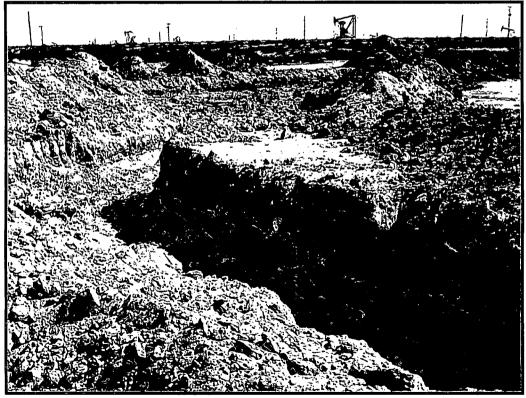
Excavation 1.5 ft. (Facing North)



Excavation 5 ft. (Facing East)



Excavation 2.5 ft. (Facing East)



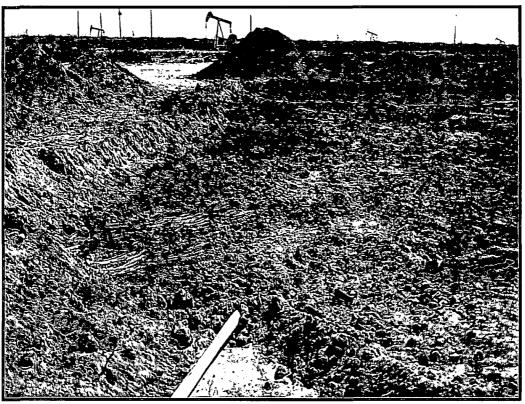
Excavation 2.5 ft. (Facing Southeast)



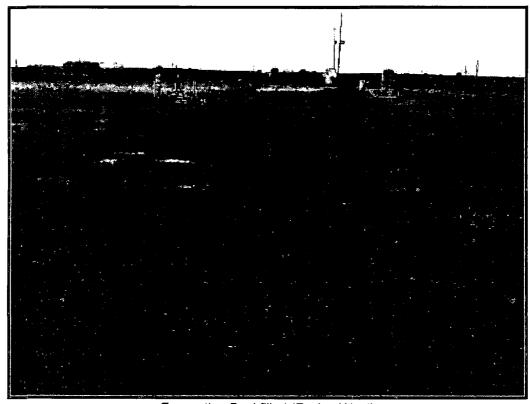
Excavation 1.5 ft. (Facing South).



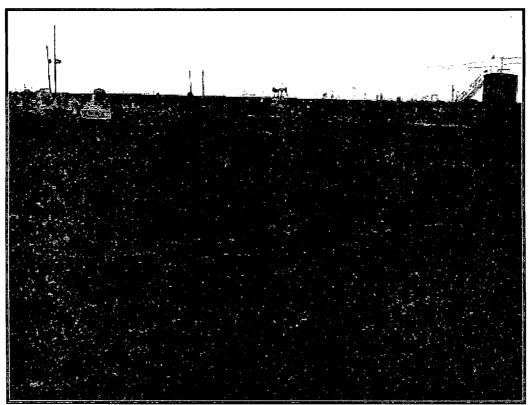
Excavation 1.5 ft. (Facing South)



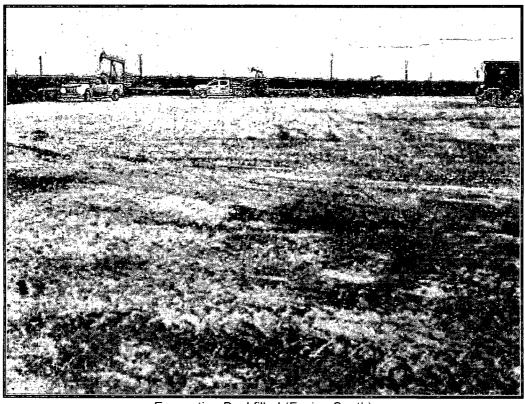
Excavation 1.5 ft. (Facing South)



Excavation Backfilled (Facing West)



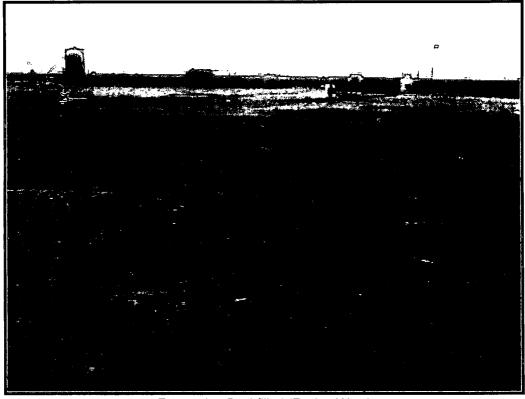
Excavation Backfilled (Facing West)



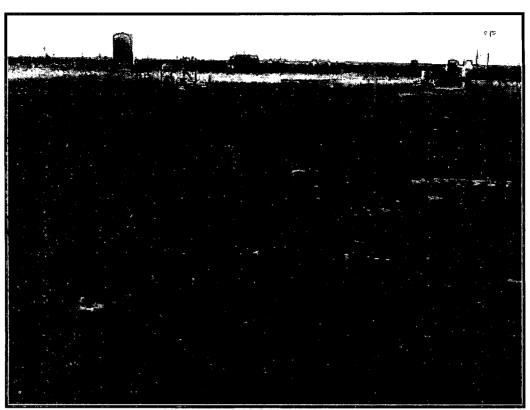
Excavation Backfilled (Facing South)



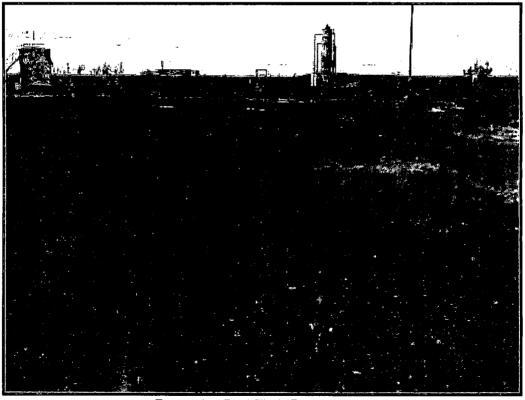
Excavation Backfilled (Facing South)



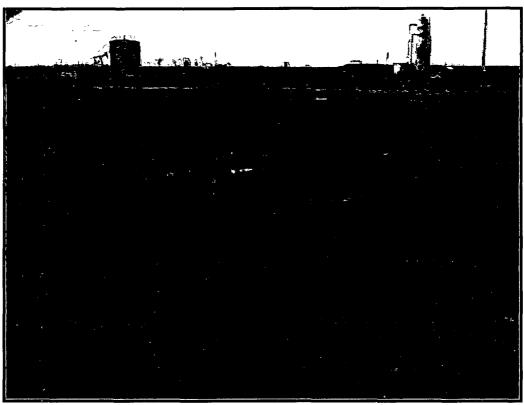
Excavation Backfilled (Facing West)



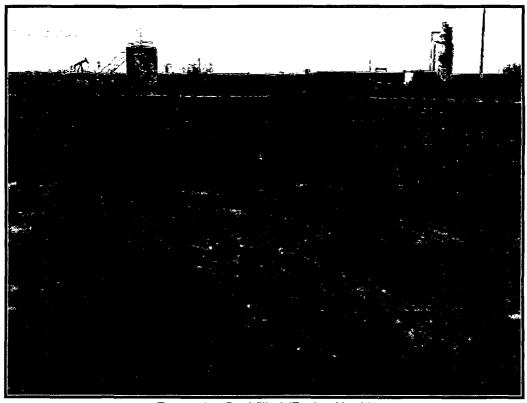
Excavation Backfilled (Facing West)



Excavation Backfilled (Facing North)



Excavation Backfilled (Facing North)



Excavation Backfilled (Facing North)

## Appendix C C-141

District I 1625 N. French Dr., Hobbs, NM 88240

Form C-141 Revised August 8, 2011

District II 811 S. First St., Artesia, NM 88210

District III

dil Conservation Division

APR 01 20 Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

District III
1000 Rio Brazos Road, Aztec, MIMOCD ARTES!AI220 South St. Francis Dr. District IV 1220 S. St. Francis Dr., Santa Fe. NM 87505

Santa Fe, NM 87505													
			Rele	ease Notific	ation	and Co	rrective A	ction	<u> </u>				
						OPERA?	ror .		☐ Initial Report ☐ Final Report				
Name of Co	mpany: C	xy USA Inc				Contact Chr		2.00	Za intent tepor				
Address 150	)2 W. Cor	nmerce Driv	ė			Telephone No. 575-449-3337							
						Facility Type: Producing Well							
Surface Owner Mineral Owner								API No	API No. 3001539383				
				LOCA	TIO	ON OF RELEASE							
Unit Letter	Section	Township	Range	Feet from the		South Line	The state of the s						
A	34	17 S	28 E	738		N	488	ie					
	1 34	173						E	Eddy				
LatitudeLongitude													
NATURE OF RELEASE													
Type of Rele Source of Re			•			Volume of Release: 103 BBLS Volume Recovered:  Date and Hour of Occurrence: Date and Hour of Dis							
Source of Ke	lease: Frac	rank				11/11/12	our of Occurrenc 9:00 pm	e: Date and 11/11/12	Date and Hour of Discovery: 11/11/12 9:30 pm				
Was Immedia	ate Notice	Given?				If YES, To		11/11/12	7.50 pii				
•			Yes 🗌	] No 🔲 Not R	equired	d Mike Bratcher- NMOCD							
Dr. Whom 2	Their Inne					Jim Amos- BLM							
By Whom? Chris Jones Was a Watercourse Reached?						Date and Hour: 11/13/12 1:00 pm  If YES, Volume Impacting the Watercourse.							
☐ Yes ⊠ No						and the same of th							
If a Watereou	ırse was In	pacted. Deser	ibe Fully.	<b>š</b> .	<del></del> .								
						•				٠			
		em and Reme											
								on site and able to					
it was isolate	a to an area	a on the well p	oad. SESI	will do some init	al samp	ling and we v	vill come up with	a plan for clean up	based off o	f that fo	or proposal.		
7	1.00	1.01		· · · · · · · · · · · · · · · · · · ·									
Describe Area Affected and Cleanup Action Taken.*													
Lhereby certi	fy that the	information o	iven abov	e is true and come	lete to t	he heet of my	knawledge and u	nderstand that pur	mant to NIM	OCD	ules and		
regulations al	li operators	are required t	lo report a	nd/or file certain r	elease n	otifications a	nd perform correc	tive actions for rel	eases which	may e	ndanger		
public health	or the envi	ronment. The	acceptant	cc of a Cal4t bepo	ort by th	e NMOCD m	arked as "Final R	eport" does not rel	eve the ope	rator of	fliability		
should their (	pérations l	nave failed to	adequately	/ investigate and r	emediat	e contaminati	on that pose a thr	eat to ground wate	r, surface wa	iter, hu	man health		
federal, state,	or local la	and or reg	ulations.	mance of a C-141	report u	ocs not tenev	e me operator or	responsibility for c	omphance v	viin an	y otner		
or the environment. In addition NMOCD acceptance of a C-141 report d federal, state, or local lasts and or regulations.						OIL CONSERVATION DIVISION							
Signature:													
						1							
Printed Name: Chris Jones						Approved by Environmental Specialist:							
Title: HES Specialist						Approval Date: Expiration Date:							
2100, 1120 0	, Jeiu/13t				-	z ibbio sat isa		Laphadon	Expiration Date.				
E-mail Address: Christopher Jones@oxy.com						Conditions of Approval: Attacl			Attached				
Date: Phone: 575-449-3337									I KARAMITAN (1994)				

<sup>\*</sup> Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action													
						OPERA?	<b>TOR</b>		☐ Initi	al Report	$\boxtimes$	Final Report	
Name of Company:Oxy USA Inc (157984)						Contact: Chris Jones							
Address:1502 W. Commerce Dr.						Telephone No.: 575-449-3337							
Facility Name: Eeyore 34 State #1						Facility Type: Producing Well							
Surface Owner Mineral Owne						er API No. 30-015-39383							
Unit Letter   Section:   Township:   Range   Feet from the   North/South Line   Feet from the   East/West Line   County:													
Oun Dener	Beetion.	rownsinp.	Kange	T cct from the	140113	Joddii Ellic	Tect Holls the	Last	Su west affice County.				
A 34 17S 28E 738 N					N	488 E				Eddy			
LatitudeLongitude													
NATURE OF RELEASE													
Type of Release Produced Water Volume of Release 103 BBLSs Volume Recovered 100Bbls													
Source of Re						Date and Hour of Occurrence Date and Hour of Dis					overy		
			······································			11/11/129		1	11/11/12	9:30 P.M.			
Was Immedia	ite Notice C		va. C	No Not Re	.autrad	If YES, To Whom?							
		<b>M</b>	res _	1 140 🗀 1401 Ke	quirea	d Mike Bratcher NMOCD Jim Amos BLM							
By Whom?	· · · · · · · · · · · · · · · · · · ·				,,,	Date and Hour 11/13/12 1:00 P.M.							
Was a Water	ourse Reac				************	If YES, Volume Impacting the Watercourse.							
		🗖	Yes 🏻	No		1							
If a Watercou	rse was Im	pacted, Descri	be Fully.	i	······							······································	
		1			······································	-							
		em and Remed			vater ni	nto the well no	d. A vacuum truc	k was o	n site and i	uilized to re	COVEE D	nost of the	
				ll pad. SESI was r				K Was O	i site and t	Millacu to 1ce	LUVELII	nost of the	
Describe Are	a Affected a	and Cleanup A	ction Tak	en.*				***************************************	***************************************			······································	
CECI delineat	ad the rite o	and ramadiate	d the come	in accordance vi	ith tha	wark alan and	NMOCD guidlei:	- AC					
SESI dellica	ed the she t	and remediate	n tuc same	s in accordance w	im me	work plan and	NWOCD galater	nes.					
					***************************************							**************************************	
							knowledge and u						
							nd perform correct orked as "Final Re						
should their o	perations h	ave failed to a	dequately	investigate and re	media	e contaminati	on that pose a thre	eat to gr	ound water	r, surface wa	ter, hui	man health	
or the enviror	ment. In a	dditiop <del>, NMO</del>	CD accep	tance of a C-141 i	report o	loes not reliev	e the operator of r	esponsi	bility for c	ompliance w	ith any	other	
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.													
						OIL CONSERVATION DIVISION							
Signature:					- {								
Printed Name: Christians C3 Summer >					اح	Approved by Environmental Specialist:							
-Title: HES Specialist						Approval Date: Expiration			Expiration	Date:			
E-mail Address: Christopher_jones@oxy.com						Conditions of Approval:							
										Attached			
Date: Attach Addit	06/30/15	te If Massa		e: 575-449-3337				<u> </u>		1			
rauacii Audil	હામાં અલ્લાન	AS IT INCCUSS:	at V										