

CONOCOPHILLIPS

P.O. Box 2197 Houston, TX 77252-2197 Phone 281.293.1000

SEMU DTB Battery

1RP-3233

Termination Request

API No. 3002506115

Release Date: November 21st, 2013

Unit Letter I, Section 15, Township 20S, Range 37E



CONSULTING & SAFETY

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

November 18th, 2014

Dr. Tomáš Oberding, PhD

Environmental Specialist – New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, NM 88240

> RE: Termination Request ConocoPhillips SEMU DTB Battery (1RP-3233) UL/I sec. 15 T20S R37E API No. 3002506115

Dr. Oberding:

ConocoPhillips (CoP) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 4.1 miles southeast of Monument, New Mexico at UL/I sec. 15 T20S R37E. NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 78 +/- feet.

On November 21st, 2013, CoP found the fire tube on the heater was leaking. The wells to the heater were shut in. A total of 10 barrels of produced water and 14 barrels of oil were released over 3,031 square feet of battery lease pad. A vacuum truck was called to the site and recovered 10 barrels of oil. NMOCD and BLM were notified of the release on November 21st, 2013 and an initial C-141 was sent to NMOCD on November 25th, 2013 (Appendix A).

RECS personnel were on site beginning on November 26th, 2013 to assess the release. Soil samples were taken at the surface and at depth at four points within the release (Figure 1). Representative samples were taken to a commercial laboratory for analysis (Appendix B). Chloride values throughout the release were relatively low, except at the surface and 6 inches bgs at Point 1 and at 6 inches bgs at Point 3. Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) achieved levels below regulatory standards between 1 foot bgs and 1.5 feet bgs at all points except at Point 1. At Point 1, GRO readings returned values of non-detect beginning at 1 foot bgs, and DRO values were elevated throughout. BTEX readings achieved values below regulatory standards between 1 foot bgs and 2 foot bgs for each point.

A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on February 17th, 2014. NMOCD verbally approved the CAP on January 3rd, 2014 prior to formal submission of the documentation. BLM approved the CAP on February 19th, 2014 with the stipulation that the area

within the tank battery firewall will need to be remediated to below regulatory standards upon final abandonment. On January 3rd, 2014, NMOCD requested clean clay and caliche be imported to the site to serve as backfill. The bottom of the scrape needed to be backfilled with 4 inches of clay covered by 4 inches of caliche, and then the site contoured to the surrounding location.

Corrective actions began at the site on June 30th, 2014. The release area was scraped down 6 inches bgs to 1 foot bgs by hand. All excavated soil, for a total of 45 cubic yards, was taken to a NMOCD approved facility for disposal. Once the scrape was completed, a request to backfill the site was sent on July 8th, 2014 to NMOCD and BLM. NMOCD and BLM approved the site to be backfilled on the same day. A total of 20 cubic yards of clay and 45 cubic yards of caliche were imported to the site to serve as backfill. Four inches of clay was backfilled into the scrape and then covered by the imported caliche. A sample of the imported caliche was taken to a commercial laboratory for analysis and returned a chloride result of 64 mg/kg (Appendix B). The backfilled caliche was contoured by hand to the surrounding location.

Photo documentation of all activities can be found in Appendix C.

Given that the site has been scraped as per the approved CAP and backfilled with clean, imported soil, CoP respectfully requests 'remediation termination' and site closure with the stipulation that the remaining constituents will be remediated at facility abandonment. A final C-141 for the release can be found in Appendix D.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer

Project Scientist

RECS

(575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data

Appendix A – Initial C-141

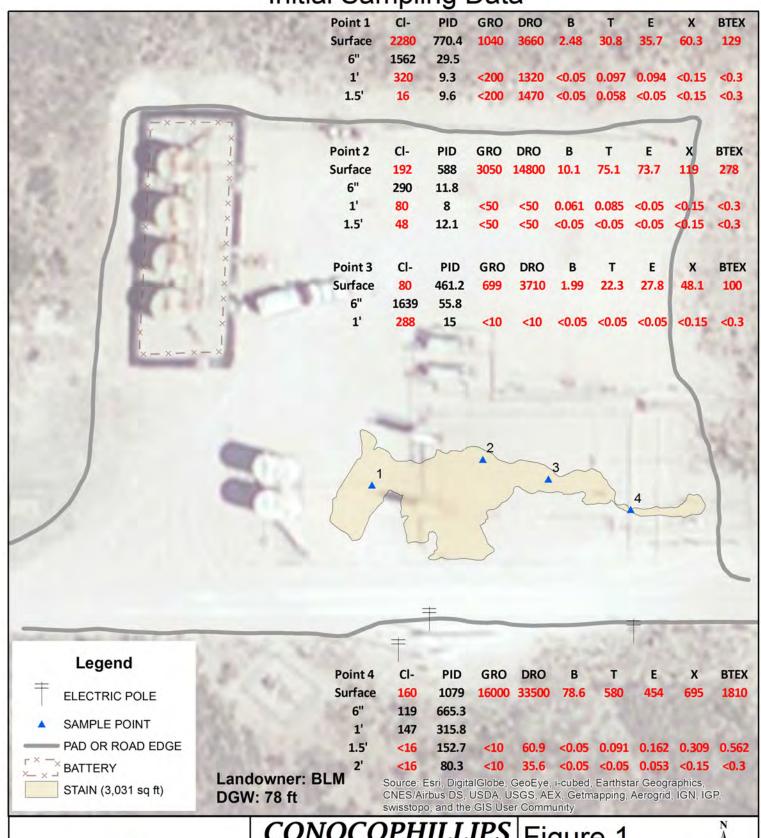
Appendix B – Site Sampling Labs

Appendix C – Photo Documentation

Appendix D – Final C-141

Figures

Initial Sampling Data



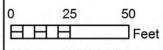


CONOCOPHILLIPS SEMU DTB **BATTERY**

ULI SECTION 15 T-20-S R-37-E LEA COUNTY, NM

Figure 1





GPS date: 11/26/13 CF Drawing date: 7/16/14

Drafted by: L. Weinheimer, T. Grieco

Appendix A Initial 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

HOBBS OCD

Form C-141 Revised August 8, 2011

AUG 1 2 2014 Revised August 6, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notif	fication	and Co	orrective A	ction	l		
		OPERA'	ГOR		Initia	ıl Report	Final Report
Name of Company: ConocoPhillips	(Contact: Da				-	- F
Address: 1410 North West County road			No. 575-391-31 ()6			
Facility Name: SEMU DTB Battery			e: Tank Batter				
Surface Owner: BLM Minera	ıl Owner B	BLM			API No	. 30025061	1500
LOG	CATION	OF REI	LEASE				
Unit Letter Section Township Range Feet from the I		South Line	Feet from the 660	East/V East	Vest Line	County LEA	
Latitude 32.5712292601113 Longitude - 1	103.23291	0645658					
	ATURE	OF REL					
Type of Release: Spill		+	Release: 24 BBL			ecovered: 1	
Source of Release: 4X20 Heater Treater	•	i .	lour of Occurrenc	e		Hour of Disc	covery
Was Immediate Notice Given?		11/21/13 If YES, To			SAME		
☐ Yes ☐ No ☐ Not	t Required		Geoffrey Leking	3			
By Whom? David May		Date and F	lour: 11/25/13 3:3	30 pm	***************************************		
Was a Watercourse Reached?		If YES, Vo	lume Impacting t	he Wate	ercourse.		
☐ Yes ⊠ No							
If a Watercourse was Impacted, Describe Fully.*					·	···	
		•					
Describe Area Affected and Cleanup Action Taken.* Spill amount was 10 BPW & 14 BO with 10 BO recover according to BLM requirements.	_				-		
I hereby certify that the information given above is true and corregulations all operators are required to report and/or file certai public health or the environment. The acceptance of a C-141 reshould their operations have failed to adequately investigate an or the environment. In addition, NMOCD acceptance of a C-14 federal, state, or local laws and/or regulations.	in release no eport by the d remediate	otifications and NMOCD meson contamination	nd perform correct arked as "Final Ro on that pose a thro	tive acti eport" d eat to gr	ons for rele oes not reli ound water	eases which eve the oper , surface wa	may endanger ator of liability ter, human health
			OIL CONS	SERV	ATION	DIVISIO	N
Signature:					- 		
Printed Name: David May		Approved by	Environmental S				
i inico ivanic. David iviay							
Title: LEAD HSE		Approval Dat	e: 8-12-14	1	Expiration	Date: 10	-14-14
E-mail Address: david.d.may@conocophillips.com			Supples ~			Attached	
D. 11/025/12	2106	-	MACA			100	
Date: 11/225/13 Phone:575-391- Attach Additional Sheets If Necessary	5100 [- /0	MOCO gu, to find C-	ORS	•	1/RP-3	
		Tuba	t time (=	141 h	9	•	d 217817
		10-14-	14.				1422 45 32
						070	141) 45241

Appendix B Site Sampling Labs



December 06, 2013

KYLE NORMAN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: SEMU DTB BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/02/13 15:15.

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 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 D. Keens

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



RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/26/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name: SEMU DTB BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 1 @ SURFACE (H302913-01)

BTEX 8021B	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.48	1.00	12/03/2013	ND	2.12	106	2.00	0.201	
Toluene*	30.8	1.00	12/03/2013	ND	2.11	105	2.00	0.713	
Ethylbenzene*	35.7	1.00	12/03/2013	ND	2.09	104	2.00	1.03	
Total Xylenes*	60.3	3.00	12/03/2013	ND	6.23	104	6.00	0.369	
Total BTEX	129	6.00	12/03/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	144	% 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	2280	16.0	12/04/2013	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ck					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1040	50.0	12/03/2013	ND	183	91.3	200	5.07	
DRO >C10-C28	3660	50.0	12/03/2013	ND	178	89.0	200	6.11	
Surrogate: 1-Chlorooctane	171	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	155	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/26/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name: SEMU DTB BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 2 @ SURFACE (H302913-02)

BTEX 8021B	mg,	kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.1	5.00	12/04/2013	ND	2.11	105	2.00	0.576	
Toluene*	75.1	5.00	12/04/2013	ND	2.11	106	2.00	1.07	
Ethylbenzene*	73.7	5.00	12/04/2013	ND	2.09	105	2.00	1.21	
Total Xylenes*	119	15.0	12/04/2013	ND	6.21	104	6.00	0.415	
Total BTEX	278	30.0	12/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 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	192	16.0	12/04/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: ck					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3050	200	12/03/2013	ND	183	91.3	200	5.07	
GKO C0-C10									

Surrogate: 1-Chlorooctadecane 298 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/26/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name:SEMU DTB BATTERYSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

Sample ID: POINT 3 @ SURFACE (H302913-03)

mg	/kg	Analyze	d By: CK					S-04
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1.99	1.00	12/04/2013	ND	2.11	105	2.00	0.576	
22.3	1.00	12/04/2013	ND	2.11	106	2.00	1.07	
27.8	1.00	12/04/2013	ND	2.09	105	2.00	1.21	
48.1	3.00	12/04/2013	ND	6.21	104	6.00	0.415	
100	6.00	12/04/2013	ND					
150	% 89.4-12	6						
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
80.0	16.0	12/04/2013	ND	416	104	400	0.00	
mg	/kg	Analyze	d By: ck					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
699	100	12/03/2013	ND	183	91.3	200	5.07	
3710	100	12/03/2013	ND	178	89.0	200	6.11	
	Result 1.99 22.3 27.8 48.1 100 150 mg, Result 80.0 mg, Result 699	1.99 1.00 22.3 1.00 27.8 1.00 48.1 3.00 100 6.00 150 % 89.4-12 mg/kg Result Reporting Limit 80.0 16.0 mg/kg Result Reporting Limit 699 100	Result Reporting Limit Analyzed 1.99 1.00 12/04/2013 22.3 1.00 12/04/2013 27.8 1.00 12/04/2013 48.1 3.00 12/04/2013 100 6.00 12/04/2013 *** 89.4-126** mg/kg Analyzed Result Reporting Limit Analyzed 80.0 16.0 12/04/2013 *** Analyzed Result Reporting Limit Analyzed 699 100 12/03/2013	Result Reporting Limit Analyzed Method Blank 1.99 1.00 12/04/2013 ND 22.3 1.00 12/04/2013 ND 27.8 1.00 12/04/2013 ND 48.1 3.00 12/04/2013 ND 100 6.00 12/04/2013 ND Result Reporting Limit Analyzed By: AP Result Reporting Limit Analyzed Method Blank 80.0 16.0 12/04/2013 ND mg/kg Analyzed By: ck Result Reporting Limit Analyzed Method Blank 699 100 12/03/2013 ND	Result Reporting Limit Analyzed Method Blank BS 1.99 1.00 12/04/2013 ND 2.11 22.3 1.00 12/04/2013 ND 2.11 27.8 1.00 12/04/2013 ND 2.09 48.1 3.00 12/04/2013 ND 6.21 100 6.00 12/04/2013 ND Fearly Result Reporting Limit Analyzed Method Blank BS 80.0 16.0 12/04/2013 ND 416 mg/kg Analyzed Method Blank BS Result Reporting Limit Analyzed Method Blank BS Result Reporting Limit Analyzed Method Blank BS	Result Reporting Limit Analyzed Method Blank BS % Recovery 1.99 1.00 12/04/2013 ND 2.11 105 22.3 1.00 12/04/2013 ND 2.11 106 27.8 1.00 12/04/2013 ND 2.09 105 48.1 3.00 12/04/2013 ND 6.21 104 100 6.00 12/04/2013 ND 5 89.4-126 Result Reporting Limit Analyzed Method Blank BS % Recovery 80.0 16.0 12/04/2013 ND 416 104 mg/kg Analyzed By: ck Result Reporting Limit Analyzed Method Blank BS % Recovery 699 100 12/03/2013 ND 183 91.3	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 1.99 1.00 12/04/2013 ND 2.11 105 2.00 22.3 1.00 12/04/2013 ND 2.09 105 2.00 27.8 1.00 12/04/2013 ND 6.21 104 6.00 48.1 3.00 12/04/2013 ND 6.21 104 6.00 100 6.00 12/04/2013 ND 89.4-126 7.00	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 1.99 1.00 12/04/2013 ND 2.11 105 2.00 0.576 22.3 1.00 12/04/2013 ND 2.11 106 2.00 1.07 27.8 1.00 12/04/2013 ND 2.09 105 2.00 1.21 48.1 3.00 12/04/2013 ND 6.21 104 6.00 0.415 100 6.00 12/04/2013 ND *** **

Surrogate: 1-Chlorooctane 155 % 65.2-140
Surrogate: 1-Chlorooctadecane 159 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/26/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name:SEMU DTB BATTERYSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

Sample ID: POINT 4 @ SURFACE (H302913-04)

BTEX 8021B	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	78.6	20.0	12/04/2013	ND	2.11	105	2.00	0.576	
Toluene*	580	20.0	12/04/2013	ND	2.11	106	2.00	1.07	
Ethylbenzene*	454	20.0	12/04/2013	ND	2.09	105	2.00	1.21	
Total Xylenes*	695	60.0	12/04/2013	ND	6.21	104	6.00	0.415	
Total BTEX	1810	120	12/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	130	% 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	160	16.0	12/04/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ck					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16000	200	12/03/2013	ND	183	91.3	200	5.07	
DRO >C10-C28	33500	200	12/03/2013	ND	178	89.0	200	6.11	
Surrogate: 1-Chlorooctane	373	% 65.2-14	0						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

291 %

63.6-154



RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/27/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name: SEMU DTB BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 1 @ 1' (H302913-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2013	ND	2.11	105	2.00	0.576	
Toluene*	0.097	0.050	12/04/2013	ND	2.11	106	2.00	1.07	
Ethylbenzene*	0.094	0.050	12/04/2013	ND	2.09	105	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2013	ND	6.21	104	6.00	0.415	
Total BTEX	<0.300	0.300	12/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 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	320	16.0	12/04/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	12/03/2013	ND	183	91.3	200	5.07	
DRO >C10-C28	1320	200	12/03/2013	ND	178	89.0	200	6.11	
Surrogate: 1-Chlorooctane	73.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/27/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name: SEMU DTB BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: POINT 1 @ 1.5' (H302913-06)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2013	ND	2.11	105	2.00	0.576	
Toluene*	0.058	0.050	12/04/2013	ND	2.11	106	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/04/2013	ND	2.09	105	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2013	ND	6.21	104	6.00	0.415	
Total BTEX	<0.300	0.300	12/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 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	16.0	16.0	12/04/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	12/03/2013	ND	183	91.3	200	5.07	
DRO >C10-C28	1470	200	12/03/2013	ND	178	89.0	200	6.11	
Surrogate: 1-Chlorooctane	83.7	% 65.2-14	0						

117 % 63.6-154 Surrogate: 1-Chlorooctadecane

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RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/27/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name: SEMU DTB BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 2 @ 1' (H302913-07)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.061	0.050	12/04/2013	ND	2.11	105	2.00	0.576	
Toluene*	0.085	0.050	12/04/2013	ND	2.11	106	2.00	1.07	
Ethylbenzene*	< 0.050	0.050	12/04/2013	ND	2.09	105	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2013	ND	6.21	104	6.00	0.415	
Total BTEX	<0.300	0.300	12/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 89.4-12	6						
Chloride, SM4500CI-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	12/04/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/03/2013	ND	183	91.3	200	5.07	
DRO >C10-C28	<50.0	50.0	12/03/2013	ND	178	89.0	200	6.11	
Surrogate: 1-Chlorooctane	91.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.3	% 63.6-15	4						

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KYLE NORMAN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/27/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name: SEMU DTB BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: POINT 2 @ 1.5' (H302913-08)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2013	ND	2.11	105	2.00	0.576	
Toluene*	<0.050	0.050	12/04/2013	ND	2.11	106	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/04/2013	ND	2.09	105	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2013	ND	6.21	104	6.00	0.415	
Total BTEX	<0.300	0.300	12/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 %	% 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	12/04/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/03/2013	ND	183	91.3	200	5.07	
DRO >C10-C28	<50.0	50.0	12/03/2013	ND	178	89.0	200	6.11	
Surrogate: 1-Chlorooctane	105 9	% 65.2-14	0						
G , I CH , I	1066		,						

106 % 63.6-154 Surrogate: 1-Chlorooctadecane

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KYLE NORMAN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/27/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name:SEMU DTB BATTERYSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

Sample ID: POINT 3 @ 1' (H302913-09)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2013	ND	2.11	105	2.00	0.576	
Toluene*	< 0.050	0.050	12/04/2013	ND	2.11	106	2.00	1.07	
Ethylbenzene*	< 0.050	0.050	12/04/2013	ND	2.09	105	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2013	ND	6.21	104	6.00	0.415	
Total BTEX	<0.300	0.300	12/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 %	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	288	16.0	12/04/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2013	ND	183	91.3	200	5.07	
DRO >C10-C28	<10.0	10.0	12/03/2013	ND	178	89.0	200	6.11	
Surrogate: 1-Chlorooctane	95.8 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.7	% 63.6-15	4						

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KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date: 11/27/2013

Reported: 12/06/2013 Sampling Type: Soil

Project Name:SEMU DTB BATTERYSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

Sample ID: POINT 4 @ 1.5' (H302913-10)

Sample 1D. POINT 4 @ 1.5 (H302913-10)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2013	ND	2.11	105	2.00	0.576	
Toluene*	0.091	0.050	12/04/2013	ND	2.11	106	2.00	1.07	
Ethylbenzene*	0.162	0.050	12/04/2013	ND	2.09	105	2.00	1.21	
Total Xylenes*	0.309	0.150	12/04/2013	ND	6.21	104	6.00	0.415	
Total BTEX	0.562	0.300	12/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 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	<16.0	16.0	12/04/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2013	ND	183	91.3	200	5.07	
DRO >C10-C28	60.9	10.0	12/03/2013	ND	178	89.0	200	6.11	
Surrogate: 1-Chlorooctane	90.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.0	% 63.6-15	4						

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11/27/2013



Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2013 Sampling Date:

Reported: 12/06/2013 Sampling Type: Soil

Project Name: SEMU DTB BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: POINT 4 @ 2' (H302913-11)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2013	ND	2.11	105	2.00	0.576	
Toluene*	<0.050	0.050	12/04/2013	ND	2.11	106	2.00	1.07	
Ethylbenzene*	0.053	0.050	12/04/2013	ND	2.09	105	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2013	ND	6.21	104	6.00	0.415	
Total BTEX	<0.300	0.300	12/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 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	<16.0	16.0	12/04/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2013	ND	183	91.3	200	5.07	
DRO >C10-C28	35.6	10.0	12/03/2013	ND	178	89.0	200	6.11	
Surrogate: 1-Chlorooctane	98.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.5	% 63.6-15	4						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

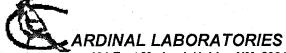
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

	Company Name: RECS								BI	4E 70		ANALYSIS REQUEST											
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PLEASE NOTE: Liability ar	d Damages. Cardinal's liability and client's exclusive remedy for	eny clair	n ansin	whethe	r based i	n contrac	t or to	rt, shall	be limited	to the amount pa	id by the client fo	rthe											

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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24



Company Name: RECS

2082

BILL TO

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Project Manage	oject Manager: Kyle Nosman						F	P.O. #:																
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July 16, 2014

KYLE NORMAN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: SEMU DTB BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/11/14 15:55.

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 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 D. 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



RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 07/11/2014 Sampling Date: 07/11/2014

Reported: 07/16/2014 Sampling Type: Soil

Project Name: SEMU DTB BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: IMPORTED BACKFILL (H402117-01)

Chloride, SM4500Cl-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	07/16/2014	ND	416	104	400	3.92	

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 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.



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

Cardinal Laboratories *=Accredited Analyte

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: RECS								100	RILL TO ANALYSIS REQUEST									QUEST			
Project Manager	Laura Flores , Kyle Norman	v						F	.0.												
Address:	7 1							0	omp	pany	y:							S			
City: Hobbs	State: NM	Zip	: 8	824	0			A	Attn:						1			o			
Phone #:	Fax #:							A	Address:									'n			
Project #:	Project Owne	r:						0	City:						Σ		Т	S/F			
Project Name: (Project Name: CoP						S	State: Zip:					Chlorides	2	-	Texas TPH	Suc				
Project Location: SEMU DTB Battery						P	Phone #:					1.5	TPH 8015	BTEX	S	atic	TDS				
Sampler Name: Chris Flores					F	Fax #:						x			Ö	F					
FOR LAB USE ONLY		1.	Г	F	٨	MATE	RIX	_	PF	ESE	RV.	SAMPLI	NG	Ö	直		e)	te			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					Complete Cations/Anions			
1	Imported Backfill	0	1			1				1	1	7-11-2014	10:00AW	X							

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shell be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waitived 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 consequental demages, 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 masons or otherwise.

Relinquished By:	Pate: 7-11-2014 Rec	eived By:	10-	Phone Result: Fax Result:	☐ Yes	☑ No ☑ No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Date: Red	Served By:	on	lweinheime	er@rice-	ecs.c	vd.com; lflores@ri com; knorman@ri n; sedwards@rice	ce-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cl	HECKED BY:	cursanic@ Environme	rice-ecs	.com		@rice-ecs.com

#5 C

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Appendix C Photo Documentation

ConocoPhillips SEMU DTB Battery Unit Letter I, Section 15, T20S, R37E



Initial release area, facing east

11/26/13



Initial release area, facing west

11/26/13



Initial release area, facing southwest

11/26/13



Initial release area, facing northwest

12/26/13



Initial release area, facing north

11/26/13



Hand auguring for depth, facing northwest 11/27/13



Sample the surface of release, facing west 11/26/13



Plugging augur point in total with bentonite, facing west 11/27/13



Scraping release by hand, facing southeast 6/30/14



Scrape completed, facing north





Scraping release by hand, facing east

7/1/14



Scrape completed, facing north

7/7/14



Scrape completed, facing west





Backfilling site with clay, facing south

7/11/14



Importing clay, facing southwest

7/11/14



Backfilling site with clay, facing southwest

7/11/14



Importing caliche, facing southwest

7/11/14



Backfilling the site with caliche, facing south 7/14/1



Backfilling the site with caliche, facing west 7/14/14



Site completed, facing north

7/14/14



Site completed, facing south

7/14/14



Site completed, facing south

7/14/14

Appendix D 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

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in

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.

			Rele	ease Notific	cation	and Co	orrective A	ction	l				
						OPERA	ГOR	al Report	\boxtimes	Final Report			
		onocoPhillij				Contact:	Dennis Ross						
		West Count				Telephone 1							
Facility Na	me: SEMU	U DTB Batt	ery			Facility Typ	e: Tank Batter	y					
Surface Ow	ner: BLM			Mineral C)wner B	BLM	11500						
		-	T =-			OF RE		T					
Unit Letter I	Section 15	Township 20S	Range 37E	Feet from the 1980	North/i South	South Line	Feet from the 660	East/\ East	West Line	County Lea			
Latitude 3	2.5712292	601113]	Longitude - 103	3.23291	0645658							
				-		OF REL	EASE						
Type of Rele							Release: 24 BBL			Recovered:			
Source of Re	elease: 4X20	Heater Treat	er			11/21/13		ce	Date and SAME	Hour of Di	scovery		
Was Immedi	ate Notice (Yes [] No □ Not Re	equired	If YES, To Jim Amos/	Whom? Geoffrey Leking						
By Whom? I	David May					Date and H	Hour: 11/25/13 3:3	30 pm					
Was a Water			Yes 🗵] No		If YES, Vo	olume Impacting	the Wat	ercourse.				
If a Watercourse was Impacted, Describe Fully.*													
	Describe Cause of Problem and Remedial Action Taken.* MSO found the fire tube on a heater was leaking. MSO shut in and isolated wells and called for vacuum truck. Spill amount was 10 BPW & 14 BO with 10 BO recovered.												
Describe Are on November were taken to Point 1 and a except at Point 2 and and at the yards, was to a NMOCD and were imported call hand to the signal of the environment of the en	ea Affected at 26 th , 2013 to a commerce at 6 inches be int 1. At Positive Values at 2014. Not 19 th , 2014 with the condition of the site on June also at 6 to the site inche was taken to a Not operations at 10 operations at 1	and Cleanup A to assess the recial laboratory gs at Point 3. int 1, GRO reads below regular MOCD verball with the stipular ary 3 rd , 2014, with 4 inches of 30 th , 2014. The MOCD approvation of the to serve as betten to a commolocation. Information give are required to the total comment. The lave failed to a didition, NMC was and/or regular and the serve and the total comment.	Action Tal release. So for analy GRO and adings retatory standing approvention that NMOCD of clay cooling approvence for a facility. Mapprovence for approvence for a facility iven above to report and adequately OCD accept	sen.* The release oil samples were sis. Chloride value DRO values achiurned values of no dards between 1 food the CAP on Janthe area within the requested clean clevered by 4 inches area was scraped of for disposal. On yed the site to be bour inches of clay oratory for analysical inches of a C-141 report investigate and rotange of a C-141	covered taken at the sthrout ieved level level level level by an auary 3rd, the tank ballay and coff caliched down 6 ce the scoackfilled was bactis and reference to the telease nor by the remediate report down down and the score of the sco	3,031 square the surface at a ghout the relevels below rept beginning a nd 2 foot bgs, 2014 prior to terror firewall caliche be imple, and then to inches bgs to the same kfilled into the turned a chlome best of myotifications are NMOCD mere contaminations not relieve	and at depth at four ease were relative gulatory standard to 1 foot bgs, and It for each point. As of formal submissist will need to be reported to the site contoured to 1 foot bgs by hampleted, a requested as 1 foot bgs and their ide result of 64 resu	r points ely low, s between DRO var A CAP var ion of the emediate to serve to the s and. All to back 20 cubic in covere mg/kg. Inderstative active active active act to great to grespons	within the except at the except at the 1 foot by lues were except as submitted documented to below as backfill urrounding excavated fill the site expands of code by the interest of the backfill and that puritions for relations	release. Rene surface a gs and 1.5 fe levated through the to NMO tation. BLI regulatory. The botton location. Country and 45 comported calieled caliche suant to NM eases which ieve the oper, surface woompliance	presentand 6 inceet bgs a bughout. OCD and M approsestandar m of the Correctivotal of 4 n July 8 cubic yache. As was conformed in may ererator of ater, hu with any	ative samples ches bgs at at all points. BTEX BEM on oved the CAP rds upon final excrape we actions 5 cubic cub, 2014 to ards of caliche sample of the atoured by ules and adanger fliability man health	
Printed Nam	e. Dei	s.	405	S Scot, con			Environmental S			D			
F-mail Addr	yera,	Mon o	Duje	7 607 6		Approval Da Conditions o			Expiration	Date:			
Date: //-			1035 (e	Phone: 575-390	0.24		ı Approvai:			Attached	d 🗌		
* Attach Add	itional She	ets If Necess	ary	110116. 12 · 2)	0-276	~7-							