Closure Report

AUG 1 2 2013

	Site Description	AHTESIA
Site Name:	MH Fed Com #1 N SWD	. <u></u>
Company:	Oxy Permian Ltd.	
Legal Description:	U/L N, Section 1, T22S, R24E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.41479° W 103.45555°	

Roleaso Data						
Date of Release:	06/05/2012					
Type of Release:	Produced Water					
Source of Release:	Charge pump did not start					
Volume of Release:	95 bbls					
Volume Recovered:	90 bbls					

Remediation Specifications								
Remediation Parameters: Excavate the entire spill area to a depth of 1 foot. Collect a minimum of 3 composite bottom, and sidewall confirmation samples and test them for TPH and BTEX. Then, backfill the site with clean soil.								
Remediation Activities:	06/10/2013 to 0	7/31/2013						
Dian Cont to OCD	09/11/2012	Email from Cliff Drupson to Mike Brotabor						
Plan Sent to OCD:		Email from Cliff Brunson to Mike Bratcher						
OCD Approval of Plan:	11/14/2013	Email from Mike Bratcher to Cliff Brunson						
Plan Sent to BLM:	Plan Sent to BLM: 12/16/2012 Email from Cliff Brunson to Terry Gregston							
BLM Approval of Plan:	01/14/2013	Email from Terry Gregston to Cliff Brunson						

	Supporting Documentation					
Initial C-141	Signed 06/07/2012					
Final C-141	Signed 08/09/2013					
Site Diagram	June 2012					
Groundwater Plot	<50'					
TOPO Maps	June 2012					
Lab Summary	07/05/2012 and 06/19/2013					
Lab Analysis	07/05/2012 and 06/19/2013					
Correspondence	Request and approval of remediation plan via email					

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

08/09/2013

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

1220 S. St. Pfan	icis Di., Sait	a re, inivi 6750		Sa	anta Fe	e, N∯ 875	505					side of form
			Rel	ease Notifi	catior	and Co	orrective A	ction				
						OPERA	TOR		🛛 Initi	al Report		Final Repo
Name of Co		Oxy Permi					Christopher Jone					
		Commerce D Fed Com #1				<u>Telephone</u> 1						
Facility Nat	ne MH	red Com #1	NSWD			Facilíty Typ	be Salt water	disposal				
Surface Ow	ner			Mineral C	Dwner	1			Lease N	No. NM#532	19 API	#30-015-22782
						OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	County		
N	1	225	24E	660'	<u> </u>	S	1650'		W	Eddy Cou	ity, N	М
				Latitude <u>N 32.4</u>	41479	Longit	ude <u>W 103.455</u>	<u>55</u>				
				NAT	URE	OF REL	EASE					
Type of Rele	and the second se	uced water			;	Volume of				Recovered	90 bb	
Source of Re	lease Cha	arge pump die	l not start			Date and F	lour of Occurrenc	e l	Date and 06/05/12	Hour of Dis	covery	/
Was Immedia	ite Notice (If YES, To	Whom?	l.		(13)		
		\boxtimes	Yes [No 🗌 Not R	equired	Mike Brate	her- OCD; Terry	Gregstor	n- BLM			
By Whom?	Christoph					Date and F						
Was a Watero	course Read		Yes 🛛			If YES, Volume Impacting the Watercourse						
						<u> </u>			1716	<u>suen</u>	/6	
If a Watercou	irse was Im	pacted, Descr	ibe Fully.'	k						AUG 12	2013	
· .									NMC	DCD AF	TE	SIA
Describe Cau					11		. 1 . 00 1 1 1	1.1		. 1		
Failure of a c	harge pump	to start cause	ed 95 bbis	of produced wate	r to Icak	onto the gro	and. 90 bbis of p	roduced	water were	e recovered v	/ia vac	cuum truck.
Describe Area					<i>:</i> .	<u> </u>						
				of produced wate of an OCD and B			und. 90 bbls of p	produced	water wer	e recovered	via va	cuum truck.
	-				ĺ							
				is true and comp id/or file certain re								
				e of a C-141 repo								
should their o	perations ha	ave failed to a	dequately	investigate and re	emediate	contaminati	on that pose a thre	eat to gro	und water	, surface wa	ter, hu	man health
or the environ federal, state,				tance of a C-141	report do	es not reliev	e the operator of r	responsib	ality for co	ompliance w	ith an	y other
		1//			·		OIL CONS	SERVA	ATION	DIVISIO	N	
Signature:												
					A	pproved by	District Supervise	or:				
Printed Name: Christopher Jones												
Title: HES	Specialist			ilati		pproval Dat	e:	E:	xpiration I	Jate:		
E-mail Addres	ss: Christ	topher_Jones(@oxy.com		; C	onditions of	Approval:			Attached		
Date:	- 2-	17	Phone:	(575) 628-412							<u> </u>	
Attach Additi	ional Shee	ts If Necess		(272) 020 412	<u> </u>							

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

			Rel	ease Notifi	catio	n and Co	orrective A	ctior	l			
						OPERA '	ГOR		🗌 Initi	al Report	\boxtimes	Final Repor
Name of Co		Oxy Permi				Contact (Christopher Jone	25				
		Commerce D		ad, NM		Telephone 1						
Facility Name MH Fed Com #1 N SWD						Facility Typ	e Salt water	disposa	.1			
Surface Owner Mineral Owner					Owner				Lease 1	No. NM#532	19 API#	\$30-015-22782
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/\	Vest Line	County		
N	1	228	24E	660'		S	1650'		W	Eddy Cou	nty, NN	vI
L				Latitude <u>N 32.</u>	41479	Longit	ude W 103.4555	55		J f=		
				NAT	TURE	OF REL						
Type of Rele	ase Prod	uced water				Volume of		ls	Volume I	Recovered	90 bbl	ls
Source of Re	lease Ch	arge pump die	l not start			Date and F 06/05/12 @	lour of Occurrenc	xe .	Date and 06/05/12	Hour of Dis	covery	
Was Immedi	ate Notice (Yes [No 🗌 Not R	anuirad	If YES, To		Creat		<u> </u>		
N . 111 - 0	<u></u>				.equireu							
By Whom? Was a Water	Christoph course Read						lour 06/06/12 (•		
fruo a trater	oourse reca		Yes 🗵	No		If YES, Volume Impacting the Watercourse.			States States			
If a Watercou	irse was lin	nacted Descr	ibe Fully ³	k				· · · · · · · · · · · · · · · · · · ·	(RE	CEIV		┝─┼────
	1130 was ini	pacted, Deser	ibe t uny.							10 10 0	040	4
									AL	JG 122	013	
									AINO		reei	A
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*						<u>uu An</u>	CO!	A
					er to leal	c onto the grou	und. 90 bbls of p	roduced	water were	e recovered	via vac	uum truck.
Describe Area	- A CC		A set of The I									
Describe Are Failure of a					er to lea	k onto the gro	und. 90 bbls of p	roduced	l water wer	e recovered	via vac	uum truck
Remediation	was comple	eted in accord	ance with	a remediation pla	in appro	ved by Mike I	Bratcher of NMO	CD via	email on 1	1/14/2012 ar	id appro	oved by
Terry Gregste	on of the BI	LM via email	on 01/14/2	2013.								
I hereby certi	fv that the i	nformation gi	ven above	is true and comp	lete to t	he best of my	knowledge and u	nderstar	d that nurs	uant to NM	OCD ri	ules and
regulations a	l operators	are required t	o report ar	d/or file certain r	elease n	otifications an	id perform correc	tive acti	ons for rele	eases which	may en	ndanger
public health	or the envir	ronment. The	acceptanc	e of a C-141 repo	ort by th	e NMOCD ma	arked as "Final Re	eport" d	oes not reli	ieve the oper	ator of	liability
should their o	perations h	ave failed to a	idequately	investigate and r	emediat	e contaminati	on that pose a three	eat to gr	ound water	; surface wa	ter, hu	man health
federal, state,	or local lay	ws and/or regu	lations.	tance of a C-141	report a	oes not reliev	e the operator of r	responsi	bility for c	ompliance w	/ith any	other
	11					·····	OIL CONS	SERV	ATION	DIVISIC)N	
Signature: /		1		and an experimental second								
Signature:		/										
Printed Name: Christopher Jones					Approved by	District Supervise	or:					
Title: HES	Specialist					Approval Dat	e:	I	Expiration I	Date:		
E-mail Addre	ss: Chris	topher_Jones	@oxy.com	L		Conditions of	Approval:			Attached		
Date: 8.	9-1	3	Phone:	(575) 628-412	1					Attached	Ц	
1 A 1 1 A	1.01	· TONT										

Attach Additional Sheets If Necessary





Groundwater Plot

Oxy MH Fed Com #1 N SWD



Location



Section Quarters

Oxy MH Fed Com #1 N SWD



✿ Location

o ocd

Oxy



Oxy MH Fed Com #1 N SWD 13912 (3746 T/ Boydsi // 5.I. Waterhole × 3897 1812 3788T × 0 - -997 ----1 ĥ, 6 \mathbb{Z} 0 1 // $\|$ // ×/38091 0 (×)3869 Ø the second *#* Walt Spring) 11 . 11 37850 1 378dT TI) 39927 х 4)VI IN Nagooltee Peak DŀŃ 4186 o 1205 Œ Ľ Ē Л 3998 39397 agge GW × 389,2T 38027 3916 ×

Laboratory Analytical Results Summary OXY, MH Fed Com #1 NSWD

		Sample	SP1 @ SURFACE	SP1 @ 6"	SP1 @ 1'
Analyte	Method	Date	7/5/12	7/5/12	7/5/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4720	480	272

		Sample	SP2 @ SURFACE	SP2 @ 6"	SP2 @ 1'
Analyte	Method	Date	7/5/12	7/5/12	7/5/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2000	192	336

		Sample	SP3 @ SURFACE	SP3 @ 6"	SP3 @ 1'
Analyte	Method	Date	7/5/12	7/5/12	7/5/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2360	192	352

		Sample	SP4 @ SURFACE	SP4 @ 6"	SP4 @ 1'
Analyte	Method	Date	7/5/12	7/5/12	7/5/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2040	224	352

Laboratory Analytical Results Summary MH Fed Com #1 N SWD

,

		Sample	SP1 @ East Wall	SP2 @ North Wall	SP3 @ West Wall	SP4 @ South Wall
Analyte	Method	Date	6/19/13	6/19/13	6/19/13	6/19/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		144	128	144	176

		Sample	SP5 @ 3 Point Composite at 1'	SP6 @ 3-Point Composite at 1'	SP7 @ 3-Point Composite at 1'
Analyte	 Method 	Date	6/19/13	6/19/13	6/19/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	<0.050	<0.050
Toluene	BTEX 8021B		< 0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	<0.300
Chloride	SM4500CI-B		<16.0	<16.0	144
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		23.1	21.6	<10.0



July 10, 2012

Cliff Brunson BBC International, Inc. P.O. Box 805 Hobbs, NM 88241

RE: MH FED COM 1 N SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/06/12 13:28.

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/qa/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lope S. Moreno

Hope Moreno Inorganic Technical Director



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	07/06/2012	Sampling Date:	07/05/2012
Reported:	07/10/2012	Sampling Type:	Soil
Project Name:	MH FED COM 1 N SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	N. CARLSBAD		

Sample ID: SP 1 @ SURFACE (H201537-01)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	07/10/2012	ND	416	104	400	3.92	

Sample ID: SP 1 @ 6" (H201537-02)

Chloride, SM4500Cl-B	mg,	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/10/2012	ND	416	104	400	3.92	

Sample ID: SP 1 @ 1' (H201537-03)

Chloride, SM4500CI-B	3 mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/10/2012	ND	416	104	400	3.92	

Sample ID: SP 2 @ SURFACE (H201537-04)

Chloride, SM4500CI-B	Analyze	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/10/2012	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Lope S. Moreno

Hope Moreno, Inorganic Technical Director



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	07/06/2012	Sampling Date:	07/05/2012
Reported:	07/10/2012	Sampling Type:	Soil
Project Name:	MH FED COM 1 N SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	N. CARLSBAD		

Sample ID: SP 2 @ 6" (H201537-05)

Chloride, SM4500Cl-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	07/10/2012	ND	416	104	400	3.92	

Sample ID: SP 2 @ 1' (H201537-06)

Chloride, SM4500CI-B	Chloride, SM4500CI-B mg/kg							_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/10/2012	ND	416	104	400	3.92	

Sample ID: SP 3 @ SURFACE (H201537-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/10/2012	ND	416	104	400	3.92	

Sample ID: SP 3 @ 6" (H201537-08)

Chloride, SM4500Cl-B	Chloride, SM4500CI-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/10/2012	ND	416	104	400	3.92	

Sample ID: SP 3 @ 1' (H201537-09)

Chloride, SM4500CI-B mg/kg			Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/10/2012	ND	416	104	400	3.92	

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Lope S. Moreno

Hope Moreno, Inorganic Technical Director



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	07/06/2012	Sampling Date:	07/05/2012
Reported:	07/10/2012	Sampling Type:	Soil
Project Name:	MH FED COM 1 N SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	N. CARLSBAD		

Sample ID: SP 4 @ SURFACE (H201537-10)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP		···			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/10/2012	ND	416	104	400	3.92	

Sample ID: SP 4 @ 6" (H201537-11)

Chloride, SM4500CI-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	07/10/2012	ND	416	104	400	3.92	

Sample ID: SP 4 @ 1' (H201537-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/10/2012	ND	416	104	400	3.92	

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Hope S. Moreno

Hope Moreno, Inorganic Technical Director



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Lope S. Moreno

Hope Moreno, Inorganic Technical Director

Page 5 of 7



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	BBC International, Inc.							BILL TO							 ANA	LYSI	S RI	EQUE	ST	·			
Project Manager	Cliff Brunson								D. #:														
Address: P.O.	Box 805							Co	mpa	any:						1				Ì			
City: Hobbs	State: NM	Zip	: 8	824	41			Attn:															
Phone #: 575-3	397-6388 Fax #: 575-						******	Address													i		
Project #: //								Cit	y:	·····	/	171							1				
Project Name:	MH Fed Com 1 N SWD							Sta	ate:			Zip:											
	n: N. Carlsbad							Ph	one	#:													
	Roger Hernandez							Fa	 x #:														
FOR LAB USE ONLY				,	N	IATR	IX		PR	ESEF	ŧ٧.	SAMPLI	NG						1				
Lab I.D. H201537	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	7/5/17 DATE	/ TIME	** >~ *									
1	SP1 @ Surface		Ŀ									7/15/12	10:15 am	\checkmark					_			 	
19th	SP1 @ 6"		<u>:</u>					_		·		7/15/12	10:35 am	1			 					 	
	SP1 @ 1'					<u></u>						7/15/12	10:58 am	<u> </u>			 					 	
	SP2 @ Surface		ŀ					_				7/45/12	11:20 am				 					 	
5		<u> </u>	<u>:</u>			· '		_	<u> </u>			7/45/12	11:40 am				 _					 	
	SP2 @ 1'		<u>ì</u>			<u>`</u>		_				7/45/42			<u> </u>		 					 	
7	SP3 @ Surface		1			·						7/15/12	12:19 pm	- <u>-</u>			 		_			 	
	SP3 @ 6")					_				7/15/12	12:38 pm				 	_	_			 	
-1	SP3 @ 1'		12				-					7/15/12	12:59 pm										
10	SP4 @ Surface					···.						7415/12	1:17 pm	✓									

PLEASE NOTE: Liabity and Damages. Careinal's liabity and clean's exclusive remody for any chim arising whether based in contract or tert, shall be limited to the amount part by the client for the analyses. All claims including these for negligence and only other cause whatseever shall be deemed waived unless made in writing and received by Cardinal within 30 days after complexition of the applicable service. In no event shall Cardinal to fable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or less of profile incurred by client, its subsidiarities,

alfiliates or successore prising out of or related to the performance of sorvices hereunder by Cordinal regardless of whother such claim is based upon any of the above stated s or otherwise Date: 🗆 Yes **Relinquished By:** Received By: Phone Result: D No Add'l Phone #: Yes 🗆 No 🛛 Add'i Fax #: Fax Result: REMARKS: Time: 20gen 1 C1.12.12.1 8:00 Relinquished By: Date: 16/12 Received By Time: 1.28 Delivered By: (Circle One) CHECKED BY: Sample Condition 1 Cool Intact Yes ⊒•Yes No No (Initials) D Sampler - UPS - Bus - Other: 5 isti r.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Company Name	ompany Name: BBC International, Inc.					BILL TO BILL					ALC IN				-	ANAL	YSIS	6 RE	QUES	ST			
	r: Cliff Brunson							Õ. #															
Address: P.O.	Box 805						c	omp	any	<i>ı</i> :			1										
City: Hobbs	State: NM	Zip:	88	3241			A1	tn:															
Phone #: 575-3	397-6388 Fax #: 575	-397	-03	97			A	ddre	ss	<u> </u>)		1										
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Project Name:	MH Fed Com 1 N SWD						SI	ate	:		Zip:	<u> </u>										[
Project Location	n: N. Carlsbad						P	Phone #:															
Sampler Name: Roger Hernandez					Fa	ax #	:																
FOR LAB USE ONLY					MAT	RIX		PR	RESE	RV.	SAMPLI	NG											
Lab I.D. H201537	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	IGROUNDWATER WASTEWATER	SOIL	OIL	SLUUGE OTHER :	ACID/BASE:	ICE / COOL	OTHER :	-7/5/12 Date	TIME	an saint Na										
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ani ares of successors ansing out of or related to the performance of	if services hereunder by Co	ardinal, redardiess of whether such carm is bas	ed upon any or the above stared re-	ISONS OF OTHERWISE,				
Relinquished By:	Date:	Received/By: //		Phone Result:	🛛 Yes	O No	Add'l Phone #:	
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Page 7 of 7



June 25, 2013

Cliff Brunson BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MH FED COM 1 N SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/19/13 15:45.

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/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	06/19/2013	Sampling Date:	06/19/2013
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	MH FED COM 1 N SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	N. CARLSBAD		

Sample ID: SP 1 @ WALL (H301423-01)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/21/2013	ND	416	104	400	0.00	

Sample ID: SP 2 @ N. WALL (H301423-02)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/21/2013	ND	416	104	400	0.00	

Sample ID: SP 3 @ W. WALL (H301423-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/24/2013	ND	432	108	400	3.77	

Sample ID: SP 4 @ S. WALL (H301423-04)

Chloride, SM4500Cl-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	06/24/2013	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey & Kune

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	06/19/2013	Sampling Date:	06/19/2013
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	MH FED COM 1 N SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	N. CARLSBAD		

Sample ID: SP 5 @ 3. COMP 1' (H301423-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	<0.050	0.050	06/21/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	06/21/2013	ND	2.11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/21/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/21/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 \$	% 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	<16.0	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
		10.0	06/21/2013	ND	213	106	200	0.956	
GRO C6-C10	<10.0	10.0	00/21/2015						

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

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Celey E. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	06/19/2013	Sampling Date:	06/19/2013
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	MH FED COM 1 N SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	N. CARLSBAD		

Sample ID: SP 6 @ 3. COMP 1' (H301423-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	<0.050	0.050	06/21/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	06/21/2013	ND	2.11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/21/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 118 % 89.4-126

85.8 %

63.6-154

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/21/2013	ND	213	106	200	0.956	
DRO >C10-C28	21.6	10.0	06/21/2013	ND	213	106	200	3.66	

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Surrogate: 1-Chlorooctadecane

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	06/19/2013	Sampling Date:	06/19/2013
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	MH FED COM 1 N SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	N. CARLSBAD		

Sample ID: SP 7 @ 3. COMP 1' (H301423-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	<0.050	0.050	06/21/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	06/21/2013	ND	2,11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/21/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/21/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116 %	6 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	144	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/21/2013	ND	213	106	200	0.956	
DRO >C10-C28	<10.0	10.0	06/21/2013	ND	213	106	200	3.66	
Surrogate: 1-Chlorooctane	89.6%	65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.2 %	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 7 of

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Project Manager: Cliff Brunson			····.		P.0		DI					[[ANA				51	<u> </u>		
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-8476 # 54

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Kathy Purvis

From:	Cliff P. Brunson < cbrunson@bbcinternational.com>
Sent:	Wednesday, November 28, 2012 10:56 AM
То:	Kathy Purvis
Subject:	FW: MH Fed Com #1 N SWD

From: Mike Bratcher <<u>mike.bratcher@state.nm.us</u>>

Date: Wednesday, November 14, 2012 2:25 PM

To: Cliff Brunson < <u>cbrunson@bbcinternational.com</u>>

Cc: Chris Jones <<u>Christopher_Jones@oxy.com</u>>, Ken Swinney <<u>kswinney@bbcinternational.com</u>>, Kathy Purvis <<u>kathy@bbcinternational.com</u>>, Jennifer Gilkey <<u>jgilkey@bbcinternational.com</u>> Subject: RE: MH Fed Com #1 N SWD

Reference: OXY USA * MH Fed Com SWD 1 * 30-015-22782 * N-1-22s-24e * Eddy County, New Mexico OCD Reference Number: 2RP-1171 * Date of release: 6/5/12

Cliff,

Your proposal for remediation of the above referenced release is approved with the following conditions/stipulations:

- Notify OCD 48 hours prior to commencement of remedial operations.
- Notify OCD 48 hours prior to obtaining samples where the analyses are to be submitted to OCD.
- Obtain representative confirmation samples of bottom and sidewalls of excavation.
- Obtain a minimum of three composite samples from representative areas of the excavation bottom and test for TPH/BTEX.
- Obtain approval prior to backfilling excavations.
- Submit a closure report and Form C-141 marked Final Report upon satisfactory completion of project.
- Approval by BLM and/or any other regulatory authority as may be applicable.

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, and for notification, 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: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Tuesday, September 11, 2012 6:47 PM
To: Bratcher, Mike, EMNRD
Cc: Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey
Subject: MH Fed Com #1 N SWD

Mike,

This e-mail is to confirm our discussion on September 5, 2012 concerning the remediation plan for the release that occurred at the Oxy MH Fed Com #1 N SWD. As agreed, Oxy will excavate to a depth of 1 foot across the entire spill area as depicted on the attached site diagram. The excavation will then be backfilled with clean soil. The depth to groundwater is this area is approximately 50 feet.

I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

Thanks, Cliff

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

Kathy Purvis

From:	Gregston, Terry G <tgregsto@blm.gov></tgregsto@blm.gov>
Sent:	Monday, January 14, 2013 10:57 AM
То:	Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Amos, James A
Cc:	mike.bratcher@state.nm.us
Subject:	Undesirable Event: NU12134TG, M H Federal 1: cleanup plan approval stipulations

Mr. Jones, Mr. Brunson,

This notification is in regard to the following location and undesirable event:

Event Number: NU12134TG Event Date: 6/5/2012 Event Name: M H Federal 1 Legals: T22S/R24E, sec. 1, SESW

The submitted cleanup plan for the above location is approved with the following conditions of approval:

Notification Stipulations:

1. A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.

2. The authorized officer must be notified at the following phases of cleanup or conditions:

a. Prior to moving equipment on location for cleanup

- b. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.
- c. When the cleanup work is nearing completion and to schedule a final onsite prior to removal of equipment.
- d. Three days before the site is seeded.
- e. Any time that a variance of the approved plan or conditions of approval is required.
- f. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the

Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.

3. The authorized officer on this undesirable event case is:

Terry Gregston (575) 361-2635 tgregsto@blm.gov

Archeology Stipulations:

1. There are no known archeological issues on this location.

In the event that archeological artifacts are discovered during cleanup operations, contact the authorized officer on this case immediately. An onsite will be required to assess the situation.

Facility Cleanup Stipulations:

Unlined facility:

1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures. In this case, the location is still a working tank battery location. As such, excavation depths in portions of the spill area in close proximity to standing production equipment may be limited due to safety concerns. In such cases, the cleanup measures will be considered a temporary spill abatement measure that will be further mitigated upon the abandonment of the well/facility location. Appropriate notations to that effect will be entered in the well file.

2. Cleanup will include removal of any contaminated berm materials and/or unsuitable berm materials such as sandy soils, gravels, or cobblestones. Tank battery berms should be built of compactable caliche that is capable of fluid containment.

3. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule.

4. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.5. Once final approval of cleanup is given, the excavation can be backfilled with compactable caliche to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.

6. Install secondary containment berms of good quality compactable caliche around existing production equipment and the pad to prevent future spills from being released off the facility location.

7. Restore, recontour, and reseed any pasture disturbances that were created during the cleanup operations.

Other Stipulations:

1. At the time of the final onsite for this location, the production facilities, well pad, access road, and the surrounding pasture areas must be in a condition that will pass a routine inspection.

2. All household trash, debris, disconnected pipe and equipment must be removed from the area and the surrounding pasture and hauled to an authorized landfill. Do not bury cleanup trash, equipment debris, or household garbage in the cleanup excavation.

BLM approval of this proposal does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health, or the environment, or if the location fails to reclaim properly. In such an event that location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

Thank you for your attention to this matter,

Terry Gregston

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