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

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State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised April 3, 2017

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.

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Name of Come		TICA T	NC						OPERA Contract		DITTRI	CH		Initia	al Re	eport		X F	inal Re
	Name of Company OXY USA INC										-								
Address PO BOX 4294; HOUSTON, TX 77210 Facility Name Shell State #3 CTB						Telephone Facility Ty		75-390- ATTERY		_			-	_					
						D/ D/	ATTER I						_	_					
Surface Owner	STATE					Minera	<u>1 Ov</u>	wner	STATE	_		-	ł	API No).	30-02	25-33	3246	_
tt b.t.o. l.e.									N OF RE										_
	Unit Letter Section Township Range Feet from the Nor				North/	South Line	Feet f	from the	Eas	l/Wes	t Line			C	ounty				
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			L	atituo	de_	<u>N 32.3</u>	4979	<u>9_</u> Lo	ngitude_ <u>V</u>	/ 103.62	2951_ N	IAD8	3						
						NA	T	URE	OF REL	EASE)								
Type of Release	OIL & PROI	DUCE	D WA'	TER					Volume o & 10 bbls			Is OIL	, V	olume F	Reco	vered	18	bbls	
Source of Release	e Power loss	s caused	d the ta	ank to	spil	ll over			Date and 1 08/31/201	Hour of (the second s	Da	ite and	Hou	r of D	iscov	ery	
Was Immediate N	Notice Given?		•	_			_		If YES, T	o Whom									
						Not Not	Req	quired	Jamie Ke	-	-								
By Whom? Kat	thy Purvis @ E	BBC In	ternati	ional I	Inc.				Date and										
Was a Watercourse Reached?					If YES, V	olume Ir	npacting	ine W	aterco	urse.									
			res		NO														
If a Watercourse v Describe Cause of	f Problem and	Descri	ibe Full dial Ac	ly.* tion T	Take														
Describe Cause of A loss of power c fluids and the po	f Problem and caused a tank ower was resto	Descri Remector to spill pred.	ibe Full dial Ac I over a	ly.* tion T and le	Take		ofoi	il and 1	10 bbls of p	roduced	water. A	vacut	Jm tri	JCK rec	over	ed all	the	free-s	tanding
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	Site Description
Site Name:	Shell State #3 CTB
Company:	Oxy Permian Ltd.
Legal Description:	U/L F, Section 36, T22S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.34979° W 103.62951°

Release Data

Date of Release:	08/31/2016
Type of Release:	Oil and produced water
Source of Release:	Power loss caused tank to spill over
Volume of Release:	10 bbls oil, 10 bbls produced water
Volume Recovered:	18 bbls

Remediation Specifications						
Remediation Parameters:	of 1 foot, Submit confirmation sam Excavate SP8 an	P2, SP3, SP6, SP7, SP10, SP11, SP12 to a depth laboratory analyses of bottom and sidewall ples. Scrape surface 6 inches at SP4 & SP5. d SP9 to a depth of 2.5 feet. Submit laboratory m and sidewall confirmation samples.				
Remediation Activities:	11/28/2017 to 1	2/07/2017				
Plan Sent to OCD:	11/01/2016	Email from Cliff Brunson to Kristen Lynch				
OCD Approval of Plan:	06/02/2017	Email from Olivia Yu to Casey Summers				
Plan Sent to SLO: 06/12/2017 Email from Cliff Brunson to Amber Groves						
SLO Approval of Plan:	06/20/2017	Email from Amber Groves to Cliff Brunson				

Supporting Documentation

Initial C-141	Signed 09/12/2016
Final C-141	Upon completion
Site Diagram	September 2016
Groundwater Plot	375'
TOPO Maps	September 2016
Lab Summary	09/20/2016-09/21/2016 and 12/05/2017
Lab Analysis	09/20/2016-09/21/2016 and 12/05/2017
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan, BBC requests closure approval from NMOCD.

Wade Dittrich, Oxy Permian Ltd.

12/18/2017

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division

Submit 1 Copy to appropriate District Office in

000 Rio Brazos Road, Azte <u>District IV</u> 220 S, St. Francis Dr., San		5			St. Franc NM 875		ac	cordance v	700 NMAC
		Relea				rective Ac	tion		
					OPERAT			Report	Final Report
Name of Company	Name of Company Oxy Permian Ltd.								
	rive, Midland Il State #3 Cl		/05		Telephone N Facility Typ		-8289		
			Nr		racinty Typ	c Battery		20.025	22246
Surface Owner Sta	te		Mineral C					. 30-025-:	33246
Unit Letter Section	Township	Range	LOCA'		OF REL	EASE Feet from the	East/West Line	County	
			reet nom the		South Line	Feet from the	East west Line		
F 36	225	32E						Lea Cour	ity, NM
		L	atitude N 32,34	4979°	Longitud	e <u>W 103.62951</u>	-		
			NATU	URE C)F RELE				
Type of Release Oil a	nd Produced w	vater				Release 10 bbls duced water	oil, Volume I	Recovered	18 bbls
Source of Release Pov	ver loss caused	the tank t	o spill over		Date and H	lour of Occurrenc	e Date and	Hour of Di	scovery
Was Immediate Notice	Given?				08/31/2016				
			No 🗌 Not R	equired	, i i i i i i i i i i i i i i i i i i i	es, Kristen Lynch			
By Whom? Kathy Pu Was a Watercourse Rea	irvis @ BBC I ichad?	nternation	al Inc.			lour 08/31/2010 olume Impacting t			
mas a matereourse Rea		Yes 🗵	No			nume impacting t	ne watercourse.		
If a Watercourse was In	npacted, Descr	ibe Fully.*	k					30 1	
A loss of power caused and the power was resto Describe Area Affected	and Cleanup /	Action Tal	ken.*						
The affected area is app from NMOCD.									
I hereby certify that the regulations all operators public health or the env should their operations or the environment. In federal, state, or local a	s are required t ironment. The have failed to a addition, NMC	o report an acceptance adequately OCD accept	nd/or file certain r ce of a C-141 report investigate and r	elease no ort by the emediate	otifications a NMOCD m e contaminati	nd perform correc arked as "Final R on that pose a thr	tive actions for rele eport" does not rele eat to ground wate	eases which ieve the op r, surface w	h may endanger erator of liability rater, human health
Signature:					OIL CONSERVATION DIVISION				
Printed Name: Casey Summers Approved by Environmental Specialist:									
Title: NM Environme	ntal Advisor				Approval Dat	e:	Expiration	Date:	
E-mail Address: <u>Casey_Summers@oxy.com</u> Date: <u>9-12-16</u> Phone: (575) 513-8289					Conditions of Approval: Attached			d []	
ttach Additional Shee	IS II Necessa	гу							



Oxy, Shell State #3 CTB

Sample points, hand auger

- SP1, N 32.34993 W-103.62880
- SP2, N 32.35006 W-103.62887
- SP3, N 32.35014 W-103.62887
- SP4, N 32.35000 W-103.62907
- SP5, N 32.34993 W-103.62917
- SP6, N 32.34986 W-103.62947
- SP7, N 32.34985 W-103.62963
- SP8, N 32.34977 W-103.62968
- SP9, N 32.34977 W-103.62952
- SP10, N 32.34970 W-103.62945
- SP11, N 32.34977 W-103.62938
- SP12, N 32.34970 W-103.62929

Confirmation sample points, hand auger

- B1, N 32.34999 W-103.62880
- B2, N 32.35011 W-103.62887
- B3, N 32.34985 W-103.62951
- B4, N 32.34980 W-103.62967
- B5, N 32.34977 W-103.62949
- B6, N 32.34970 W-103.62937
- S1, N 32.34987 W-103.62877
- S2, N 32.35003 W-103.62878
- S3, N 32.35015 W-103.62890
- S4, N 32.34985 W-103.62923
- S5, N 32.34984 W-103.62944

- S6, N 32.34987 W-103.62961 S7, N 32.34977 W-103.62971 S8, N 32.34968 W-103.62962 S9, N 32.34973 W-103.62954 S10, N 32.34967 W-103.62942
- S11, N 32.34974 W-103.62926
- S12, N 32.34979 W-103.62941

Oxy, Shell State #3 CTB U/L F, Section 36, T22S, R32E



Received by OCD: 4/4/2023 8:23:21 AM

?

New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 628870

Northing (Y): 3580064

Radius: 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/18/17 2:24 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

http://nmwrrs.ose.state.nm.us/...%22%203580064.0%20%22%2C%0A%22R%22%3A%221700%22%2C%0A%22PLSSDiv%22%3A%22false%22%7D[12/18/2017 2:25:01 PM]

UTM Conversion Tool Received by OCD: 4/4/2023 8:23:21 AM

Q64: C		Survey System (PLSS) Sec: 36 Tws: 22S	Rng: 32E
	State Plane Coo	rdinate System - NAD27	
X: ft	Y: ft	Zone:	
5	State Plane Coo	rdinate System - NAD83	
X: ft	Y: ft	Zone:	
	Degrees/	Minutes/Seconds	
Longitude (X):	Degrees: °	Minutes: ' Seconds:	
Latitude (Y):	Degrees: °	Minutes: ' Seconds:	
	UT	M - NAD27	
Easting (X):		mtrs Zone:	
		SUBMIT	
80		lisplayed as <u>NAD 1983 UTM Zon</u>	<u>le 13</u>
Easting (X):	628870.0 mtrs	Northing (Y): 3580064.0	mtrs
	~~ Please keep screen oper	n to copy UTM values for Reports. ~~	

Shell State #3 CTB

Оху



Released to Imaging: 4/5/2023 8:29:14 AM

Оху

Shell State #3 CTB



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Laboratory Analytical Results Summary Shell State #3 CTB

SP6 @ Surface

9/20/16 mg/Kg

< 0.050

0.144

0.075

0.33

0.586

1390

<50.0

9470

SP6 @ 1'

9/20/16

mg/Kg

< 0.050

< 0.050

< 0.050

<0.150

< 0.300

96

<10.0

<10.0

Sample

Date

		Sample	SP1 @ Surface	SP1 @ 1'
Analyte	Method	Date	9/20/16	9/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.156	< 0.050
Ethylbenzene	BTEX 8021B		0.14	< 0.050
Total Xylenes	BTEX 8021B		0.551	<0.150
Total BTEX	BTEX 8021B		0.847	< 0.300
Chloride	SM4500CI-B		32	<16.0
GRO	TPH 8015M		<200	<10.0
DRO	TPH 8015M		23900	<10.0

		Sample	SP5 @ Surface
Analyte	Method	Date	9/20/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		14.2

Method

BTEX 8021B

BTEX 8021B

BTEX 8021B

SM4500CI-B

TPH 8015M

TPH 8015M

Ethylbenzene BTEX 8021B

Total Xylenes BTEX 8021B

Analyte

Benzene

Toluene

Chloride

GRO

DRO

Total BTEX

		Sample	SP2 @ Surface	SP2 @ 1'
Analyte	Method	Date	9/20/16	9/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.185	< 0.050
Ethylbenzene	BTEX 8021B		0.15	< 0.050
Total Xylenes	BTEX 8021B		0.59	<0.150
Total BTEX	BTEX 8021B		0.924	< 0.300
Chloride	SM4500CI-B		32	<16.0
GRO	TPH 8015M		<200	<10.0
DRO	TPH 8015M		22700	<10.0

		Sample	SP3 @ Surface	SP3 @ 1'
Analyte	Method	Date	9/20/16	9/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	< 0.050
Toluene	BTEX 8021B		0.091	< 0.050
Ethylbenzene	BTEX 8021B		0.065	< 0.050
Total Xylenes	BTEX 8021B		0.251	<0.150
Total BTEX	BTEX 8021B		0.408	< 0.300
Chloride	SM4500CI-B		<16.0	<16.0
GRO	TPH 8015M		<200	<10.0
DRO	TPH 8015M		8000	<10.0

		Sample	SP4 @ Surface
Analyte	Method	Date	9/20/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP7 @ Surface	SP7 @ 1'
Analyte	Method	Date	9/20/16	9/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.141	< 0.050
Ethylbenzene	BTEX 8021B		0.086	< 0.050
Total Xylenes	BTEX 8021B		0.355	<0.150
Total BTEX	BTEX 8021B		0.582	< 0.300
Chloride	SM4500CI-B		176	<16.0
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		8100	<10.0
			000 @	

		Sample	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		0.096	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	< 0.300	N/A	N/A
Chloride	SM4500CI-B		480	2040	1960	32
GRO	TPH 8015M		<50.0	<10.0	N/A	N/A
DRO	TPH 8015M		1970	21.9	N/A	N/A

		Sample	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Toluene	BTEX 8021B		0.091	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.111	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		0.278	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		0.481	< 0.300	N/A	N/A
Chloride	SM4500CI-B		16	352	992	160
GRO	TPH 8015M		<100	<10.0	N/A	N/A
DRO	TPH 8015M		9460	<10.0	N/A	N/A

		Sample	SP10 @ Surface	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Toluene	BTEX 8021B		0.095	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.116	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		0.314	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		0.525	< 0.300	N/A	N/A
Chloride	SM4500CI-B		16	336	320	224
GRO	TPH 8015M		<100	<10.0	N/A	N/A
DRO	TPH 8015M		10800	12.4	N/A	N/A

		Sample	SP11 @ Surface	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Toluene	BTEX 8021B		0.187	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.238	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		0.848	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		1.27	< 0.300	N/A	N/A
Chloride	SM4500CI-B		96	960	320	32
GRO	TPH 8015M		<100	<10.0	N/A	N/A
DRO	TPH 8015M		7630	45.2	N/A	N/A

		Sample	SP12 @ Surface	SP12 @ 1'	SP12 @ 2'	SP12 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Toluene	BTEX 8021B		0.259	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.211	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		0.727	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		1.2	< 0.300	N/A	N/A
Chloride	SM4500CI-B		96	384	32	256
GRO	TPH 8015M		<100	<10.0	N/A	N/A
DRO	TPH 8015M		9250	<10.0	N/A	N/A

Laboratory Analytical Results Summary Shell State #3

			SIDEWALL											
		Sample ID	1	2	3	4	5	6	7	8	9	10	11	12
Analyte	Method	Date	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17
			mg/kg											
Chloride	SM4500CI-B		<16.0	<16.0	96	<16.0	96	16	32	80	16	96	16	<16.0

		Sample ID	BOTTOM 1	BOTTOM 2	BOTTOM 3	BOTTOM 4	BOTTOM 5	BOTTOM 6
Analyte	Method	Date	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17	12/5/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		64	32	32	48	48	32



September 28, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SHELL STATE #3 CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/22/16 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

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:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H602134-01)

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	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	0.156	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	0.140	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	0.551	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	0.847	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	09/23/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	23900	200	09/23/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	89.6	% 35-147	7						
Surrogate: 1-Chlorooctadecane	852 9	28-171	,						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H602134-02)

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	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
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	09/23/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	83.3 9	% 35-147							
Surrogate: 1-Chlorooctadecane	97.5	28-171							

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Celez 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:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H602134-03)

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	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	0.185	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	0.150	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	0.590	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	0.924	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	09/24/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	22700	200	09/24/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	90.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	830 9	28-171							

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Celez 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:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H602134-04)

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	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
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	09/24/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	85.2	% 35-147							
Surrogate: 1-Chlorooctadecane	107 9	% 28-171							

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Celez 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:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H602134-05)

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	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	0.091	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	0.065	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	0.251	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	0.408	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	09/24/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	8000	200	09/24/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	68.9	% 35-147	7						

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Celez 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:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H602134-06)

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	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.69	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
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	09/24/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	87.1 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	104 %	6 28-171							

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Celez 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:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H602134-07)

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	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/27/2016	ND	432	108	400	0.00	
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	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	80.7 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 %	6 28-171							

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Celez 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:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H602134-08)

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	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/27/2016	ND	432	108	400	0.00	
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	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	14.2	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	74.9	% 35-147							
Surrogate: 1-Chlorooctadecane	95.7	28-171							

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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:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ SURFACE (H602134-09)

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	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	0.144	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	0.075	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	0.330	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	0.586	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	9470	50.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	95.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	442 9	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 1' (H602134-10)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/27/2016	ND	432	108	400	0.00	
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	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	80.0	% 35-147							
Surrogate: 1-Chlorooctadecane	98.8	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ SURFACE (H602134-11)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.141	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	0.086	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	0.355	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	0.582	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	8100	50.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	82.5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	338 9	28-171							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/22/2016	Sampling Date:	09/20/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H602134-12)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
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	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	95.9 9	% 35-147							
Surrogate: 1-Chlorooctadecane	116 %	6 28-171							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ SURFACE (H602134-13)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.096	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/27/2016	ND	432	108	400	0.00	
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	<50.0	50.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	1970	50.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	70.3	% 35-147							
Surrogate: 1-Chlorooctadecane	145 9	6 28-171							

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Received:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 1' (H602134-14)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	09/27/2016	ND	432	108	400	0.00	
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	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	21.9	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	82.5	% 35-147	7						
	101 9	% 28-171							

Sample ID: SP 8 @ 2' (H602134-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	09/27/2016	ND	432	108	400	0.00	

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Received:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 3' (H602134-16)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/27/2016	ND	432	108	400	0.00	

Sample ID: SP 9 @ SURFACE (H602134-17)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.091	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	0.111	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	0.278	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	0.481	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 73.6-14	0						

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	9460	100	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	80.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	376	% 28-171							

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Received:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 9 @ 1' (H602134-18)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/28/2016	ND	416	104	400	0.00	
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	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	80.0	% 35-147	7						

Sample ID: SP 9 @ 2' (H602134-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	09/28/2016	ND	416	104	400	0.00	

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Received:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 9 @ 3' (H602134-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/28/2016	ND	416	104	400	0.00	

Sample ID: SP 10 @ SURFACE (H602134-21)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.095	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	0.116	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	0.314	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	0.525	0.300	09/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID 106 %

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	16.0	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<100	100	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	10800	100	09/24/2016	ND	212	106	200	0.0141	

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

443 %

28-171



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Received:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 10 @ 1' (H602134-22)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/28/2016	ND	416	104	400	0.00	
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	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	12.4	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	86.4	% 35-147	7						
	108 9	% 28-171							

Sample ID: SP 10 @ 2' (H602134-23)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/28/2016	ND	416	104	400	0.00	

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Received:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 10 @ 3' (H602134-24)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/28/2016	ND	416	104	400	0.00	

Sample ID: SP 11 @ SURFACE (H602134-25)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.187	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	0.238	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	0.848	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	1.27	0.300	09/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID 112 % 73.6-140

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	7630	100	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	87.9	% 35-147							
Surrogate: 1-Chlorooctadecane	289	% 28-171							

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Celeg 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:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 11 @ 1' (H602134-26)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/28/2016	ND	416	104	400	0.00	
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	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	45.2	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	88.2	% 35-147	7						
	103 9	28-171							

Sample ID: SP 11 @ 2' (H602134-27)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/28/2016	ND	416	104	400	0.00	

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Celeg 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:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 11 @ 3' (H602134-28)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2016	ND	416	104	400	0.00	

Sample ID: SP 12 @ SURFACE (H602134-29)

Result								A-01	
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272		
0.259	0.050	09/27/2016	ND	2.34	117	2.00	0.0127		
0.211	0.050	09/27/2016	ND	2.24	112	2.00	0.841		
0.727	0.150	09/27/2016	ND	6.74	112	6.00	0.682		
1.20	0.300	09/27/2016	ND						
	0.259 0.211 0.727	0.2590.0500.2110.0500.7270.150	0.259 0.050 09/27/2016 0.211 0.050 09/27/2016 0.727 0.150 09/27/2016	0.259 0.050 09/27/2016 ND 0.211 0.050 09/27/2016 ND 0.727 0.150 09/27/2016 ND	0.259 0.050 09/27/2016 ND 2.34 0.211 0.050 09/27/2016 ND 2.24 0.727 0.150 09/27/2016 ND 6.74	0.259 0.050 09/27/2016 ND 2.34 117 0.211 0.050 09/27/2016 ND 2.24 112 0.727 0.150 09/27/2016 ND 6.74 112	0.259 0.050 09/27/2016 ND 2.34 117 2.00 0.211 0.050 09/27/2016 ND 2.24 112 2.00 0.727 0.150 09/27/2016 ND 6.74 112 6.00	0.259 0.050 09/27/2016 ND 2.34 117 2.00 0.0127 0.211 0.050 09/27/2016 ND 2.24 112 2.00 0.841 0.727 0.150 09/27/2016 ND 6.74 112 6.00 0.682	

Surrogate: 4-Bromofluorobenzene (PID 114 % 73.6-140

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06, A-01
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	9250	100	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	93.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	361	% 28-171							

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Celeg 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:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 12 @ 1' (H602134-30)

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	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/28/2016	ND	416	104	400	0.00	
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	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	83.7 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 9	% 28-171							

Sample ID: SP 12 @ 2' (H602134-31)

Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2016	ND	416	104	400	0.00	

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Celez 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:	09/22/2016	Sampling Date:	09/21/2016
Reported:	09/28/2016	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 12 @ 3' (H602134-32)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/28/2016	ND	416	104	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
A-01	Sample jar contained headspace. Results may be biased low.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 26 of 29

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Sampler - UPS - Bus - Other:

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

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3.10

Cool Intact Sample Condition

Delivered By: (Circle One)

Time:

Phone #: 575-397-6388

Fax #: State:

575-397-0397

NM

Zip: 88241

Attn: Address:

Company: P.O. #:

BILL TO

ANALYSIS REQUEST

city: Hobbs

Address: P.O. Box 805 Project Manager: Cliff Brunson

Company Name: BBC International, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

SL#

3.10

Sample Condition Cool Intact Yes Yes No No No

EOKED BY

Delivered By: (Circle One)

Time:

Company Name: BBC International, Inc.

Sampler Name:

Ornr los

MATRIX

PRESERV

SAMPLING

roject Location:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP

CONTAINERS GROUNDWATER

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Project Name: Molt

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City: State:

Zip:

Phone #:

Fax #:

Project Owner:

Fax #: 575-397-0397

State: NM Zip: 88241

Attn:

Company:

Address:

P.O. #:

BILL

10

ANALYSIS

REQUES

Project #:

city: Hobbs

^ohone #: 575-397-6388

Project Manager: Cliff Brunson Address: P.O. Box 805

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Received by OCD: 4/4/2023 8:23:21 AM

Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs Stat Phone #: 575-397-6388 Fax # Project #: Project	P.O. #: State: NM Zip: 88241 Company: Fax #: 575-397-0397 Address: Project Owner: OX City: State:	any: ss: Zip:
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Page 28 of 29

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 29 of 29

4 At

Add'l Phone #: Add'l Fax #:

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Page 41 of 76

Company Name: BBC International, Inc.

BILL TO

ANALYSIS REQUES

4RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476



December 14, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SHELL STATE #3 CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/07/17 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

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:	12/07/2017	Sampling Date:	12/05/2017
Reported:	12/14/2017	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SIDE WALL 1 (H703388-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2017	ND	416	104	400	3.77	

Sample ID: SIDE WALL 2 (H703388-02)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2017	ND	416	104	400	3.77	

Sample ID: SIDE WALL 3 (H703388-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/12/2017	ND	416	104	400	3.77	

Sample ID: SIDE WALL 4 (H703388-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2017	ND	416	104	400	3.77	

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Celeg 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:	12/07/2017	Sampling Date:	12/05/2017
Reported:	12/14/2017	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SIDE WALL 5 (H703388-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/12/2017	ND	416	104	400	3.77	

Sample ID: SIDE WALL 6 (H703388-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/12/2017	ND	416	104	400	3.77	

Sample ID: SIDE WALL 7 (H703388-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/12/2017	ND	416	104	400	3.77	

Sample ID: SIDE WALL 8 (H703388-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/12/2017	ND	416	104	400	3.77	

Sample ID: SIDE WALL 9 (H703388-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/12/2017	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celeg 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:	12/07/2017	Sampling Date:	12/05/2017
Reported:	12/14/2017	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SIDE WALL 10 (H703388-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/12/2017	ND	416	104	400	3.77	

Sample ID: SIDE WALL 11 (H703388-11)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/12/2017	ND	416	104	400	3.77	

Sample ID: SIDE WALL 12 (H703388-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2017	ND	432	108	400	0.00	

Sample ID: BOTTOM 1 (H703388-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/12/2017	ND	432	108	400	0.00	

Sample ID: BOTTOM 2 (H703388-14)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/12/2017	ND	432	108	400	0.00	

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*=Accredited Analyte

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Celeg 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:	12/07/2017	Sampling Date:	12/05/2017
Reported:	12/14/2017	Sampling Type:	Soil
Project Name:	SHELL STATE #3 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: BOTTOM 3 (H703388-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/12/2017	ND	432	108	400	0.00	

Sample ID: BOTTOM 4 (H703388-16)

Chloride, SM4500Cl-B	mg	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/12/2017	ND	432	108	400	0.00	

Sample ID: BOTTOM 5 (H703388-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/12/2017	ND	432	108	400	0.00	

Sample ID: BOTTOM 6 (H703388-18)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/12/2017	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 4/5/2023 8:29:14 AM

(505) 393-2326 FAX (505) 393-2476	ANALVEIS REOLIEST
	BILL TO ANALISIS
Cliff Brunson	P.O. #:
3ox 805	Company:
	Attn:
5-397-6388 F	Address:
0	City:
ame: Shull ST +	State: Zip:
Project ocation:	Phone #:
Print the India 2	Fax #:
REVEN FULLING	PRESERV. SAMPLING
Lab I.D. Sample I.D. RAB OR (C)OMP. DUNDWATER STEWATER L JDGE	HER : ID/BASE: E / COOL HER :
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8 Salvala 8 CII V	V 0011 1.00 V
9 Sollwall of 611 1	1 0-F/1 1110 V
PLEASE NOTE: Liability and Darkeges. Cardinal's liability and client's exclusive remedy for any client arising whether based in confu	wher based in contract or fort, shall be limited to the amount paid by the client for the see made in writing and received by Cardinal within 30 days after completion of the applicable
analyses. All claims including those for negligence and any other serves mission of the analyses. All claims including those for negligence and any other stores and the analyses. Including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substantians 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 substantians 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 substantians service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substantians service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substantians of the service. In the service incurred by client, its substantians of the service incurred by client service incurred by client.	
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+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	to 505-393-2476

Page 7 of 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240		
(505) 393-2326 FAX (505) 393-2476	223	ANALYSIS REQUEST
Company Name: BBC International, Inc.	BILLIO	
Project Manager: Cliff Brunson	P.O. #:	
	Company:	
bbs State: NM Zip:	88241 Attn:	
e#: 575-397-6388 F	Address:	
	Y city:	
chall stat	State: Zip:	
V	Phone #:	
Project Location.	Fax #:	
Sampler Name:	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	IL LUDGE THER : CID/BASE: CE / COOL DTHER :	
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analyses. All claims including trose for negigience and any owner work including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, 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, 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, service. In no event shall Cardinal be liable for incidental or consequences of the constraints the cardinal metadoless of whether such claim is based upon any of the above stated reasons or otherwise.	-	
Affiliates or successors arising out of or related to the performance of services interducer or caramas, were Relinquished By:		Yes I No Add'I Fax#:
Circle Dine / / ////////////////////////////////	By: Cool Intact Cool Intact Cool Intact Cool Intact Checked BY: Cool Intact (Initialst Checked BY: Cool Intact	
Sampler - UPS - Bus - Outlet (Orth Latit 4.0		
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	itten changes to 505-393-2476	

Page 8 of 8

From:	Yu, Olivia, EMNRD
To:	Casey_Summers@oxy.com; Groves, Amber
Cc:	<u>cbrunson@bbcinternational.com;</u> <u>kswinney@bbcinternational.com;</u> <u>kathy@bbcinternational.com;</u> j <u>oilkey@bbcinternational.com;</u> Jennifer_Hudgens@oxy.com
Subject:	RE: OXY - Shell State #3 CTB - Remediation Plan
Date:	Friday, June 2, 2017 4:04:32 PM

Dear Casey:

NMOCD will approve the delineation/remediation plan for 1RP-4440 with these modifications.

- 1. Excavate SP1, SP2, SP3, SP6, SP7, SP10, SP11, SP12 to 1 ft. bgs. Submit laboratory analyses of bottom and sidewall confirmation samples.
- 2. Scrape surface 6 inches at SP4 & SP5 is fine.
- 3. Excavate SP8 and SP9 to 2.5 ft. bgs. Submit laboratory analyses of bottom and sidewall confirmation samples.
- 4. Like approval from SLO required, along with any revegetation plan requirements for affected area off location.
- 5. Provide photographic documentation of corrective actions in the closure report.

Please confirm or contact me with concerns.

Thanks,

Olivia

From: Casey_Summers@oxy.com [mailto:Casey_Summers@oxy.com]
Sent: Thursday, May 11, 2017 3:07 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: cbrunson@bbcinternational.com; kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com; Jennifer_Hudgens@oxy.com
Subject: FW: OXY - Shell State #3 CTB - Remediation Plan

Olivia,

This is the other one I was going to try and send you yesterday. Can you take a look at the attached and below? This is another plan that got lost in the mix of NMOCD personnel changes. Delineation does not meet the COA but that is because it was completed in September of last year. BLM approved of the plan in December so we are good to go there.

Thank you for your time and consideration.

Casey Summers O: (575)-628-4152 C: (575)-513-8289

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Tuesday, November 01, 2016 12:19 PM

To: Kristen Lynch <<u>Kristen.Lynch@state.nm.us</u>>

Cc: Casey Summers <<u>Casey_Summers@oxy.com</u>>; <u>jennifer_duarte@oxy.com</u>; Ken Swinney <<u>kswinney@bbcinternational.com</u>>; Jennifer Gilkey <<u>jgilkey@bbcinternational.com</u>>; Kathy Purvis <<u>kathy@bbcinternational.com</u>>

Subject: OXY - Shell State #3 CTB - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Shell State #3 CTB release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com



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From:	Groves, Amber
To:	Cliff Brunson; Casey_Summers@oxy.com; Olivia.Yu@state.nm.us
Cc:	kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com;
	Jennifer Smith@oxy.com
Subject:	RE: OXY - Shell State #3 CTB - Remediation Plan
Date:	Tuesday, June 20, 2017 10:15:42 AM
Attachments:	image003.png
	image001.png
	image002.png
	image004.png

Cliff,

Your revegetation plan is approved.

Thank you,

Amber Groves

Remediation Specialist Field Operations Division (575)392-3697 (575)263-3209 cell New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88260

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From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Monday, June 12, 2017 3:04 PM

To: Groves, Amber <agroves@slo.state.nm.us>; Casey_Summers@oxy.com; Olivia.Yu@state.nm.us **Cc:** kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com; Jennifer_Smith@oxy.com

Subject: RE: OXY - Shell State #3 CTB - Remediation Plan

Amber,

I have attached a revised remediation plan that has an updated revegetation plan that I believe addresses your concern. Please advise.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com



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From: Groves, Amber [mailto:agroves@slo.state.nm.us]
Sent: Monday, June 12, 2017 7:21 AM
To: Cliff Brunson < cbrunson@bbcinternational.com >; Casey_Summers@oxy.com;
Olivia.Yu@state.nm.us
Cc: kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com;
Jennifer_Smith@oxy.com
Subject: RE: OXY - Shell State #3 CTB - Remediation Plan

Cliff,

NMSLO requests that your seed mixture contain at least one forb.

Thank you,

Amber Groves

Remediation Specialist Field Operations Division (575)392-3697 (575)263-3209 cell New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88260

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From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Saturday, June 10, 2017 5:14 PM
To: Groves, Amber <a groves@slo.state.nm.us>; Casey_Summers@oxy.com; Olivia.Yu@state.nm.us
Cc: kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com;
Jennifer_Smith@oxy.com

Subject: RE: OXY - Shell State #3 CTB - Remediation Plan

Amber,

The revegetation plan had been added to the attached remediation packet that was submitted and approved with modifications from the NMOCD. It is page 3 of the attached document. I hope this meets your expectations.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com



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From: Groves, Amber [mailto:agroves@slo.state.nm.us]
Sent: Monday, June 5, 2017 4:07 PM
To: <u>Casey_Summers@oxy.com</u>; <u>Olivia.Yu@state.nm.us</u>
Cc: <u>cbrunson@bbcinternational.com</u>; <u>kswinney@bbcinternational.com</u>; <u>kathy@bbcinternational.com</u>; jgilkey@bbcinternational.com; Jennifer_Smith@oxy.com
Subject: RE: OXY - Shell State #3 CTB - Remediation Plan

Casey,

The revegetation plan should be included the original remediation document that was submitted to NMOCD. Once that is included and re-submitted, I will issue approval.

Thank you,

Amber Groves

.....

Remediation Specialist Field Operations Division (575)392-3697 (575)263-3209 cell New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88260

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From: Casey_Summers@oxy.com [mailto:Casey_Summers@oxy.com]
Sent: Monday, June 05, 2017 11:23 AM
To: Olivia.Yu@state.nm.us; Groves, Amber agroves@slo.state.nm.us
Cc: cbrunson@bbcinternational.com; kswinney@bbcinternational.com;
kathy@bbcinternational.com; jgilkey@bbcinternational.com; Jennifer_Smith@oxy.com
Subject: RE: OXY - Shell State #3 CTB - Remediation Plan

Amber, Do you agree with the below?

BBC,

Will you please submit a reveg plan to SLO on the off location to the east side of the release?

Casey Summers O: (575)-628-4152 C: (575)-513-8289

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Friday, June 02, 2017 4:02 PM
To: Summers, Casey L <<u>Casey_Summers@oxy.com</u>>; Groves, Amber <<u>agroves@slo.state.nm.us</u>>
Cc: cbrunson@bbcinternational.com; kswinney@bbcinternational.com;
kathy@bbcinternational.com; jgilkey@bbcinternational.com; Smith, Jennifer A
<<u>Jennifer_Smith@oxy.com</u>>
Subject: [EXTERNAL] RE: OXY - Shell State #3 CTB - Remediation Plan

Dear Casey:

NMOCD will approve the delineation/remediation plan for 1RP-4440 with these modifications.

- 1. Excavate SP1, SP2, SP3, SP6, SP7, SP10, SP11, SP12 to 1 ft. bgs. Submit laboratory analyses of bottom and sidewall confirmation samples.
- 2. Scrape surface 6 inches at SP4 & SP5 is fine.
- 3. Excavate SP8 and SP9 to 2.5 ft. bgs. Submit laboratory analyses of bottom and sidewall confirmation samples.
- 4. Like approval from SLO required, along with any revegetation plan requirements for affected area off location.
- 5. Provide photographic documentation of corrective actions in the closure report.

Please confirm or contact me with concerns.

Thanks,

Olivia

From: Casey_Summers@oxy.com [mailto:Casey_Summers@oxy.com]
Sent: Thursday, May 11, 2017 3:07 PM
To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>
Cc: cbrunson@bbcinternational.com; kswinney@bbcinternational.com;
kathy@bbcinternational.com; jgilkey@bbcinternational.com; Jennifer_Hudgens@oxy.com
Subject: FW: OXY - Shell State #3 CTB - Remediation Plan

Olivia,

This is the other one I was going to try and send you yesterday. Can you take a look at the attached and below? This is another plan that got lost in the mix of NMOCD personnel changes. Delineation does not meet the COA but that is because it was completed in September of last year. BLM approved of the plan in December so we are good to go there.

Thank you for your time and consideration.

Casey Summers O: (575)-628-4152 C: (575)-513-8289

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Tuesday, November 01, 2016 12:19 PM
To: Kristen Lynch <<u>Kristen.Lynch@state.nm.us</u>>
Cc: Casey Summers <<u>Casey_Summers@oxy.com</u>>; jennifer_duarte@oxy.com; Ken Swinney
<<u>kswinney@bbcinternational.com</u>>; Jennifer Gilkey <<u>jgilkey@bbcinternational.com</u>>; Kathy
Purvis <<u>kathy@bbcinternational.com</u>>
Subject: OXY - Shell State #3 CTB - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Shell State #3 CTB release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com



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From:	Cliff Brunson
То:	"Groves, Amber"; Casey_Summers@oxy.com; Olivia.Yu@state.nm.us
Cc:	kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com;
	Jennifer Smith@oxy.com
Subject:	RE: OXY - Shell State #3 CTB - Remediation Plan
Date:	Monday, June 12, 2017 3:03:45 PM
Attachments:	image005.png
	image001.png
	image002.png
	Remediation Packet, Shell State #3 CTB.pdf

Amber,

I have attached a revised remediation plan that has an updated revegetation plan that I believe addresses your concern. Please advise.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com



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From: Groves, Amber [mailto:agroves@slo.state.nm.us]

Sent: Monday, June 12, 2017 7:21 AM

To: Cliff Brunson <cbrunson@bbcinternational.com>; Casey_Summers@oxy.com;

Olivia.Yu@state.nm.us

Cc: kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com; Jennifer_Smith@oxy.com

Subject: RE: OXY - Shell State #3 CTB - Remediation Plan

Cliff,

NMSLO requests that your seed mixture contain at least one forb.

Thank you,

Amber Groves

Remediation Specialist Field Operations Division (575)392-3697 (575)263-3209 cell New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88260

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From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Saturday, June 10, 2017 5:14 PM
To: Groves, Amber <agroves@slo.state.nm.us>; Casey_Summers@oxy.com; Olivia.Yu@state.nm.us
Cc: kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com; Jennifer_Smith@oxy.com
Subject: RE: OXY - Shell State #3 CTB - Remediation Plan

Amber,

The revegetation plan had been added to the attached remediation packet that was submitted and approved with modifications from the NMOCD. It is page 3 of the attached document. I hope this meets your expectations.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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From: Groves, Amber [mailto:agroves@slo.state.nm.us]
Sent: Monday, June 5, 2017 4:07 PM
To: <u>Casey_Summers@oxy.com</u>; <u>Olivia.Yu@state.nm.us</u>
Cc: <u>cbrunson@bbcinternational.com</u>; <u>kswinney@bbcinternational.com</u>; <u>kathy@bbcinternational.com</u>; jgilkey@bbcinternational.com; Jennifer_Smith@oxy.com
Subject: RE: OXY - Shell State #3 CTB - Remediation Plan

Casey,

The revegetation plan should be included the original remediation document that was submitted to NMOCD. Once that is included and re-submitted, I will issue approval.

Thank you,

Amber Groves

Remediation Specialist Field Operations Division (575)392-3697 (575)263-3209 cell New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88260

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From: Casey_Summers@oxy.com [mailto:Casey_Summers@oxy.com]
Sent: Monday, June 05, 2017 11:23 AM
To: Olivia.Yu@state.nm.us; Groves, Amber agroves@slo.state.nm.us
Cc: obrunson@bbcinternational.com; kswinney@bbcinternational.com;
kathy@bbcinternational.com; jgilkey@bbcinternational.com; Jennifer_Smith@oxy.com
Subject: RE: OXY - Shell State #3 CTB - Remediation Plan

Amber,

Do you agree with the below?

BBC,

Will you please submit a reveg plan to SLO on the off location to the east side of the release?

Casey Summers O: (575)-628-4152 C: (575)-513-8289

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Friday, June 02, 2017 4:02 PM
To: Summers, Casey L <<u>Casey_Summers@oxy.com</u>>; Groves, Amber <<u>agroves@slo.state.nm.us</u>>
Cc: cbrunson@bbcinternational.com; kswinney@bbcinternational.com;
kathy@bbcinternational.com; jgilkey@bbcinternational.com; Smith, Jennifer A
<Jennifer_Smith@oxy.com>
Subject: [EXTERNAL] RE: OXY - Shell State #3 CTB - Remediation Plan

Dear Casey:

NMOCD will approve the delineation/remediation plan for 1RP-4440 with these modifications.

- 1. Excavate SP1, SP2, SP3, SP6, SP7, SP10, SP11, SP12 to 1 ft. bgs. Submit laboratory analyses of bottom and sidewall confirmation samples.
- 2. Scrape surface 6 inches at SP4 & SP5 is fine.
- 3. Excavate SP8 and SP9 to 2.5 ft. bgs. Submit laboratory analyses of bottom and sidewall confirmation samples.
- 4. Like approval from SLO required, along with any revegetation plan requirements for affected area off location.
- 5. Provide photographic documentation of corrective actions in the closure report.

Please confirm or contact me with concerns.

Thanks, Olivia

From: <u>Casey_Summers@oxy.com</u> [mailto:Casey_Summers@oxy.com] Sent: Thursday, May 11, 2017 3:07 PM To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>
 Cc: <u>cbrunson@bbcinternational.com</u>; <u>kswinney@bbcinternational.com</u>; <u>kathy@bbcinternational.com</u>; <u>jgilkey@bbcinternational.com</u>; <u>Jennifer_Hudgens@oxy.com</u>
 Subject: FW: OXY - Shell State #3 CTB - Remediation Plan

Olivia,

This is the other one I was going to try and send you yesterday. Can you take a look at the attached and below? This is another plan that got lost in the mix of NMOCD personnel changes. Delineation does not meet the COA but that is because it was completed in September of last year. BLM approved of the plan in December so we are good to go there.

Thank you for your time and consideration.

Casey Summers O: (575)-628-4152 C: (575)-513-8289

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Tuesday, November 01, 2016 12:19 PM
To: Kristen Lynch <<u>Kristen.Lynch@state.nm.us</u>>
Cc: Casey Summers <<u>Casey_Summers@oxy.com</u>>; jennifer_duarte@oxy.com; Ken Swinney
<<u>kswinney@bbcinternational.com</u>>; Jennifer Gilkey <<u>jgilkey@bbcinternational.com</u>>; Kathy
Purvis <<u>kathy@bbcinternational.com</u>>
Subject: OXY - Shell State #3 CTB - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Shell State #3 CTB release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: <u>cbrunson@bbcinternational.com</u>



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New Mexico State Land Office Revegetation and Noxious Weed Management Plan

OXY – SHELL STATE #3 CTB

Revegetation Plan

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season, the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be spread by either using a hand-held broadcaster or tractor-mounted broadcaster and the area will be raked or dragged to cover the seed. Since the seed will be broadcast, the pounds per acre will be double over the amount used by drill planting.

The seed mixture will be the appropriate mixture for the specific site and planted in the required amounts of pounds pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered and will not contain primary or secondary noxious weeds.

Gramma grass – 40% - 1.5 lbs. PLS Buffalo grass – 40% - 1.5 lbs. PLS Side oats – 10% - 0.5% lbs. PLS Four wing Salt bush – 10% - 1.5 lbs. PLS

Noxious Weed Management Plan

The site will be visited to assess the establishment of vegetative growth. Personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the NMSLO will be contacted to determine the most effective manner to eradicate it.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
OXY USA INC	96694
P.O. Box 27570	Action Number:
Houston, TX 772277570	203804
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By		Condition Date
bhall	None	4/5/2023

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Action 203804