Closure Report



Site Description									
Site Name:	State II-23 Battery								
Company:	Oxy Permian Ltd.								
Legal Description:	U/L D, Section 23, T10S, R32E								
County:	Lea County, NM								
GPS Coordinates:	N 33.43878° W 103.64761°								

	Release Data
Date of Release:	02/02/2016
Type of Release:	Produced water
Source of Release:	Stress/fatigue of 6" fiberglass water transfer SWD
Volume of Release:	35 bbls
Volume Recovered:	30 bbls

Remediation Specifications								
Remediation Parameters:	Excavate the area around the orphan line to a depth of 2' or as practicable. Place a 20 mil liner in the excavation and backfill with clean soil. Add straw to the top soil to assist in erosion control.							
Remediation Activities:	May 2016							

Plan Sent to OCD:	04/06/2016	Email from Cliff Brunson to Jamie Keyes
OCD Approval of Plan:	04/07/2016	Email from Jamie Keyes to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

	Supporting Documentation
Initial C-141	Signed 02/10/2016
Final C-141	Signed 05/19/2016
Site Diagram	February 2016
Groundwater Plot	<50'
TOPO Maps	February 2016
Lab Summary	02/05/2016, 02/17/2016-02/19/2016, & 02/15/2016-02/16/2016
Lab Analysis	02/05/2016, 02/17/2016-02/19/2016, & 02/15/2016-02/16/2016
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.

05/24/2016

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

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

Form C-141

Revised August 8, 2011

			Rele	ease Notific	ation	and Co	rrective A	ction				
						OPERA T	ΓOR		Initia	l Report		Final Report
Name of Co		Oxy Permiai				Contact Casey Summers						
Address 6		ive, Midland II-23 Batter		05		Telephone No. (575) 513-8289						
			у			Facility Type Battery						
Surface Ow	ner State	e		Mineral C)wner			A	API No.	30-25-2	0501	
				LOCA		OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West	t Line	County		
D	23	10S	32E							Lea Count	ty, NM	
	Latitude N 33.43878° Longitude W 103.64761°											
Type of Relea	nca Pendi	iced water	_	NAT	'URE	OF REL		1.77	. t D		20111	
			" fibergla	ss water transfer S	SWD		Release 35 bbls lour of Occurrence			ecovered Hour of Dis		<u></u>
line						02/02/2016						
Was Immedia	ite Notice C		Yes	No Not Re	equired	If YES, To Kellie Jone	· Whom? es, Jamie Keyes- N	NMOCD				
By Whom?	Kathy Pur	vis @ BBC Ir	nternation	al, Inc.		Date and H	lour 02/03/2016	6 @ 3:46 pi	m			
Was a Watero	ourse Reac		Yes 🗵	l No		If YES, Vo	olume Impacting t	he Waterco	ourse.			
If a Watercou	T											
ii a watercou	rse was mi	pacted, Desch	ibe Fully.	•								
						_						
Describe Cau	se of Proble	em and Remed	dial Action	n Taken.*								
Stress/fatigue and the line w			transfer S	WD line caused a	spill of 3	35 bbls of pro	oduced water. A	vacuum tru	ck recov	ered 30 bbl	ls of pro	duced water
Describe Area	Affected a	and Cleanup A	Action Tak	en.*								
The affected	area is anns	ovimately 15/)' v 40' h	the right of year	Damad	iation will be	e completed in acc	aardanaa wii	ith tha wa	umadiation	=10= 0=	anarrad hrv
NMOCD.	иса із аррі	oxillatory 150) X 40 U	the right of way.	Kemed	iation will be	e completed in acc	tordance wi	iui uie re	emediation	ріан ар	proved by
regulations al public health should their o	l operators or the envir perations h iment In a	are required to onment. The ave failed to a ddition, NMO	o report ar acceptand adequately OCD accep	nd/or file certain r ce of a C-141 report investigate and r	elease no ort by the emediate	otifications as NMOCD m contaminati	knowledge and und perform correct arked as "Final R on that pose a three the operator of the correct arked as "Final R".	ctive actions eport" does eat to grour	s for rele not reli- nd water	eases which eve the ope , surface w	may en erator of ater, hu	idanger Tliability man health
	OIL CONSERVATION DIVISION											
Signature:	1 poly											
Printed Name Casey Summers Approved by Environmental Specialist:												
Title: NM I	Environmes	ntal Advisor_			/	Approval Dat	te:	Exp	oiration I	Date:		
E-mail Addre	ss: <u>Case</u> y	Summers@	oxy.com	_	(Conditions of	f Approval:			Attached	1 🗆	
Date: 2	onal Shee	ets If Necess	Phone:	(575) 513-82	289		-		30			45.10

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

* Attach Additional Sheets If Necessary

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

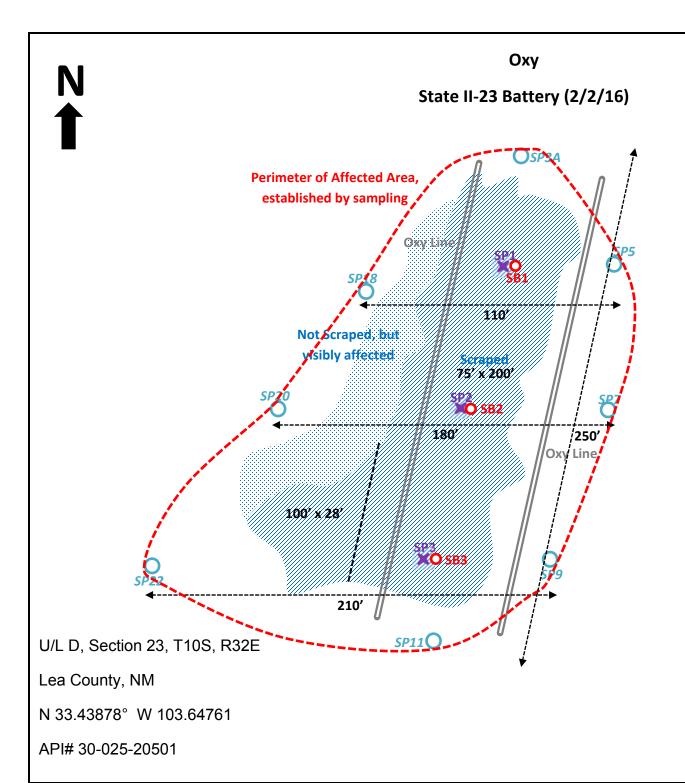
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Form C-141

Revised August 8, 2011

Release Notification and Corrective Action												
						OPERA1	OR] Initia	l Report	\boxtimes	Final Report
Name of Co		Oxy Permia				Contact Casey Summers						
		ive, Midland		205		Telephone N		8289				
Facility Nan	ne State	II-23 Batter	У		I	acility Typ	e Battery					
Surface Own	ner State	e		Mineral C)wner				API No	. 30-25-20	0501	
				A STREET OF THE PARTY OF THE PA		OF REI	LEASE	192				
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/We	st Line	County		
D	23	108	32E							Lea Count	y, NM	
				Latitude <u>N 33.4</u>	3878°	Longitue	de W 103.6476	10				
			•	100000	100-100-00	-		-				
Type of Relea	nea Deodi	iced water		NAI	UKE	OF RELI	Release 35 bbls	13	Johanna E	tecovered	30 hhl	
			" fibergla	ss water transfer S	SWD		our of Occurrence			Hour of Disc		,
line						02/02/2016						
Was Immedia	ite Notice C		Yes [No Not Re	equired	If YES, To Kellie Jone	Whom? s, Jamie Keyes- !	NMOCD				
By Whom?	Kathy Pur	vis @ BBC Ir	nternationa	al, Inc.		Date and H	our 02/03/2016	6 @ 3:46 p	pm			
Was a Watero	course Reac		5	1		If YES, Vo	lume Impacting t	he Waterc	ourse.			
			Yes 🗵	=								
If a Watercou	irse was Im	pacted, Descr	ibe Fully.									
Describe Cau	se of Proble	em and Reme	dial Action	n Taken.*								
Stress/fatigue and the line w			transfer S	WD line caused a	spill of 3	35 bbls of pro	duced water. A	vacuum tru	uck recov	ered 30 bbl:	s of pro	duced water
and the fine w	vas repaireu	l .										
Describe Area	a Affected a	and Cleanup A	Action Tak	en.*								
The affected of	area ic annr	ovimataly 156)' v 40' hv	the right of way.	Damadi	iation was co	mplatad in nacor	danca with	tha rom	adiation plan	anneo	ued by
Jamie Keyes					Remed	ianon was co	inpicica in accord	Bance with	i the renn	ediation piai	1 appro	ved by
				is true and comp								
				e of a C-141 repo								
should their o	perations h	ave failed to a	idequately	investigate and r	emediate	contaminati	on that pose a thr	eat to grou	ınd water	, surface wa	ter, hui	man health
				tance of a C-141	report do	es not reliev	e the operator of	responsibi	lity for c	ompliance w	ith any	other
rederal, state.	federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION											
Signature: Approved by Environmental Specialist: Janually												
Printed Name: Casey Summers Approved by Environmental Specialist:												
							05/24/2016			///		
Title: NM	Environmer	ntal Advisor			- F	Approval Dat	e:	Ex	piration 1	Date:		
E-mail Addre	ss: <u>Case</u>	y_Summers@	oxy.com		(Conditions of	Approval;			Attented		
5. 4	5-19	-11	en.	(575) 512 33	,,,,		///			Attached 1RP 4179		
Date:	١٩١ - د	1 1/2	Phone:	(575) 513-82	ן עאי					1 11/7		



BBC International, Inc.						
Оху						
State II-2	23 Battery					
Date: 02/10/2016 DRWG by: K. Purvis						
NOT TO SCALE File: Oxy 2016						

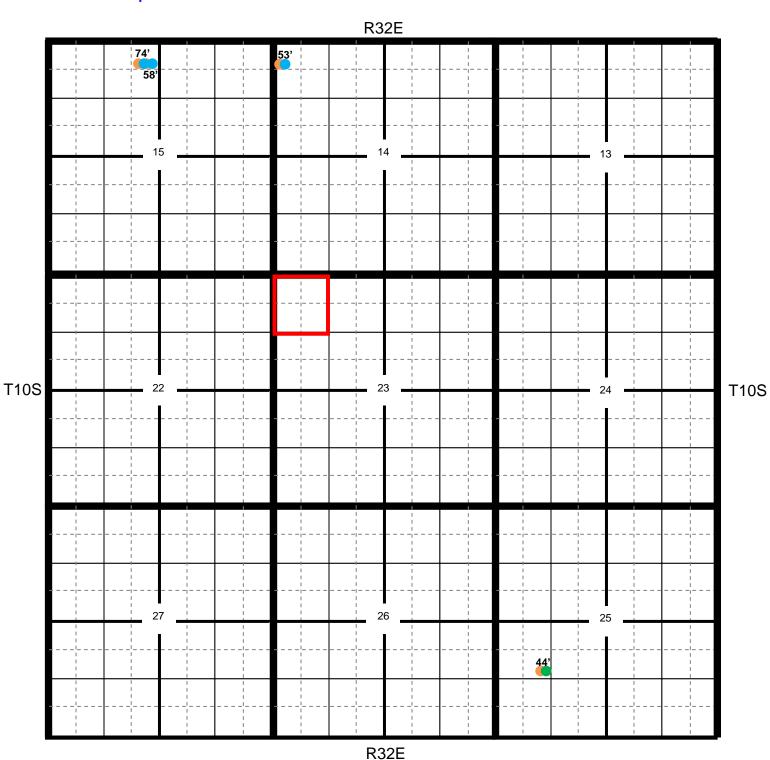


Groundwater Plot

Oxy State II-23 Battery

CountyUnit LetterSectionTownshipRangeLeaD2310S32E

Trend Map <50'



Location

OCD

USGS

SEO

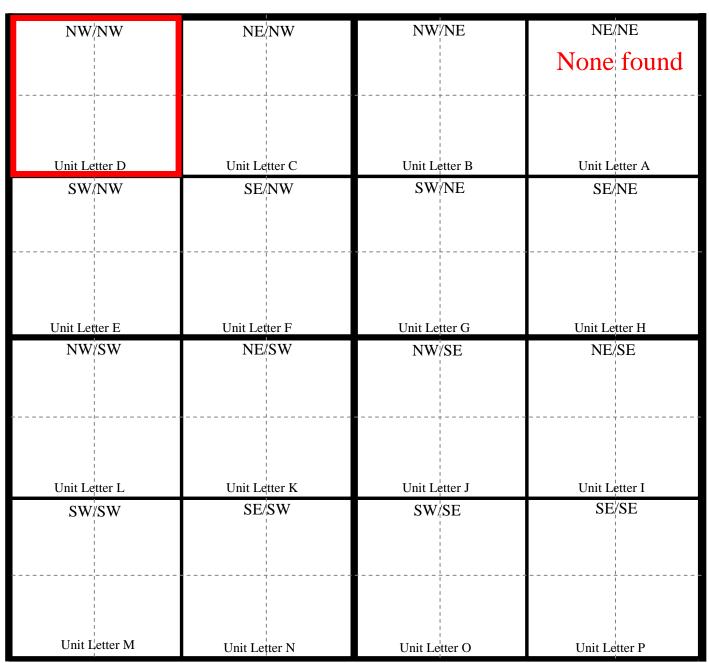
All Databases

Oxy State II-23 Battery

CountyUnit LetterSectionTownshipRangeLeaD2310S32E

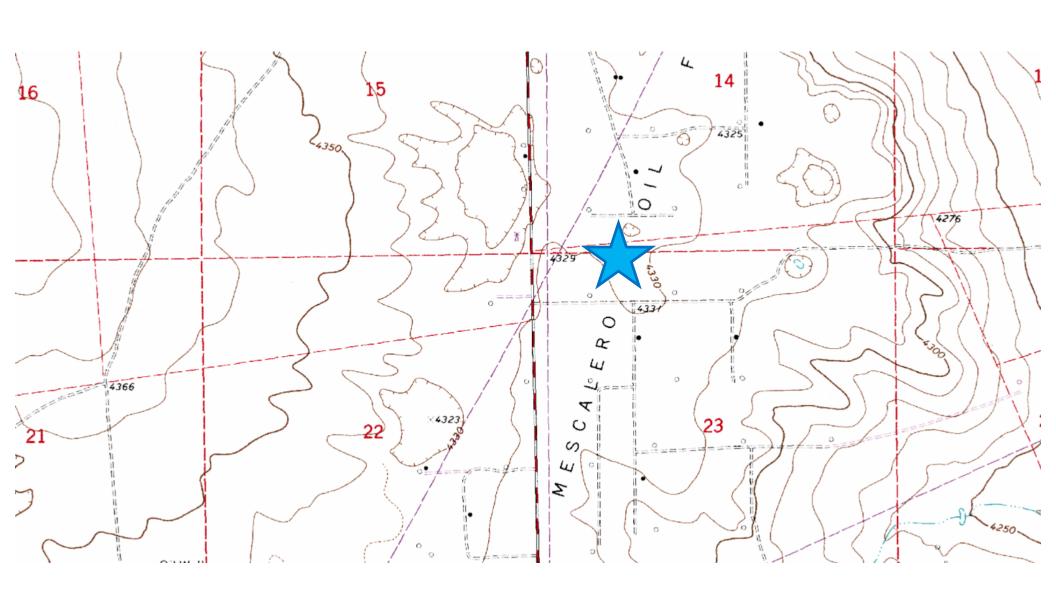
Trend Map <50'

1

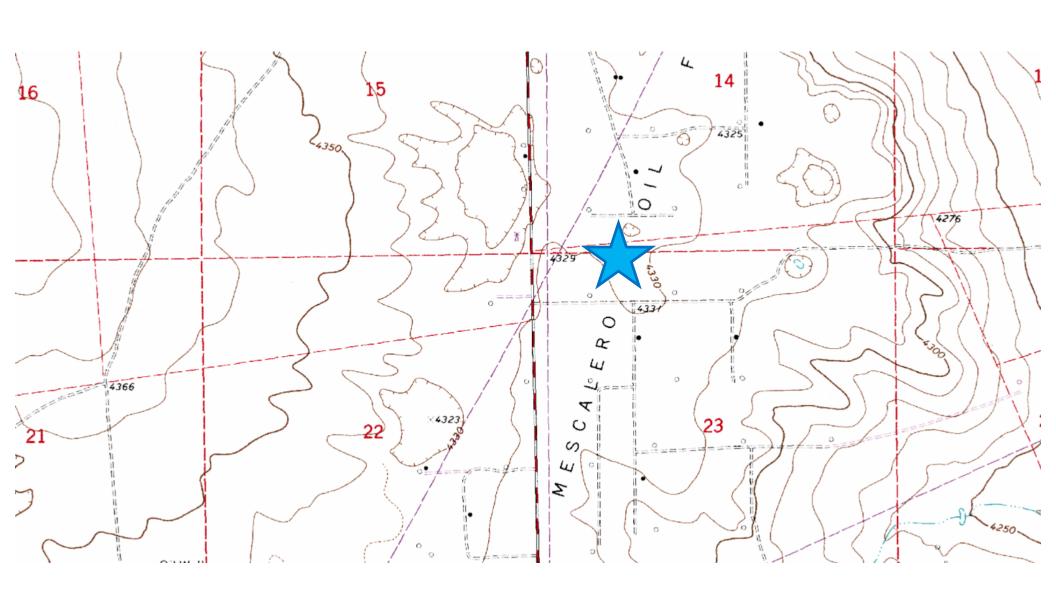


3

Oxy
State II-23 Battery



Oxy
State II-23 Battery



Laboratory Analytical Results Summary State II-23 Battery

		Sample	SB1 @ 5'	SB1 @ 6'	SB1 @ 7'
Analyte	Method	Date	2/15/16	2/15/16	2/15/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		464	144	112

		Sample	SB2 @ 5'	SB2 @ 8'	SB2 @ 11'	SB2 @ 15'	SB2 @ 18'	SB2 @ 20'	SB2 @ 25'	SB2 @ 27'	SB2 @ 28'
Analyte	Method	Date	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		11000	16600	17600	18400	10800	6400	912	160	32

		Sample	SB3 @ 5'	SB3 @ 8'	SB3 @ 11'	SB3 @ 15'	SB3 @ 18'	SB3 @ 20'	SB3 @ 21'
Analyte	Method	Date	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		22000	6260	13000	1840	256	48	192

Laboratory Analytical Results Summary State II-23 Battery

		Sample	SP3A @ SURFACE	SP3A @ 1'	SP3A @ 2.5'	SP3A @ 3'
Analyte	Method	Date	2/17/16	2/17/16	2/17/16	2/17/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		58400	3360	112	1010

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	2/17/16	2/17/16	2/17/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		112	<16.0	176

		Sample	SP7 @ SURFACE	SP7 @ 1'
Analyte	Method	Date	2/17/16	2/17/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		80	<16.0

		Sample	SP9 @ SURFACE	SP9 @ 2'
Analyte	Method	Date	2/18/16	2/18/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		272	128

		Sample	SP11 @ SURFACE	SP11 @ 2'	SP11 @ 2.5'
Analyte	Method	Date	2/18/16	2/18/16	2/18/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		896	384	160

		Sample	SP12 @ SURFACE	SP12 @ 2'	SP12 @ 2.5'
Analyte	Method	Date	2/18/16	2/18/16	2/18/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		32000	144	160

		Sample	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 2'
Analyte	Method	Date	2/18/16	2/18/16	2/18/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		80	1230	128

		Sample	SP18 @ SURFACE	SP18 @ 1'
Analyte	Method	Date	2/19/16	2/19/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		80	48

		Sample	SP20 @ SURFACE	SP20 @ 1'
Analyte	Method	Date	2/19/16	2/19/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		32	<16.0

		Sample	SP22 @ SURFACE	SP22 @ 1'
Analyte	Method	Date	2/19/16	2/19/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		192	80

Laboratory Analytical Results Summary State II-23 Battery

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	2/5/16	2/5/16	2/5/16	2/5/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.05	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	< 0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		86000	39600	20400	20400
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	2/5/16	2/5/16	2/5/16	2/5/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.07	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		0.07	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		0.051	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		122000	22400	21600	13500
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	2/5/16	2/5/16	2/5/16	2/5/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	0.114	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	0.093	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		< 0.150	<0.150	< 0.150	< 0.150
Total BTEX	BTEX 8021B		98600	30400	12500	4400
Chloride	SM4500CI-B		<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



February 23, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE II-23 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/16 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/17/2016 Sampling Date: 02/15/2016

Reported: 02/23/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 1 @ 5' (H600377-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/22/2016	ND	448	112	400	11.3	
Sample ID: SP 1 @ 6' (H6	500377-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/22/2016	ND	448	112	400	11.3	
Sample ID: SP 1 @ 7' (H6	500377-03)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/22/2016	ND	448	112	400	11.3	
Sample ID: SP 2 @ 5' (H6	500377-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories *=Accredited Analyte

ND

448

112

400

11.3

02/22/2016

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

Celey D. Keine

11000

16.0

Chloride



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/17/2016 Sampling Date: 02/15/2016

Reported: 02/23/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 2 @ 8' (H600377-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16600	16.0	02/22/2016	ND	448	112	400	11.3	
Sample ID: SP 2 @ 11' (H	600377-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	02/22/2016	ND	448	112	400	11.3	
Sample ID: SP 2 @ 15' (H	600377-07)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	02/22/2016	ND	448	112	400	11.3	
Sample ID: SP 2 @ 18' (H	600377-08)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	02/22/2016	ND	448	112	400	11.3	
Sample ID: SP 2 @ 20' (H	600377-09)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	02/22/2016	ND	448	112	400	11.3	

Cardinal Laboratories *=Accredited Analyte

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



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/17/2016 Sampling Date: 02/15/2016

Reported: 02/23/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 2 @ 25' (H600377-10)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	02/22/2016	ND	448	112	400	11.3	
Sample ID: SP 2 @ 27' (H	600377-11) ma	/ka	Analyze	ed Bv: AP					

emoriac, sirrisocci s	9/	119	Analyze	2 D y : A :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/22/2016	ND	448	112	400	11.3	

Sample ID: SP 2 @ 28' (H600377-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2016	ND	448	112	400	11.3	

Sample ID: SP 3 @ 5' (H600377-13)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	02/22/2016	ND	416	104	400	0.00	

Sample ID: SP 3 @ 8' (H600377-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	02/22/2016	ND	416	104	400	0.00	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/17/2016 Sampling Date: 02/16/2016

Reported: 02/23/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 3 @ 11' (H600377-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	02/22/2016	ND	416	104	400	0.00	
Sample ID: SP 3 @ 15' (F	1600377-16)								
Sample ID: SP 3 @ 15' (I	1600377-16) mg,	/kg	Analyze	d By: AP					
•	-	/kg Reporting Limit	Analyze Analyzed	d By: AP Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SP 3 @ 18' (H600377-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/22/2016	ND	416	104	400	0.00	

Sample ID: SP 3 @ 20' (H600377-18)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/22/2016	ND	416	104	400	0.00	

Sample ID: SP 3 @ 21' (H600377-19)

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	02/22/2016	ND	416	104	400	0.00	

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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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Celeg D. Freene

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476		
Company Name: BBC International, Inc.	81.FF 129	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company:	
City: Hobbs State: NM Zin: 88241	A#m:	

NM Zip: 88241
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State: NM Zip: 88241
Fav #: 575_397_0397
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Project Location: Phone #:
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2 SB2 Q20' 6 1 1 1 1 2 MB 300 /
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 7 of 8

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

			445	Yes Yes			Sampler - UPS - Bus - Other:	Sampler - UPS
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		y client, its subsidiaries reasons or otherwise.	f use, or loss of profits incurred by eduction any of the above stated r	of whether such claim is based.	without limitation, the cardinal regardless	consequental damages, including without limitation, business interruptions, nance of services hereunder by Cardinal, repardless of whether such daim	ervice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, enterpressors arising out of or related to the performance of services hereunder by Cardinal repartiess of whether such claim is baseduagen any of the above stated reasons or otherwise.	service. In no event shall
	s spplicable	aid by the client for the ler completion of the a	t, shall be limited to the amount p wed by Cardinal within 30 days at	ether based in contract or tor ess made in writing and recei	any claim arising who deemed waived unly	nd client's exclusive remedy for a other cause whatsoever shall be	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for neoligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	PLEASE NOTE: Liability
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			y:	City:	SSO ::	Project Owner:		Project #:
			Address:		575-397-0397	Fax #: 575	575-397-6388	Phone #: 575
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			Company:	၀၁			. Box 805	Address: P.O. Box 805
			0.#	P.O.			r: Cliff Brunson	Project Manager:
ANALYSIS REQUEST			8114 70			onal, Inc.	BBC International, Inc.	Company Name:
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 8 of 8



February 24, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE II-23 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/22/16 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/22/2016 Sampling Date: 02/17/2016

Reported: 02/24/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 3A @ SURFACE (H600402-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	58400	16.0	02/23/2016	ND	416	104	400	0.00	
Sample ID: SP 3A @ 1' (F	1600402-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	02/23/2016	ND	416	104	400	0.00	
Sample ID: SP 3A @ 2.5'	(H600402-03)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Pacult	Penorting Limit	Analyzed	Method Blank	RS	% Pecovery	True Value OC	DDD	Oualifier

Cilioride, 31-14-300CI-B	ilig	r kg	Allalyze	u by. Ar					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 3A @ 3' (H600402-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	02/23/2016	ND	416	104	400	0.00	

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Fax To: (575) 397-0397

Received: 02/22/2016 Sampling Date: 02/17/2016

Reported: 02/24/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 5 @ SURFACE (H600402-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 5 @ 1' (H600402-06)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 5 @ 2' (H600402-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 7 @ SURFACE (H600402-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 7 @ 1' (H600402-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/23/2016	ND	416	104	400	0.00	

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Fax To: (575) 397-0397

Received: 02/22/2016 Sampling Date: 02/18/2016

Reported: 02/24/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 9 @ SURFACE (H600402-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 9 @ 2' (H600402-11)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 11 @ SURFACE (H600402-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 11 @ 2' (H600402-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 11 @ 2.5' (H600402-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/23/2016	ND	416	104	400	0.00	

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/22/2016 Sampling Date: 02/18/2016

Reported: 02/24/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 12 @ SURFACE (H600402-15)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 12 @ 2' (H600402-16)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 12 @ 2.5' (H600402-17)

Chloride, SM4500Cl-B	OCI-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 13 @ SURFACE (H600402-18)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/23/2016	ND	416	104	400	0.00	

Sample ID: SP 13 @ 1' (H600402-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	02/23/2016	ND	448	112	400	3.64	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/22/2016 Sampling Date: 02/18/2016

Reported: 02/24/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 13 @ 2' (H600402-20)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/23/2016	ND	448	112	400	3.64	
Sample ID: SP 18 @ SURFA	ACE (H60040	2-21)							

Sample ID: SP 18 @ SURFACE (H600402-21)

Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/23/2016	ND	448	112	400	3.64	

Sample ID: SP 18 @ 1' (H600402-22)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/23/2016	ND	448	112	400	3.64	

Sample ID: SP 20 @ SURFACE (H600402-23)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/23/2016	ND	448	112	400	3.64	

Sample ID: SP 20 @ 1' (H600402-24)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/23/2016	ND	448	112	400	3.64	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/22/2016 Sampling Date: 02/19/2016

Reported: 02/24/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 22 @ SURFACE (H600402-25)

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	02/23/2016	ND	448	112	400	3.64	

Sample ID: SP 22 @ 1' (H600402-26)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/23/2016	ND	448	112	400	3.64	

Cardinal Laboratories *=Accredited Analyte

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476		10 A T	
Company Name: BBC International, Inc.	BIT 1718	7	ANALISIS REGOES:
- 200	P.O. #:		
30x 805	Company:	A	
State: N	Zip: 88241 Attn:	u mes	
5-397-6388 Fax #:	575-397-0397 Address:		
Project #: Project Owner:	OXV city:		
Project Name: State II -23 Bz	ttery State: Zip:		
Project Location: 72 tun MM	Phone #:		1
Sampler Name: 1/1/1 Drug /2/			
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING	
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	deemed waived unless made in writing and received by calcular writing without limitation, business interruptions, loss of use, or loss of profits g without limitation, business interruptions.	nourred by client, its subsidiaries,	
affiliates or successors arising out of or related to the performance of services hereunder by Card Relinquished By: Date:	Received By:	Phone Result: ☐ Yes ☐ No	o Add'l Phone #: o Add'l Fax #:
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(Circle One)	Sample Condition CHECKED BY:	7 8	
Sampler - UPS - Bus - Other:	U. V. Tres In res		

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Address: P.O. Box 805 Company:	Project Manager: Cliff Brunson P.O. #:	Company Name: BBC International, Inc.	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476
		ANALISIS REGION	

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		ation, business interruptions, loss of use, or loss of profits incurred by cle rdless of whether such claim is based upon any of the above stated reas:	al damages, including without limitation, business interruption of whether such or vices hereunder by Cardinal, regardless of whether such or vices hereunder by Cardinal, regardless of whether such or vices here.	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutions are supported by client and the performance of services bereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.
	y the client for the ompletion of the applicable	tract or tort, shall be limited to the amount paid b g and received by Cardinal within 30 days after o	xclusive remedy for any claim arising whether based in conwhatsoever shall be deemed waived unless made in writin	PLEASE NOTE: Lability and Demages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable
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	С		RS ER	
]]-	PRESERV. SAMPLING	MATRIX	FOR LAB USE ONLY
	第二年	Fax #:		Sampler Name:
		Phone #:	1	Project Location: 767///
	d (1)	State: Zip:	-23 Bzthary	Project Name: State I
		City:	Project Owner: 2XY	
	9	Address:	Fax #: 575-397-0397	5-397-6388
	<u>}</u>	Attn:	State: NM Zip: 88241	
		Company:	Section .	Address: P.O. Box 805
		P.O. #:		Project Manager: Cliff Brunson
ANALISIS REGOCO:		BILL TO	16.	Company Name: BBC International, Inc.
ANIALVEIC DECLIECT		100000	5) 393-24/0	(505) 393-2326 FAX (505) 393-2410

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2466

Sampler - UPS - Bus - Other:

Page 10 of 11

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(505) 393-2326 FAX (505) 393-2476	101 East Marland, Hobbs, NM 88240	ARDINAL LABORATORIES		
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(303) 333-2320 (20) 200	ANALYSIS REQUEST	
Company Name: BBC International, Inc.	BO#: Stieg 80	
Address: P.O. Box 805	Company:	
City: Hobbs State: NM Zip: 88241	Attn: //mmer	
5-397-6388 F	Address	
Project #: Project Owner: OXY	City	
ame: 5/2/e I.	State: Zip:	
Project Location: 72 tunn and	Phone #:	
Sampler Name: 1/24 Orne/25	Fax #:	
	PRESERV. SAMPLING	
Lab I.D. Sample I.D. AB OR (C)OM NTAINERS JINDWATER TEWATER	ER: /BASE: COOL	
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including phose for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In one 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.	of or tort, shall be limited to the amount paid by the client for the raceword by Cardinal within 30 days after completion of the applicable to loss of profits incurred by client, its subsidiaries.	
Relinquished By: Date: 19 Received By: Time: Tim	Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #: REMARKS:	
Relinquished By: Dates 11 Received By: Tings: 20	ender	
Delivered By: (Circle One) Sample Condition Cool Intact	tion CHECKED BY: (Intrals)	
COCI		Control of the Contro

Sampler - UPS - Bus - Other:



February 08, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE II-23 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/05/16 17:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

** (See Notes) Project Name: STATE II-23 BATTERY Sampling Condition: Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 1 @ SURFACE (H600271-01)

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	86000	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	76.4	% 35-147	,						
Survegata: 1 Chlorocatadacana	83 7 0	0/ 28 171							

Surrogate: 1-Chlorooctadecane 83.7 % 28-171

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 1 @ 1' (H600271-02)

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	39600	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	72.1	% 35-147	,						
G 1 CH 1	77.	20.171							

Surrogate: 1-Chlorooctadecane 77.6 % 28-171

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Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 1 @ 2' (H600271-03)

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	83.4 %	% 35-147	,						
Surrogate: 1-Chlorooctadecane	91.69	% 28-171							

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Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 1 @ 3' (H600271-04)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Reco	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	83.8 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	89.6	% 28-171							

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Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: TATUM, NM

mg/kg

Sample ID: SP 2 @ SURFACE (H600271-05)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.070	0.050	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	0.070	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	0.051	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	122000	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	83.2 %	6 35-147							
Surrogate: 1-Chlorooctadecane	92.0 %	6 28-171							

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 2 @ 1' (H600271-06)

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	78.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	84.7	% 28-171							

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 2 @ 2' (H600271-07)

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	83.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	91.9	% 28-171							

Surrogate: 1-Chlorooctadecane 91.9 % 28-171

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BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 2 @ 3' (H600271-08)

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13500	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	83.4 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	89.4	% 28-171							

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BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 3 @ SURFACE (H600271-09)

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	98600	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	80.3	% 35-147	,						
C 1 Chl	07.71	20 17							

Surrogate: 1-Chlorooctadecane 87.7 % 28-171

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 3 @ 1' (H600271-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.114	0.050	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	0.093	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30400	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	84.2 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	94.5	% 28-171							

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Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 3 @ 2' (H600271-11)

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	< 0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	< 0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	02/08/2016	ND	416	104	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	79.3 %	% 35-147	,						
Surrogate: 1-Chlorooctadecane	85.69	% 28-171							

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/05/2016 Sampling Date: 02/05/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: STATE II-23 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: TATUM, NM

Sample ID: SP 3 @ 3' (H600271-12)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	02/08/2016	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	
Surrogate: 1-Chlorooctane	81.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	87.6	% 28-171	,						

Surrogate: 1-Chlorooctadecane 87.6 % 28-171

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476	6		0.00
Company Name: BBC International, Inc.	,	BILLY	ANALYSIS REQUEST
Project Manager: Cliff Brunson		P.O. #:	
Address: P.O. Box 805		Company:	
city: Hobbs State: NM	Zip: 88241	Attn:	
5-397-6388 Fax #:	575-397-0397	Address:	
Project #: Project Owner:	OW	City:	
ame: State H	Rifts	State: Zip:	
Project Location:	1	Phone #:	X
Sampler Name: 15 1	5	Fax #:	
FOR LAB USE ONLY		PRESERV. SAMPLING	72/
Lab I.D. Sample I.D.	(G)RAB OR (C) # CONTAINERS GROUNDWATE WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME	3
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and Damages. Cardinal's ding those for negligence Cardinal be liable for incident	any claim arising whether based in contract e deemed waived unless made in writing and ng without limitation, business interruptions,	liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for life and only other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the sand or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	a for the opplicable strained and the opplicable strained and the opplicable strained and the opplicable opplicable of the opplicable opplicable of the opplicable op
Relinquished By: Action Relinquished By: Date: Impe: Impe:	Received By:	Moon	sult: □ Yes □ It: □ Yes □ S:
Relinquished By: Date:	Réceived By:	•	EMSH!
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact Ses Pres	ion CHECKED BY:	
		0 7/7	

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		3	ANALYS	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:			
Address: P.O. Box 805	Company:		•	
State: NM	Zip: 88241 Attn:			
3-397-6388 Fax #: 57	575-397-0397 Address:			
Project (r: OXV city:			
こくな ガン3	Acc State:	Zip:		
Project Location: 75%	Phone #:			
Sampler Name:	/ E) Fax#:	\ \	<u>Y</u>	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING	?/ /·	
Lab I.D. Sample I.D.)RAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL L .UDGE THER: CID/BASE: E / COOL THER:	87,	77	
1 5,207	×	25 139 4	メイ	
12 4763	C	75 215 X	7	
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sample Condition
Cool Intact
Yes Yes
No No

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By:

Time:

Received By:

☐ Yes ☐ No Add'I Phone #:

RUSH!

C.

Kathy Purvis

From: Keyes, Jamie, EMNRD < Jamie.Keyes@state.nm.us>

Sent: Thursday, April 07, 2016 7:51 AM

To: Cliff Brunson

Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey;

Amber Groves; Kathy Purvis

Subject: RE: OXY-State II-23 Battery-Remediation Plan

Good morning,

The work plan is approved.

Thank you,

Jamie

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

Sent: Wednesday, April 06, 2016 8:32 PM **To:** Keyes, Jamie, EMNRD; Amber Groves

Cc: Casey Summers; Dusty Wilson; Jennifer Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: OXY-State II-23 Battery-Remediation Plan

Jamie and Amber,

This email is to confirm our conversation on Monday, April 4, 2016 concerning the remediation plan for the Oxy State II-23 Battery leak. As agreed upon, Oxy will excavate the leak area to a depth of 2 feet or as practicable around the unknown (orphan) line. There is a concern around this line since no ownership has been identified and the condition of the line is unknown. Therefore, for safety reasons, conditions may alter the excavation around this line. Oxy will then place a 20 mil liner in the bottom of the excavation and backfill the entire excavation with clean top soil supplied by the Johnson's. During the course of the remediation, Oxy will have the flexibility to adjust the horizontal size of the of the leak area by utilizing the use of field screening for chlorides to guide the excavation edges. This information, if used, will be provided in the final report.

Oxy will add straw/hay to the top soil to assist in anchoring the top soil for erosion control due to winds primarily. The area will not be reseeded according to the Johnson's request. Natural seeding will be allowed.

In addition, Oxy is working on the ownership and movement/removal of the lines in the leak area that Oxy has control over. The attached remediation plan has all of the materials that we used in our discussion.

I appreciate your assistance in this project. Oxy will keep you informed of the progress and timeline of the remediation. If you have any questions, please let me know.

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

Phone: (575) 397-63 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com

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No virus found in this message. Checked by AVG - <u>www.avg.com</u>

Version: 2015.0.6189 / Virus Database: 4545/11981 - Release Date: 04/07/16









































