

Bratcher, Mike, EMNRD

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Sunday, April 06, 2014 4:50 PM
To: Bratcher, Mike, EMNRD
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: COG (Concho)-Westall A State #1 Tank Battery-Remediation Plan
Attachments: Remediation Packet.pdf

Mike,

This e-mail is to confirm our conversation on April 1, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, COG (Concho) will excavate to a depth of 3 feet in the entire leak area that is depicted on the attached site diagram. Then a compacted clay liner will be installed and the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
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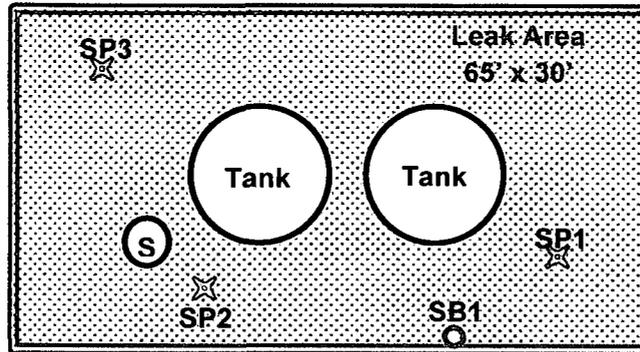
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COG

Westall A State #1 Tank Battery

Road



Stake

Road

Location Pad

U/L J, Section 36, T17S, R29E
1650'FSL and 1650'FEL
Eddy County, NM
N 32.78817° W 104.02323° at stake
API# 30-015-03798 (nearest well)

BBC International, Inc.

COG

Westall A State #1 Tank Battery

Date: 11/07/2013

DRWG by: K. Purvis

NOT TO SCALE

File: COG 2013



Groundwater Plot

COG Westall A State #1 Tank Battery

County
Eddy

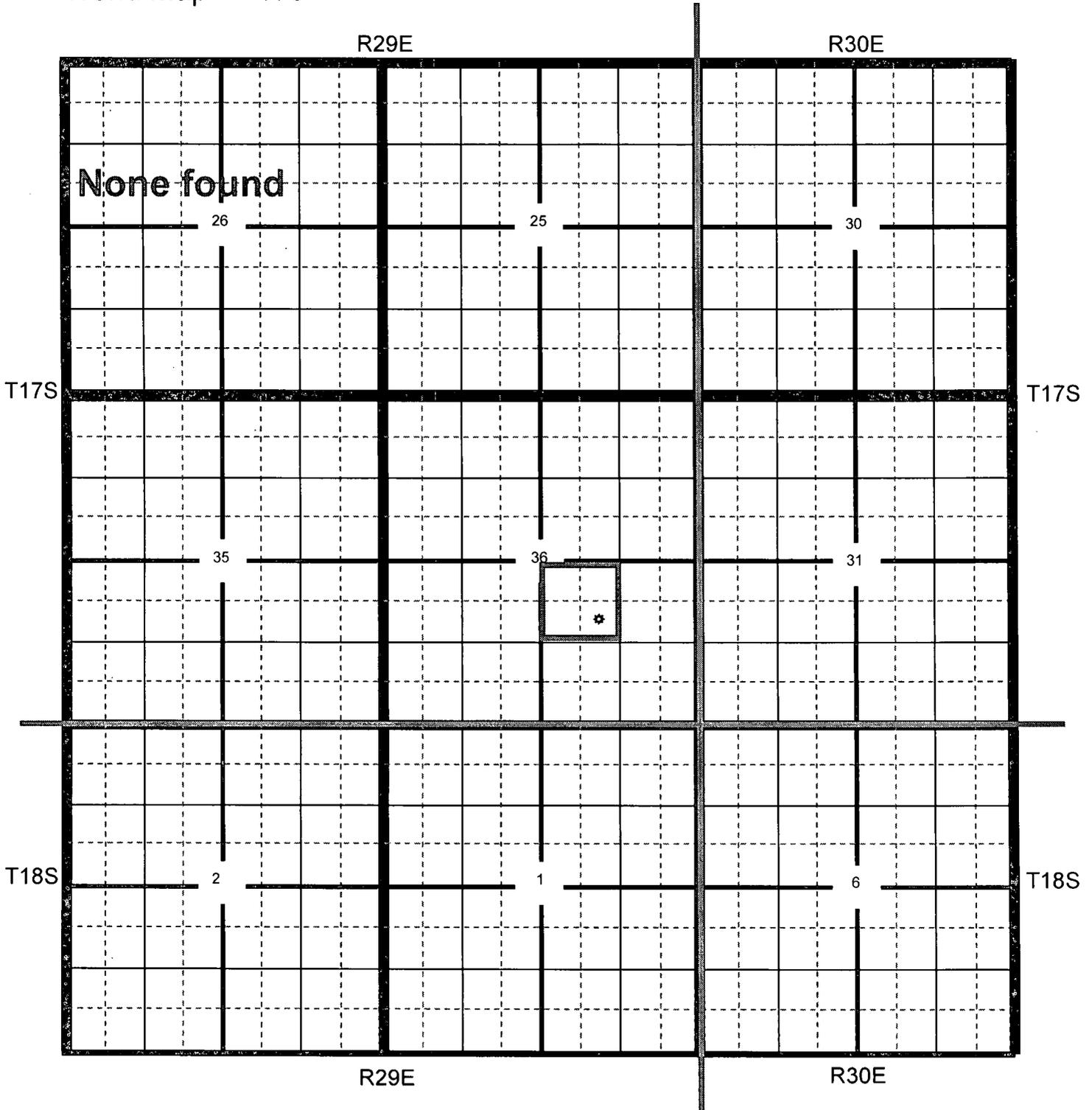
Unit Letter
J

Section
36

Township
17S

Range
29E

Trend Map 175'



⊛ Location

● OCD

● USGS

● SEO

● All Databases



Section Quarters

COG Westall A State #1 Tank Battery

<i>County</i> Eddy	<i>Unit Letter</i> J	<i>Section</i> 36	<i>Township</i> 17S	<i>Range</i> 29E
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Trend Map 175'

1

2

NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J ☼	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

☼ Location ● OCD ● USGS ● SEO ● All Databases

**Laboratory Analytical Results Summary
COG, Westall A State #1 Tank Battery**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 6'	SP1 @ 9'	SP1 @ 12'
Analyte	Method	Date	11/19/13	11/19/13	11/19/13	11/19/13	11/19/13	11/19/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		0.599	0.21	0.234	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		1.48	0.717	0.716	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		2.64	1.36	1.32	N/A	N/A	N/A
Total BTEX	BTEX 8021B		4.72	2.28	2.27	N/A	N/A	N/A
Chloride	SM4500Cl-B		1460	1420	1440	1650	2520	2160
GRO	TPH 8015M		<100	13	<100	N/A	N/A	N/A
DRO	TPH 8015M		1360	520	702	N/A	N/A	N/A

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 7'	SP2 @ 9'
Analyte	Method	Date	11/19/13	11/19/13	11/19/13	11/19/13	11/20/13	11/20/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		0.359	0.128	0.249	0.143	N/A	N/A
Ethylbenzene	BTEX 8021B		1.14	0.556	0.851	0.551	N/A	N/A
Total Xylenes	BTEX 8021B		2.16	1.1	1.61	1.07	N/A	N/A
Total BTEX	BTEX 8021B		3.66	1.78	2.71	1.76	N/A	N/A
Chloride	SM4500Cl-B		1540	1380	1520	1810	2040	2560
GRO	TPH 8015M		<100	<50.0	<50.0	<50.0	N/A	N/A
DRO	TPH 8015M		891	244	462	269	N/A	N/A

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 5'
Analyte	Method	Date	11/20/13	11/20/13	11/20/13	11/20/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	N/A
Chloride	SM4500Cl-B		2240	1720	1920	2640
GRO	TPH 8015M		<10.0	<10.0	<10.0	N/A
DRO	TPH 8015M		62.7	33.1	18.4	N/A

**Laboratory Analytical Results Summary
Westall A State #1 Tank Battery**

		Sample	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB1 @ 60'	SB1 @ 65'
Analyte	Method	Date	3/21/14	3/21/14	3/21/14	3/21/14	3/21/14	3/21/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		1960	2480	1730	2840	640	496



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 04, 2013

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

RE: WESTAL A STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/26/13 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/26/2013	Sampling Date:	11/19/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	WESTAL A STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 1 FT (H302886-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60		
Toluene*	0.599	0.050	11/27/2013	ND	2.12	106	2.00	2.36		
Ethylbenzene*	1.48	0.050	11/27/2013	ND	2.09	104	2.00	2.91		
Total Xylenes*	2.64	0.150	11/27/2013	ND	6.14	102	6.00	2.88		
Total BTEX	4.72	0.300	11/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PII) 150 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	12/02/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	11/27/2013	ND	225	112	200	1.52		
DRO >C10-C28	1360	100	11/27/2013	ND	216	108	200	3.15		

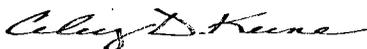
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 151 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/26/2013
 Reported: 12/04/2013
 Project Name: WESTAL A STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Amanda Ponce

Sample ID: SP 1 @ 2 FT (H302886-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60		
Toluene*	0.210	0.050	11/27/2013	ND	2.12	106	2.00	2.36		
Ethylbenzene*	0.717	0.050	11/27/2013	ND	2.09	104	2.00	2.91		
Total Xylenes*	1.36	0.150	11/27/2013	ND	6.14	102	6.00	2.88		
Total BTEX	2.28	0.300	11/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	12/02/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	13.0	10.0	11/27/2013	ND	225	112	200	1.52		
DRO >C10-C28	520	10.0	11/27/2013	ND	216	108	200	3.15		

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/26/2013
 Reported: 12/04/2013
 Project Name: WESTAL A STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Amanda Ponce

Sample ID: SP 1 @ 3 FT (H302886-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60		
Toluene*	0.234	0.050	11/27/2013	ND	2.12	106	2.00	2.36		
Ethylbenzene*	0.716	0.050	11/27/2013	ND	2.09	104	2.00	2.91		
Total Xylenes*	1.32	0.150	11/27/2013	ND	6.14	102	6.00	2.88		
Total BTEX	2.27	0.300	11/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	12/02/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	11/27/2013	ND	225	112	200	1.52		
DRO >C10-C28	702	100	11/27/2013	ND	216	108	200	3.15		

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 144 % 63.6-154

Sample ID: SP 1 @ 6 FT (H302886-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	12/02/2013	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	11/26/2013	Sampling Date:	11/19/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	WESTAL A STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 9 FT (H302886-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	12/02/2013	ND	432	108	400	3.77		

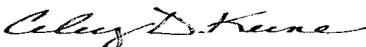
Sample ID: SP 1 @ 12 FT (H302886-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	12/02/2013	ND	432	108	400	3.77		

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Received:	11/26/2013	Sampling Date:	11/19/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	WESTAL A STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 1 FT (H302886-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60		
Toluene*	0.359	0.050	11/27/2013	ND	2.12	106	2.00	2.36		
Ethylbenzene*	1.14	0.050	11/27/2013	ND	2.09	104	2.00	2.91		
Total Xylenes*	2.16	0.150	11/27/2013	ND	6.14	102	6.00	2.88		
Total BTEX	3.66	0.300	11/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	12/02/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	11/27/2013	ND	225	112	200	1.52		
DRO >C10-C28	891	100	11/27/2013	ND	216	108	200	3.15		

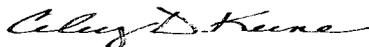
Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/26/2013
 Reported: 12/04/2013
 Project Name: WESTAL A STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Amanda Ponce

Sample ID: SP 2 @ 2 FT (H302886-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60		
Toluene*	0.128	0.050	11/27/2013	ND	2.12	106	2.00	2.36		
Ethylbenzene*	0.556	0.050	11/27/2013	ND	2.09	104	2.00	2.91		
Total Xylenes*	1.10	0.150	11/27/2013	ND	6.14	102	6.00	2.88		
Total BTEX	1.78	0.300	11/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	12/04/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/27/2013	ND	225	112	200	1.52		
DRO >C10-C28	244	50.0	11/27/2013	ND	216	108	200	3.15		

Surrogate: 1-Chlorooctane 94.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	11/26/2013	Sampling Date:	11/19/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	WESTAL A STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 3 FT (H302886-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60		
Toluene*	0.249	0.050	11/27/2013	ND	2.12	106	2.00	2.36		
Ethylbenzene*	0.851	0.050	11/27/2013	ND	2.09	104	2.00	2.91		
Total Xylenes*	1.61	0.150	11/27/2013	ND	6.14	102	6.00	2.88		
Total BTEX	2.71	0.300	11/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	12/04/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/27/2013	ND	225	112	200	1.52		
DRO >C10-C28	462	50.0	11/27/2013	ND	216	108	200	3.15		

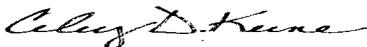
Surrogate: 1-Chlorooctane 76.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/26/2013	Sampling Date:	11/19/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	WESTAL A STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 4 FT (H302886-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60		
Toluene*	0.143	0.050	11/27/2013	ND	2.12	106	2.00	2.36		
Ethylbenzene*	0.551	0.050	11/27/2013	ND	2.09	104	2.00	2.91		
Total Xylenes*	1.07	0.150	11/27/2013	ND	6.14	102	6.00	2.88		
Total BTEX	1.76	0.300	11/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1810	16.0	12/04/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/27/2013	ND	225	112	200	1.52		
DRO >C10-C28	269	50.0	11/27/2013	ND	216	108	200	3.15		

Surrogate: 1-Chlorooctane 75.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.6 % 63.6-154

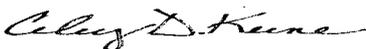
Sample ID: SP 2 @ 7 FT (H302886-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	12/04/2013	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/26/2013	Sampling Date:	11/20/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	WESTAL A STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 9 FT (H302886-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	12/04/2013	ND	400	100	400	3.92	

Sample ID: SP 3 @ 1 FT (H302886-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	2.36	
Ethylbenzene*	<0.050	0.050	11/27/2013	ND	2.09	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	11/27/2013	ND	6.14	102	6.00	2.88	
Total BTEX	<0.300	0.300	11/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PII) 113 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	12/04/2013	ND	400	100	400	3.92	

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	11/27/2013	ND	205	102	200	10.5	
DRO >C10-C28	62.7	10.0	11/27/2013	ND	202	101	200	13.7	

Surrogate: 1-Chlorooctane 73.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.6 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/26/2013	Sampling Date:	11/20/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	WESTAL A STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	LOCO HILLS, NM		

Sample ID: SP 3 @ 2 FT (H302886-14)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60		
Toluene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	2.36		
Ethylbenzene*	<0.050	0.050	11/27/2013	ND	2.09	104	2.00	2.91		
Total Xylenes*	<0.150	0.150	11/27/2013	ND	6.14	102	6.00	2.88		
Total BTEX	<0.300	0.300	11/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	12/04/2013	ND	400	100	400	3.92		

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	11/27/2013	ND	205	102	200	10.5		
DRO >C10-C28	33.1	10.0	11/27/2013	ND	202	101	200	13.7		

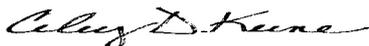
Surrogate: 1-Chlorooctane 78.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.0 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/26/2013	Sampling Date:	11/20/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	WESTAL A STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	LOCO HILLS, NM		

Sample ID: SP 3 @ 3 FT (H302886-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	1.60		
Toluene*	<0.050	0.050	11/27/2013	ND	2.12	106	2.00	2.36		
Ethylbenzene*	<0.050	0.050	11/27/2013	ND	2.09	104	2.00	2.91		
Total Xylenes*	<0.150	0.150	11/27/2013	ND	6.14	102	6.00	2.88		
Total BTEX	<0.300	0.300	11/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	12/04/2013	ND	400	100	400	3.92		

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	11/27/2013	ND	205	102	200	10.5		
DRO >C10-C28	18.4	10.0	11/27/2013	ND	202	101	200	13.7		

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.5 % 63.6-154

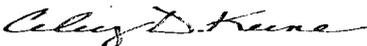
Sample ID: SP 3 @ 5 FT (H302886-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	12/04/2013	ND	400	100	400	3.92		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

20
Page 15 of 15

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company:																			
City: Hobbs		State: NM		Zip: 88241		Attn: <i>SAM</i>																	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																			
Project #:		Project Owner:		City:																			
Project Name: <i>Wesal A State Battery</i>				State:				Zip:															
Project Location: <i>Lees Hills</i>				Phone #:																			
Sampler Name: <i>Cory Roy</i>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX				PRESERV.		SAMPLING												
				(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CL-	TPH	BTEX					
H302886																							
11		SP 2 @ 7H		G										11/20/13	10:40	X							
12		SP 2 @ 9H		G										11/20/13	11:20	X							
13		SP 3 @ 1H		G										11/20/13	1:20	X	X	X					
14		SP 3 @ 2H		G										11/20/13	1:37	X	X	X					
15		SP 3 @ 3H		G										11/20/13	1:52	X	X	X					
16		SP 3 @ 5H		G										11/20/13	3:00	X							
		<i>KSP</i>																					
		<i>11/26/13</i>																					

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Relinquished By: <i>[Signature]</i>		Date: 11/20/13		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 5:00				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: 11/26/13		Received By: <i>[Signature]</i>		REMARKS:			
		Time: 9:00							
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>4.7°C H 54</i>				Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <i>[Signature]</i>			

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

[Handwritten marks]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 02, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WESTAL

Enclosed are the results of analyses for samples received by the laboratory on 12/23/13 16:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads 'Celey D. Keene'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/23/2013
 Reported: 01/02/2014
 Project Name: WESTAL
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 12/20/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 14 FT (H303119-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2013	ND	1.77	88.5	2.00	3.75		
Toluene*	<0.050	0.050	12/30/2013	ND	1.76	87.9	2.00	3.39		
Ethylbenzene*	<0.050	0.050	12/30/2013	ND	1.73	86.5	2.00	3.04		
Total Xylenes*	<0.150	0.150	12/30/2013	ND	5.08	84.6	6.00	2.87		
Total BTEX	<0.300	0.300	12/30/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	01/02/2014	ND	400	100	400	3.92		

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	12/27/2013	ND	189	94.6	200	5.41		
DRO >C10-C28	<10.0	10.0	12/27/2013	ND	184	91.9	200	10.3		

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Sample ID: SP 1 @ 16 FT (H303119-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	01/02/2014	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/23/2013
 Reported: 01/02/2014
 Project Name: WESTAL
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 12/20/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 18 FT (H303119-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	01/02/2014	ND	400	100	400	3.92		

Sample ID: SP 2 @ 11 FT (H303119-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	01/02/2014	ND	400	100	400	3.92		

Sample ID: SP 2 @ 13 FT (H303119-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	01/02/2014	ND	400	100	400	3.92		

Sample ID: SP 2 @ 16 FT (H303119-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	01/02/2014	ND	400	100	400	3.92		

Sample ID: SP 2 @ 18 FT (H303119-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	01/02/2014	ND	400	100	400	3.92		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/23/2013
 Reported: 01/02/2014
 Project Name: WESTAL
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 12/20/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 7 FT (H303119-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/02/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

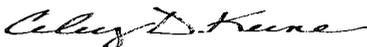
Notes and Definitions

- 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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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company:																			
City: Hobbs		State: NM		Zip: 88241		Attn:																	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: <i>Same</i>																			
Project #:		Project Owner: <i>COG</i>		City: <i>Same</i>																			
Project Name: <i>Westal</i>				State:				Zip:															
Project Location: <i>Loco Hills</i>				Phone #:																			
Sampler Name: <i>Gary Ray</i>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(GRAB OR C/COMP.)	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		CL	TPH	B-TEX							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:	DATE				TIME						
<i>H303119</i>																							
	<i>1 SP2 @ 14 FT</i>	<i>G</i>	<i>1</i>		<i>X</i>				<i>X</i>			<i>12-20-13</i>	<i>9:15</i>	<i>X</i>	<i>X</i>	<i>X</i>							
	<i>2 SP1 @ 16 FT</i>	<i>G</i>	<i>1</i>		<i>X</i>				<i>X</i>			<i>12-20-13</i>	<i>10:00</i>	<i>X</i>									
	<i>3 SP2 @ 18 FT</i>	<i>G</i>	<i>1</i>		<i>X</i>				<i>X</i>			<i>12-20-13</i>	<i>10:28</i>	<i>X</i>									
	<i>4 SP2 @ 11 FT</i>	<i>G</i>	<i>1</i>		<i>X</i>				<i>X</i>			<i>12-20-13</i>	<i>10:55</i>	<i>X</i>									
	<i>5 SP2 @ 13 FT</i>	<i>G</i>	<i>1</i>		<i>X</i>				<i>X</i>			<i>12-20-13</i>	<i>11:30</i>	<i>X</i>									
	<i>6 SP2 @ 16 FT</i>	<i>G</i>	<i>1</i>		<i>X</i>				<i>X</i>			<i>12-20-13</i>	<i>12:15</i>	<i>X</i>									
	<i>7 SP2 @ 18 FT</i>	<i>G</i>	<i>1</i>		<i>X</i>				<i>X</i>			<i>12-20-13</i>	<i>12:38</i>	<i>X</i>									
	<i>8 SP3 @ 7 FT</i>	<i>G</i>	<i>1</i>		<i>X</i>				<i>X</i>			<i>12-20-13</i>	<i>1:15</i>	<i>X</i>									

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Relinquished By:	Date: <i>12/23/13</i>	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>4:59</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>JH</i>		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(Initials)		

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

#54

March 28, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WESTALL A STATE #1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/24/14 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/24/2014	Sampling Date:	03/21/2014
Reported:	03/28/2014	Sampling Type:	Soil
Project Name:	WESTALL A STATE #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB 1 @ 20' (H400868-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	03/26/2014	ND	416	104	400	3.77		

Sample ID: SB 1 @ 30' (H400868-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	03/26/2014	ND	416	104	400	3.77		

Sample ID: SB 1 @ 40' (H400868-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	03/26/2014	ND	416	104	400	3.77		

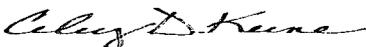
Sample ID: SB 1 @ 50' (H400868-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	03/26/2014	ND	416	104	400	3.77		

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/24/2014	Sampling Date:	03/21/2014
Reported:	03/28/2014	Sampling Type:	Soil
Project Name:	WESTALL A STATE #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB 1 @ 60' (H400868-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	03/26/2014	ND	416	104	400	3.77		

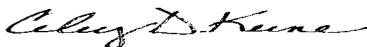
Sample ID: SB 1 @ 65' (H400868-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	03/26/2014	ND	416	104	400	3.77		

Cardinal Laboratories

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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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Celey D. Keene, Lab Director/Quality Manager

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	COG OPERATING LLC	Contact	Robert McNeill
Address	600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Westall A State #1	Facility Type	Tank Battery
Surface Owner	State	Mineral Owner	Lease No. (API#) 30-015-03798

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	36	17S	29E					Eddy

Latitude 32.78815 Longitude 104.02333

NATURE OF RELEASE

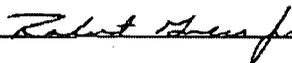
Type of Release	Oil	Volume of Release	20bbbls	Volume Recovered	15bbbls
Source of Release	Tank Battery	Date and Hour of Occurrence	10-25-2013	Date and Hour of Discovery	10-25-2013 10:24am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A 4" valve separated at thread seam on the production tank. Replaced the 4" valve.

Describe Area Affected and Cleanup Action Taken.*
Initially 20bbbls of oil were released due to a 4" valve that failed on the production inside the tank battery. We were able to recover 15bbbls of oil with a vacuum truck. The spill was contained inside the Tank Battery. All free fluid has been recovered. BBC will sample the spill site area to delineate any possible contamination from the release and we will present a work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:		OIL CONSERVATION DIVISION	
Printed Name:	Robert Grubbs Jr.	Approved by District Supervisor:	
Title:	Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address:	rgrubbs@concho.com	Conditions of Approval:	
Date:	10-30-2013	Phone:	432-661-6601
			Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Kathy Purvis <kathy@bbcinternational.com>
Sent: Thursday, November 14, 2013 2:51 PM
To: Bratcher, Mike, EMNRD; Adam Olguin; Alan Coor (William); Baron Chandler; Brian Cunningham; Chris Chesser; Claudie Cochran; Danny Matthews; David Coor; David Rutherford; Eddie Foster; Gail Lamb; Jason Barnett; Jimmy Wilcox; Keenan Kern; Kent Greenway; Larry Baker; Michelle Mullins; Robbie Miller; Robert Grubbs; Rocky Harper; Ron Beasley; Ronnie Tice; Ryan Faulkenberry; Stan Hammond; Warren Hunt; Winston Ballard
Cc: kswinney@bbcinternational.com; cbrunson@bbcinternational.com; jgilkey@bbcinternational.com
Subject: BBC, Delineation of Westall A State #1 Tank Battery

BBC International Inc. will begin delineation activities on Friday, November 15, 2013 at the Westall A State #1 Tank Battery in Eddy County, NM. If you have any questions, please contact our office.

Kathy Purvis

BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240
Phone: (575) 397-6388
Fax: (575) 397-0397
Email: kathy@bbcinternational.com