SITE INFORMATION Report Type: Closure Report

Site:	Walker sta	ate Tank Ba	tterv	
Company:	COG Oper			
Section, Township, and Range:	27	175	29E	-
Lease Number:				
County:	Eddy Cour	ntv. NM	<u> </u>	
GPS:	N 32 48.00		W 104 09	9.671
Surface Owner:	State			
Mineral Owner:				<u> </u>
Directions:	(right) on calic turn Left, go N	the road, go thro lorth for 0.1 mile	ough cattle gua e to location.	2 and CR 217, go West for 10.5 miles, turn North ard for 0.15 mile, turn East (right) and go 0.1 mile
Release Data:	a the second	a		<u>Gelle additter and a see y see y strand and a team from the self see the set of the sector of the sector of the</u>
Date Released:	8/8/2011	<u> </u>	_	
Type of Release:	Oil			
Source of Contamination:	Hole in sto	orage tank		
Fluid Released:	200 bbls			
Fluids Recovered:	18 bbls			
Official Communication:	a ministration of the second		and and a second second	an a na an
Name:	Pat Ellis			Cliff Brunson
Company:	COG Oper	ating LLC		BBC International, Inc.
Address:	550 W. Te	xas Ave., St	e. 1300	1324 W. Marland
РО Вох:		_		PO Box 805
City, State, Zip Code:	Midland, T	X 79701		Hobbs, NM 88241
Phone Number:	(432) 686-	3023		(575) 397-6388
Fax:	(432) 684-	7137		(575) 397-0397
Email:		<u>nchoresourc</u>		cbrunson@bbcinternational.com
Ranking Criteria:		and the second		an a
Depth to Groundwater:	R	anking Sco	ore	Site Data
<50 ft.		20		
50-99 ft.		10		
>100 ft.		0		0
Well Head Protection:	R	anking Sco	ore	Site Data
Water Source <1,000 ft., Private <200	/	20		
Water Source >1,000 ft., Private >200		0		0
Surface Body of Water:	R	anking Sco	ore	Site Data
<200 ft.		20		
200 ft 1,000 ft.		10		
>1,000 ft.		0		0
Total Ranking Score:		0	Nandara ana ana tangka ka	

Acceptab	le Soil RRA	L (mg/kg)
Benzene	Total BTEX	TPH
10	50	5000





COG Operating LLC

Walker State Tank Battery

(Release Date 8/8/11)

Unit O, Section 27, Township 17 South, Range 29 East Eddy County, New Mexico GPS: N 32 48.065 W 104 09.671

ENVIRONMENTAL SITE INVESTIGATION

CLOSURE REPORT

PERFORMED BY:

BBC INTERNATIONAL, INC. WORLD-WIDE ENVIRONMENTAL SPECIALISTS 1324 W. MARLAND BLVD. P. O. BOX 805 HOBBS, NEW MEXICO 88240 (575) 397-6388 • FAX (575) 397-0397

March 13, 2012

PREPARED FOR:

MR. PAT ELLIS MANAGER, HSE COG OPERATING LLC FASKEN CENTER TOWER II 550 WEST TEXAS AVENUE, SUITE 100 MIDLAND, TEXAS 79701 Mr. Mike Bratcher Compliance Officer Oil Conservation Division, District 2 811 South First Artesia, NM 88210

Re: Closure plan for the COG Operating LLC, Walker State Tank Battery, Unit O, Section 27, Township 17 South, Range 29 East, Eddy County, NM

1.0 SITE CHARACTERIZATION

The subject site is located west of Loco Hills, in Section 27, Township 17 South, and Range 29 East, Eddy County, New Mexico. The site consists of undeveloped rangeland and petroleum production facilities. On August 8, 2011, a hole in a storage tank developed causing the release of oil from the tank. Approximately 200 bbls of oil was released with approximately 18 bbls being recovered by a vacuum truck.

A diagram of the leak area including the sample points can be reviewed in Appendix I of this report. The surface soil is red sand and caliche. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. Based on data from the Lea County Groundwater Trend Map, the depth to groundwater in Section 27, Township 17 South, and Range 29 East is 125' to 150'. The initial C-141 is at the end of this report in Appendix III.

2.0 SITE INVESTIGATION ACTIVITIES

On September 7, 2011, BBC personnel conducted a delineation of the site. The site delineation occurred after initial spill response activities had been conducted by COG. Hydrocarbon impacted soil had been excavated to a depth ranging from 6 inches to three feet across the spill site. Seven sample points were advanced in the leak area using a hand auger to a total depth of 2 feet. Two samples were taken from each sample point at one foot and two foot intervals. The samples were taken to Cardinal Laboratories for TPH analysis for all of the samples. Laboratory analysis for SP1 @ surface is <10.0 ppm GRO and 28.1 ppm DRO. Laboratory analysis for SP1 @ 2' is <10.0 ppm GRO and 16.4 ppm DRO. Laboratory analysis for SP2 @ 2' is <10.0 ppm GRO and 37.5 ppm DRO. Laboratory analysis for SP2 @ 3' is <10.0 ppm GRO and <10.0 ppm DRO. Laboratory analysis for SP3 @ 1' is <10.0 ppm GRO and 36.7 ppm DRO. Laboratory analysis for SP3 @ 2' is <10.0 ppm GRO and 222 ppm DRO. Laboratory analysis for SP4 @ 1' is 12.7 ppm GRO and 558 ppm DRO. Laboratory analysis for SP4 @ 2' is <10.0 ppm GRO and 66.5 ppm DRO. Laboratory analysis for SP5 @ 1' is <10.0 ppm GRO and 12.2 ppm DRO. Laboratory analysis for SP5 @ 2' is <10.0 ppm GRO and <10.0 ppm DRO. Laboratory analysis for SP6 @ 1' is

11.9 ppm GRO and 441 ppm DRO. Laboratory analysis for SP6 @ 2' is <10.0 ppm GRO and 26.5 ppm DRO. Laboratory analysis for SP7 @ 1' is <10.0 ppm GRO and 19.6 ppm DRO. Laboratory analysis for SP7 @ 2' is <10.0 ppm GRO and <10.0 ppm DRO. The results of the analysis are located in Appendix II of this report. The sample point locations can be viewed on the site diagram in Appendix I of this report.

3.0 CONCLUSION AND RECOMMENDATION

BBC personnel met with Mike Bratcher of the NMOCD on September 28, 2011 to discuss the laboratory results and site activities. With the depth to groundwater in the 125' to 150' range, the NMOCD clean up guidelines put the TPH criteria at 5,000 ppm or below and the highest TPH reading was SP4 at 1 foot with a level of 558 ppm, the site was determined to be in compliance with the guidelines.

After reviewing the laboratory results and discussing the site details, the NMOCD agreed that no further action was required at this site and permission was granted to close this site. The final C-141 is located in Appendix III of this report.

APPENDIX I

Site Diagram

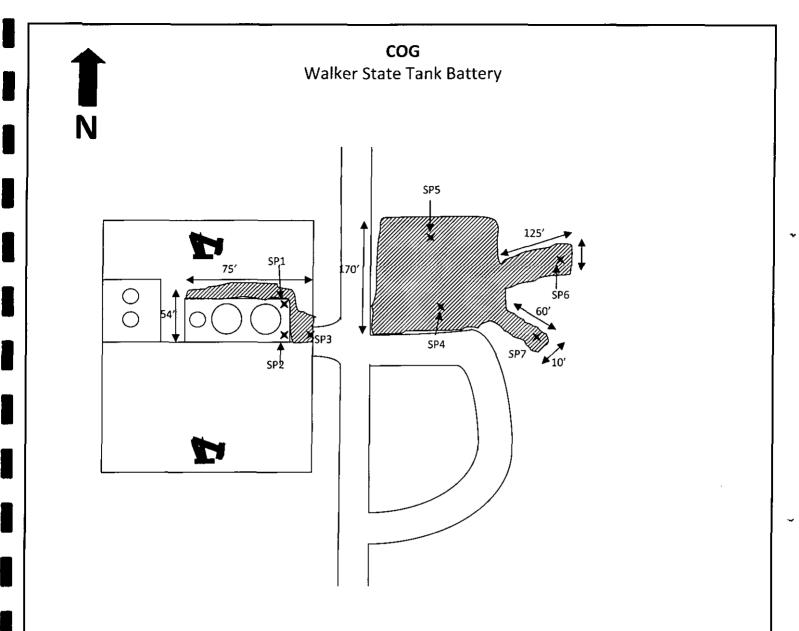
September 2011

Walker State Tank Battery (8/8/11)

Unit O, Section 27, Township 17 South, Range 29 East Eddy County, NM GPS: N 32 48.065 W 104 09.671

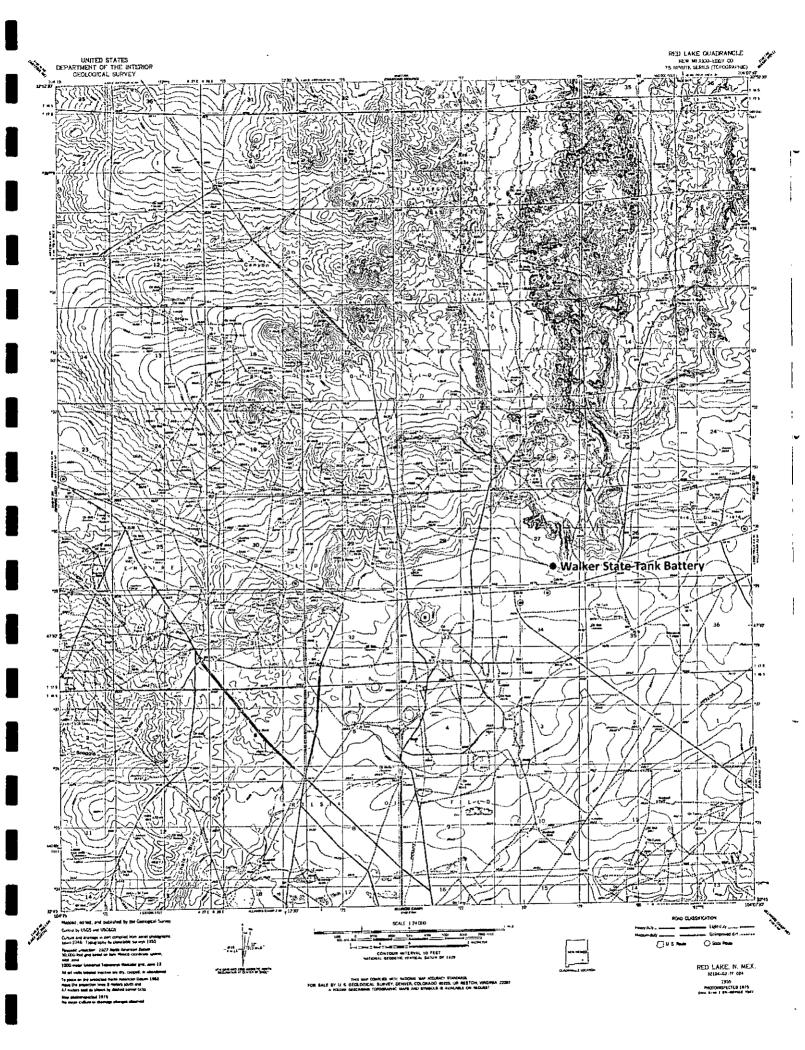
> Prepared for: COG Operating LLC Midland, Texas

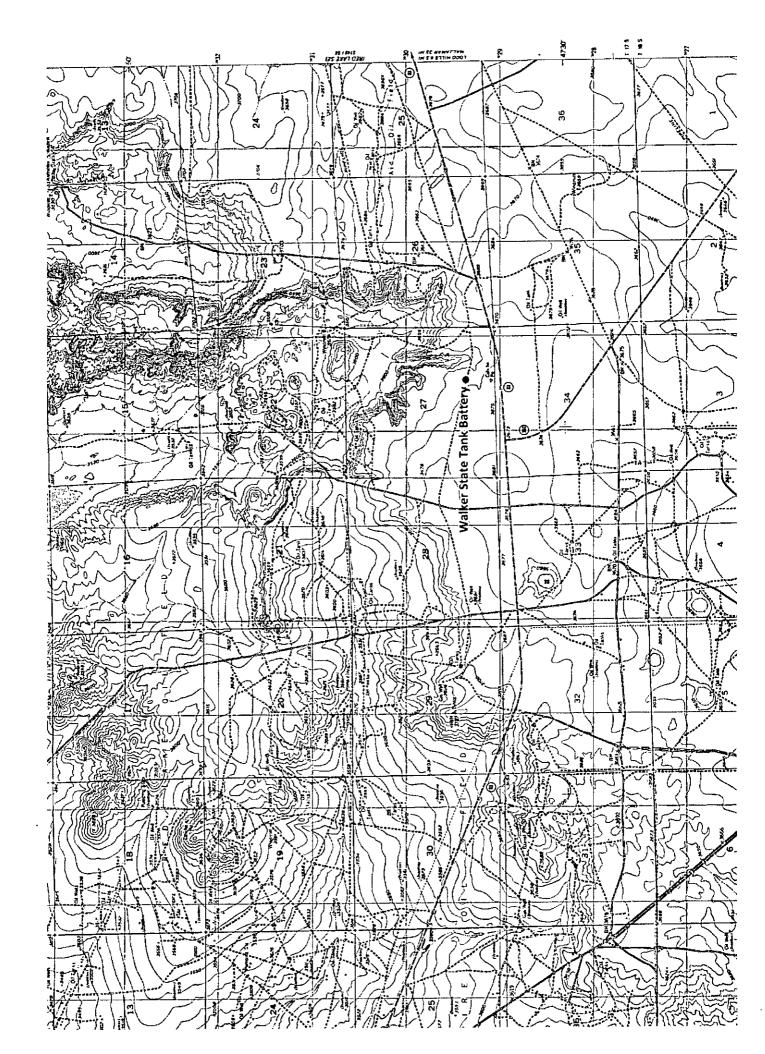
Prepared by: BBC International, Inc.



UL O, Sec 27, T 17S, R 29E Eddy County, NM N 32 48.065, W 104 09.671

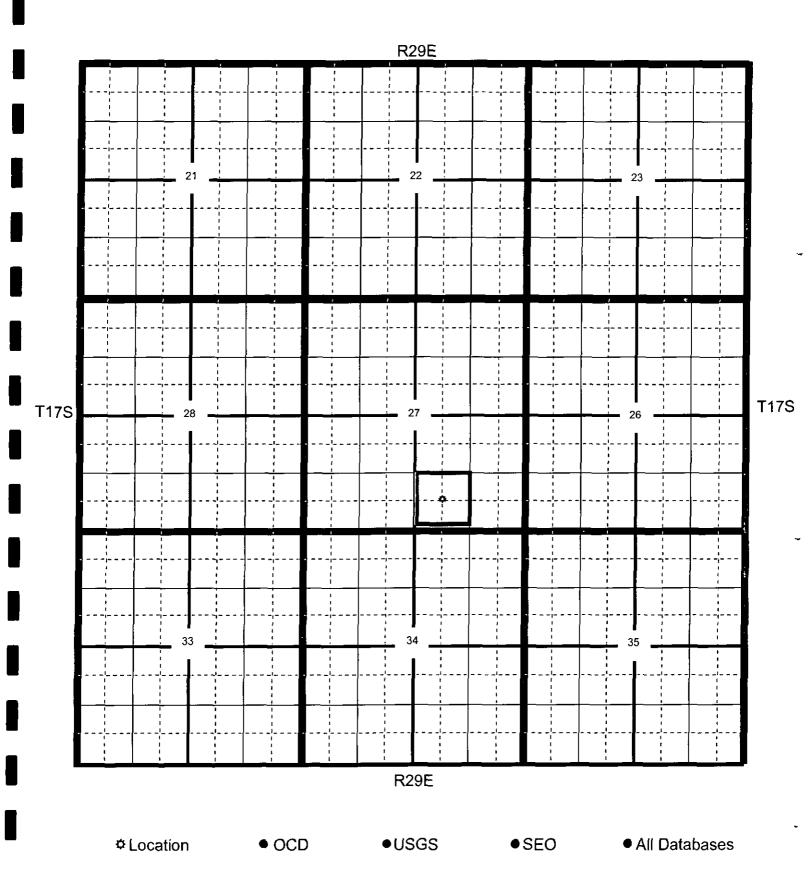
BBC Intern	ational, Inc.	
C	OG	
Walker State Tank Battery		
Date: 09/8/11	DRWG by: KAP	
Disk:	Sheet 1 of 1	
Scale: Not to Scale	File Name:	







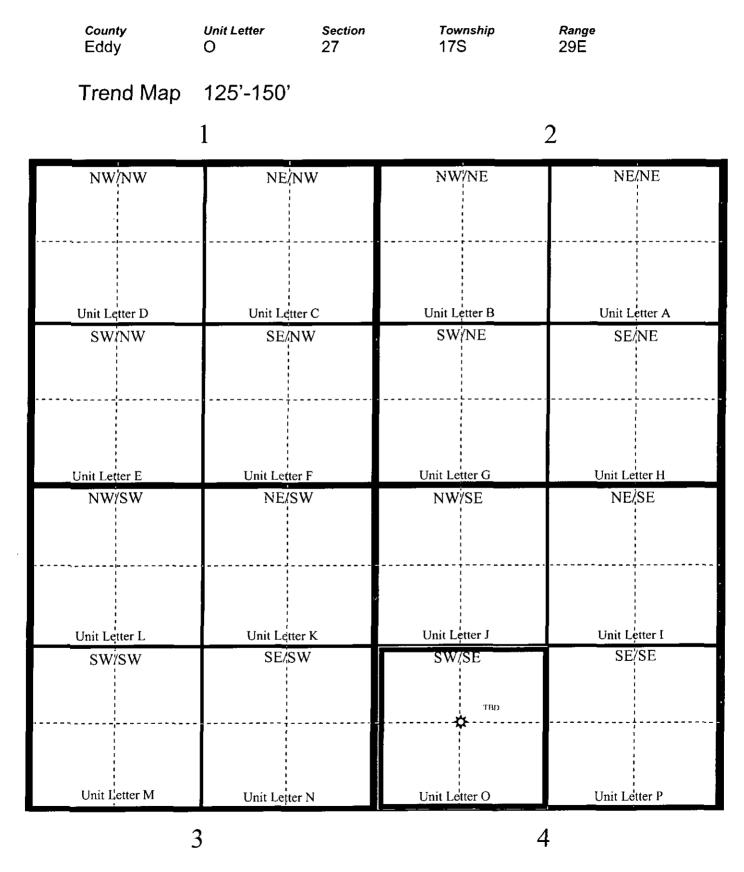
Oil/Gas Well Name: Walker State Tank Battery Eddy County, NM UL O, Sec 27, T17S, R29E Trend Map: 125'-150'





Section Quarters

COG Walker State Tank Btry



APPENDIX II

Laboratory Analytical Results

September 2011

Walker State Tank Battery (8/8/11)

Unit O, Section 27, Township 17 South, Range 29 East Eddy County, NM GPS: N 32 48.065 W 104 09.671

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.

Laboratory Analytical Results Summary COG, Walker State Tank Battery

ł

		Sample	SP1 @ 1. SP1 @ 2.	SP1 @ 2'
Analyte	Method	Date	9/7/11	9/7/11
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		28.1	16.4

Analyte Method Date 9/7/11 9/7/11 Analyte Method Date 9/7/11 9/7/11 Benzene BTEX 8021B mg/Kg mg/Kg Benzene BTEX 8021B <0.050 <0.050 Toluene BTEX 8021B <0.050 <0.050 Ethylbenzene BTEX 8021B <0.050 <0.050 Otal Xylenes BTEX 8021B <0.050 <0.050 GRO TPH 8015M <10.0 <10.0 DRO TPH 8015M 37.5 <10.0			Sample	SP2 @ 2' SP2 @ 3'	SP2 @ 3'
mg/kg mg/kg ene BTEX 8021B c.0.050 c.0.050 ine BTEX 8021B c.0.050 c.0.050 c.0.050 ine BTEX 8021B c.0.050 c.0.050 c.0.050 c.0.050 benzene BTEX 8021B c.0.050 c.0.050 <thc.0.050< th=""> <thc.0.050< th=""> c.0</thc.0.050<></thc.0.050<>	Analyte	Method	Date	9/7/11	9/7/11
BTEX 8021B <th< th=""> <t< th=""><th></th><th></th><th></th><th>mg/Kg</th><th>mg/Kg</th></t<></th<>				mg/Kg	mg/Kg
Ine BTEX 8021B <0.050	Benzene	BTEX 8021B		<0.050	<0.050
benzene BTEX 8021B <0.050	Toluene	BTEX 8021B		<0.050	<0.050
Xylenes BTEX 8021B <0.150	Ethylbenzene	BTEX 8021B		<0.050	<0.050
TPH 8015M <10.0 TPH 8015M 37.5	Total Xylenes	BTEX 8021B		<0.150	<0.150
TPH 8015M 37.5	GRO	TPH 8015M		<10.0	<10.0
	DRO	TPH 8015M		37.5	<10.0

		Sample		SP3 @ 1' SP3 @ 2'
Analyte	Method	Date	9/7/11	9/7/11
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		36.7	222

		Sample	SP4 @ 1' SP4 @ 2'	SP4 @ 2'
Analyte	Method	Date	9/7/11	9/7/11
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	0.095
Toluene	BTEX 8021B		0.19	0.092
Ethylbenzene	BTEX 8021B		0.246	0.199
Total Xylenes	BTEX 8021B		1.21	0.677
GRO	TPH 8015M		12.7	<10.0
DRO	TPH 8015M		558	66.5

		Sample	SP5 @ 1'	SP5 @ 1' SP5 @ 2'
Analyte	Method	Date	9/7/11	11/11
			6y/6w	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.061	<0.050
Ethylbenzene	BTEX 8021B		0.067	<0.050
Total Xylenes	BTEX 8021B		0.33	<0.150
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		12.2	<10.0

:		Sample	SP6@1'	SP6 @ 1' SP6 @ 2'
Analyte	Method	Date	9/7/1	9/7/11
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.124	<0.050
Ethylbenzene	BTEX 8021B		0.153	<0.050
Total Xylenes	BTEX 8021B		0.716	<0.150
GRO	TPH 8015M		11.9	<10.0
DRO	TPH 8015M		441	26.5

		Sample	SP7 @ 1'	SP7 @ 1' SP7 @ 2'
Analyte	Method	Date	9/7/11	9/7/11
			by/6w	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.06	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		0.21	0.154
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		19.6	<10.0

CARDINAL Laboratories

September 16, 2011

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

RE: WALKER STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/12/11 9:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

CARDINAL Laboratories

Analytical Results For:

8BC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 1 FT (H101926-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Behzene*	<0.05 0	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	<0.050	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	<0.150	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PII.	104 9	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: ab		<u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2011	ND	170	85.0	200	4.11	
DR0 >C10-C28	28.1	10.0	09/13/2011	ND	169	84.3	200	4.24	
Surrogate: I-Chlorooctane	1119	\$5.5-15	4				·		
Surrogate: 1-Chlorooctadecane	108 %	6 57.6-15	8						

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*=Accredited Analyte

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Celeg Di Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL

Analytical Results For:

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

Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 2 FT (H101926-02)

BTEX 8021B	mg/	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	<0.050	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	<0.150	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PIL	107 9	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: ab			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2011	ND	170	85.0	200	4.11	
DRO >C10-C28	16.4	10.0	09/13/2011	ND	169	84.3	200	4.24	
Surrogate: 1-Chlorooctane	107 %	6 55.5-15	4				• • •		
Surrogate: 1-Chlorooctadecane	100 %	6 57.6-15	8						

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

Analytical Results For:

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

Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 2 FT (H101926-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: CMS					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	<0.050	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	<0.150	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PIL	101 5	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRO >C10-C28	37.5	10.0	09/15/2011	ND	184	91.8	200	1.96	
Surrogate: I-Chlorooctane	109 9	% 55.5-15	4			,			
Surrogate: 1-Chlorooctadecane	104 9	57.6-15	ş .						

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Celeg Di Kune

Celey D. Keene, Lab Director/Quality Manager

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

Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 3 FT (H101926-04)

CARDINAL Laboratories

BTEX 8021B	mg <i>j</i>	/kg	Analyze	ed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	<0.050	0.050	09/12/2011	ND	2.14	107	2.00	5,71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6,12	
Total Xylenes*	<0.150	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PIL	110 %	64.4-13	+						
TPH 8015M	mg/	kg	Analyze	d By: ab		- <u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRO >C10-C28	<10.0	10.0	09/15/2011	ND	184	91.8	200	1.96	
Surrogate: 1-Chlorooctane	1189	6 55.5-15	4			<u> </u>	· - 		
Surrogate: 1-Chlorooctadecane	1169	6 57.6-15	8						

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 18



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

Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 3 @ 1 FT (H101926-05)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	<0.050	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	<0.150	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PII.	106 %	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRO >C10-C28	36.7	10.0	09/15/2011	ND	184	91.8	200	1.96	
Surrogate: 1-Chlorooctane	113 %	6 55.5-15	4						- <u></u> .
Surrogate: 1-Chlorooctadecane	107 9	6 57.6-15	8						

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Celey D. Kerne

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 3 @ 2 FT (H101926-06)

BTEX 80218	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	<0.050	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	<0.150	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PIL	108 %	64.4-13	4	· · · · · · · · · · · · · · · · · · ·					
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	18 1	90.6	200	0.0855	
DR() >C10-C28	222	10.0	09/15/2011	ND	184	91.8	200	1.96	
Surrogate: 1-Chlorooctane	113%	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	106 %	6 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 4 @ 1 FT (H101926-07)

BTEX 8021B	mg/	kg _	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	0.190	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	0.246	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	1.21	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (P1L	111%	64.4-13	4			·	•,• <u>·</u> ·		
TPH 8015M	mg/l	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.7	10.0	09/15/2011	ND	181	9 0.6	200	0.0855	
DRO >C10-C28	558	10.0	09/15/2011	ND	184	91.8	200	1.96	
Surrogate: I-Chlorooctane	117%	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	104 %	6 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 4 @ 2 FT (H101926-08)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.095	0.050	09/12/2011	ND	2.31	116	2.00	1,51	
Toluene*	0.092	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	0.199	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	0.677	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PIL	103 9	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: ab		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRO >C10-C28	66.5	10.0	09/15/2011	ND	184	91.8	200	1.96	
Swrogute: 1-Chlorooctane	124 9	55.5-15	4						
Surrogate: 1-Chlorooctadecane	1129	6 57.6-15	8						

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Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 5 @ 1 FT (H101926-09)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					<u>-</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	09/12/2011	ND	2.31	116	2.00	1 .51	
Toluene*	0.061	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	0.067	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	0.330	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PII.	98.1	% 64.4-13	4				·		
TPH 8015M	mg/	kg	Analyze	d By: ab			, 		<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRO >C10-C28	12.2	10.0	09/15/2011	ND	184	91.8	200	1.96	
Surrogate: 1-Chlorooctane	1189	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108 9	57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 5 @ 2 FT (H101926-10)

BTEX 8021B	mg/	kg	Analyze	d By: CMS	<u> </u>	· <u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	<0.050	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	<0.150	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PIL	1129	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRQ >C10-C28	<10.0	10.0	09/ 15/2011	ND	184	91.8	200	1.96	
Surrogate: 1-Chlorooctane	140%	6 55.5-15	4						
Surrogate: I-Chlorooctadecane	130 %	6 57.6-15	8						

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Analytical Results For:

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Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 6 @ 1 FT (H101926-11)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0,050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	0.124	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	0.153	0.050	09/12/20 11	ND	2.11	105	2.00	6,12	
Total Xylenes*	0.716	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PIL	109 %	64.4-13	4	i					
TPH 8015M	mg/l	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.9	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRO >C10-C28	441	10.0	09/15/2011	ND	184	91.8	200	1.96	
Surrogate: 1-Chlorooctane	118 %	6 55.5-15	4						
Surrogate: 1-Chlorooctudecane	107 %	57.6-15	8						

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

Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 6 @ 2 FT (H101926-12)

BTEX 80218	mg/	kg	Analyze	d By: CMS				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	<0.050	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	<0.150	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PII.	109 %	64.4-13	4				<u> </u>		
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRO >C10-C28	26.5	10.0	09/15/2011	ND	184	91.8	200	1.96	
Surrogate: 1-Chlorooctane	1269	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	118%	6 57.6-15	8						

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Analytical Results For:

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Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 7 @ 1 FT (H101926-13)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	0.060	0.050	09/12/2011	ND	2,14	107	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	0.210	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PIL	106 %	64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: ab		_ _			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRO >C10-C28	19.6	10.0	09/15/2011	ND	184	91.8	200	1.96	
Surrogate: 1-Chlorooctane	126 %	\$ 55.5-15	4				<u></u>		
Surrogate: 1-Chlorooctadecane	118%	6 57.6-15	8						

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Analytical Results For:

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

Received:	09/12/2011	Sampling Date:	09/07/2011
Reported:	09/16/2011	Sampling Type:	Soil
Project Name:	WALKER STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 7 @ 2 FT (H101926-14)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2011	ND	2.31	116	2.00	1.51	
Toluene*	<0.050	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/12/2011	ND	2.11	105	2.00	6.12	
Total Xylenes*	0.154	0.150	09/12/2011	ND	6.27	105	6.00	5.62	
Surrogate: 4-Bromofluorobenzene (PIL	104 5	64.4-13	4				<u></u>		
TPH 8015M	mg/kg		Analyzed By: ab			<u> </u>	<u> </u>	<u>_</u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/15/2011	ND	181	90.6	200	0.0855	
DRO >C10-C28	<10.0	10.0	09/15/ 2011	ND	184	91.8	200	1.96	
Surrogate: 1-Chlorooctane	120 9	55.5-15	4	· • • • • • • • • • • • • • • • • • • •				<u>_</u>	
Surrogate: 1-Chlorooctadecane	108 9	6 57.6-15	8						

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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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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PLEASE NOTE: Liability and Camages, Candinal's labality and deterts 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 whatsoever shall be deemed waved unless made in winting and received by Cardinal worthin thinky (30) days after completion of the applicable servee. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business intermybons, loss of use, or loss of profits incurred by client, its subsidiances, 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 bolines listed stretures relates interfaced by Cardinal Laboratories.

Celez Kune

Celey D. Keene, Lab Director/Quality Manager

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 1606, 323, 3736, 500, 1000, 2010

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Manage	Project Manager: Cliff Brunson		P.O. #:		 .			1.			-
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST ARDINAL LABORATORIES 101 East Martand, Hobbs, NM 88240 ALLENE DES SASE EAV ALLENES

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

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APPENDIX III

C-141 August 2011

Walker State Tank Battery (8/8/11)

Unit O, Section 27, Township 17 South, Range 29 East Eddy County, NM GPS: N 32 48.065 W 104 09.671

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.

State of New Mexico Energy Minerals and Natural Resources

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

-

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

			Rel	ease Notifi	catio	on and Co	orrective A	ction				
						OPERA	TOR	\boxtimes	Iniți	al Report		Final Repor
Name of Co	mpany	COG OP	ERATIN	IG LLC		Contact	P	at Ellis				*
Address	550 W.	Texas, Suite	: 100, Mi	idland, TX 7970)1	Telephone l	No. 432-	230-0077				
Facility Na	ne	Walker St	ate Tank	Battery		Facility Typ	e Tank	Battery				
Surface Ow	mer State			Mineral (Owner		· · · · · · · · · · · · · · · · · · ·	[L	ease N	No.	·	
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter 0	Section 27	Township 17S	Range 29E	Feet from the		h/South Line	Feet from the	East/West	Line	County	Eddy	
		•		Latitude 32		-	ide 104 09.671			·		
Time of Role					URE	COF REL	EASE Release 200bbls	Va	luma f	Daga yang d	106610	
Type of Rele Source of Re		in tank					lour of Occurrence			Recovered Hour of Di		,
addree of the						08/08/2011				1 8:00 a.n		
Was Immedia	ate Notice (If YES, To	Whom?	Mike Brate		~~		
					equireo				ner-Qu	-D		
By Whom? Josh Russo Was a Watercourse Reached?							our 08/08/2011					
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.						
If a Watercon	irse was Im	pacted, Descri	be Fully.*				<u></u>					
Describe Cau	se of Proble	m and Reme	lial Action	Taken *								
						• • • • • • • •		• •				
A hole develo	oped in the	oottom of an C	ni tank. I	në tank has been	remove	ed and is in the	process of being	repaired.				
Describe Are	a Affected a	and Cleanup A	ction Tak	en.*								
Initially roug remove surfa- to any signifi	ce contamin	ation. BBC v	leased fro vill sample	m the tank and water the spill site arc:	e were a to idc	able to recover ntify any possi	18bbls with a va ble contamination	cuum truck. a from the re	The s clease.	pill area w We will n	ill be sci otify the	raped to OCD prior
regulations al public health should their o	l operators a or the envir perations ha ment. In ac	are required to onment. The ave failed to a Idition, NMO	report an acceptanc dequately CD accept	d/or file centain re e of a C-141 repo investigate and re	elease i it by th emedia	notifications and ne NMOCD ma te contamination	knowledge and us d perform correct arked as "Final Re on that pose a three the operator of n	tive actions eport" does t eat to ground	for rele not reli l water	ases which eve the ope , surface w	n may er crator of ater, hui	ndanger Hability man health
				~			OIL CONS	SERVAT	ION	DIVISI	<u>NC</u>	
Signature:	· · · · · · · ·	\sim	- (/		•••							
Printed Name		Josh	Russo			Approved by	District Superviso	or:				
Title:		HSE Co	ordinator			Approval Date		Expir	ation [Date:		
E-mail Addres		jrusso@conch				Conditions of	Approval:			Attached		
Date: 08/1	7/2011	<u>Ph</u>	one: 4	132-212-2399						<u> </u>		

* Attach Additional Sheets If Necessary

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

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

Release	e Notifica	ation and C	orrective A	ețion		
·		<u>OPERA</u>		Ini	tial Report	Final Rep
Name of Company COG Operating LLC		Contact	Pat Ellis			
Address 550 W. Texas, Suite 100, Midland, T Facility Name Walker State Tank Battery	X 79701	Telephone Facility Typ				
Facility Name walker State Talk Battery			pe Tank Ba	llery		
Surface Owner State	Mineral Ov	vner		Lease	No.	
		FION OF RE	· · · · · · · · · · · · · · · · · · ·	·····		
Unit Letter Section Township Range Feel	t from the	North/South Line	Feet from the	East/West Line	County	_
0 27 17S 29E			<u> </u>	<u> </u>	Eddy Cour	nty, NM
Latitu	ide <u>N 32 48</u>	. <u>065</u> Longitu	de <u>W 104 09.6</u>	<u>71</u>		
	NATI	RE OF RELI	EASE			
Type of Release Oil		Volume of		bls Volume	Recovered	18 bbls
Source of Release Hole in tank			lour of Occurrent		Hour of Disc	
		08/08/2011		08/08/20	11 @ 8:00 a.i	in
Was Immediate Notice Given?	🗌 Not Requ	If YES, To aired Mike Brate				
By Whom? Josh Russo		Date and H	our 08/08/201	@ 2:04 p.m.		
Was a Watercourse Reached?			lume Impacting t			<u> </u>
🛄 Yes 🖾 No		(
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Remedial Action Take	n.*	<u> </u>				
A hole developed in the bottom of an oil tank. The tank	k has been ren	noved and is in the	process of being	repaired.		
Describe Area Affected and Cleanup Action Taken.*	· <u> </u>					
Initially approximately 200 bbls of oil was release from	the tank and	18 bble were recov	ered via vacuum	nick Remediatio	n was compl	eted in accordance
with an OCD approved remediation plan.	The tank and			nuon remetation	in was comple	
		to the heat of my h	mandada and an	Jaugton of thest source	ventes NAG	CD rules and
I hereby certify that the information given above is true regulations all operators are required to report and/or fil	e certain relea	ise notifications and	d perform correct	ive actions for rele	eases which m	ay endanger
public health or the environment. The acceptance of a C	C-141 report b	v the NMOCD mai	rked as "Final Re	port" does not reli	eve the operation	tor of liability
should their operations have failed to adequately investi or the environment. In addition, NMOCD acceptance of	gate and reme	diate contaminatio	n that pose a thre	at to ground water	, surface wate	er, hunnan health
or the environment. In addition, NMOCD acceptance of federal, state, or local laws and/or regulations.	ra C-141 repo	ort does not reneve	the operator of re	sponstonity for cu	impliance wit	in any other
1 ~			OIL CONS	ERVATION	DIVISION	<u>v</u>
Signature:						
	<u></u>	Approved by D	Vistrict Supervisor			
Printed Name: Josh Russo		inpprotect of D		·	<u> </u>	
fitle: HSE Coordinator		Approval Date:		Expiration D	Date:	
-mail Address: jrusso@conchoresources.com		Conditions of A	Approval:			-
07/2010					Attached [
tate: 07/05/20/2 Phone: 432-2	212-2399		·		L <u></u>	

Attach Additional Sheets If Necessary