

SITE INFORMATION

Report Type: Closure Report

General Site Information:			
Site:	Walker state Tank Battery		
Company:	COG Operating LLC		
Section, Township, and Range:	27	17S	29E
Lease Number:			
County:	Eddy County, NM		
GPS:	N 32 48.065	W 104 09.671	
Surface Owner:	State		
Mineral Owner:			
Directions:	In Loco Hills, from the intersection of Hwy 82 and CR 217, go West for 10.5 miles, turn North (right) on caliche road, go through cattle guard for 0.15 mile, turn East (right) and go 0.1 mile, turn Left, go North for 0.1 mile to location.		

Release Data:	
Date Released:	8/8/2011
Type of Release:	Oil
Source of Contamination:	Hole in storage tank
Fluid Released:	200 bbls
Fluids Recovered:	18 bbls

Official Communication:		
Name:	Pat Ellis	Cliff Brunson
Company:	COG Operating LLC	BBC International, Inc.
Address:	550 W. Texas Ave., Ste. 1300	1324 W. Marland
PO Box:		PO Box 805
City, State, Zip Code:	Midland, TX 79701	Hobbs, NM 88241
Phone Number:	(432) 686-3023	(575) 397-6388
Fax:	(432) 684-7137	(575) 397-0397
Email:	pellis@conchoresources.com	cbrunson@bbcinternational.com

Ranking Criteria:		
Depth to Groundwater:	Ranking Score	Site Data
<50 ft.	20	
50-99 ft.	10	
>100 ft.	0	0

Well Head Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200	20	
Water Source >1,000 ft., Private >200	0	0

Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft. - 1,000 ft.	10	
>1,000 ft.	0	0

Total Ranking Score:	0
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Acceptable Soil RRAL (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)

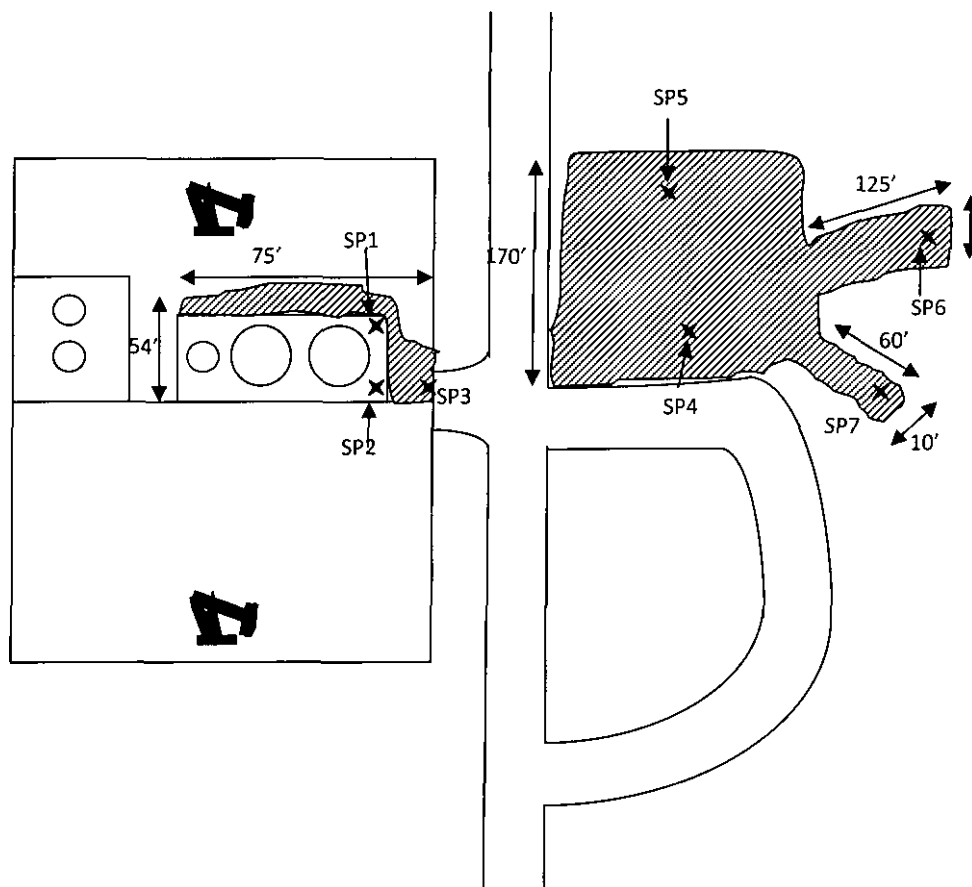
Unit O, Section 27, Township 17 South, Range 29 East
Eddy County, NM
GPS: N 32 48.065 W 104 09.671

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

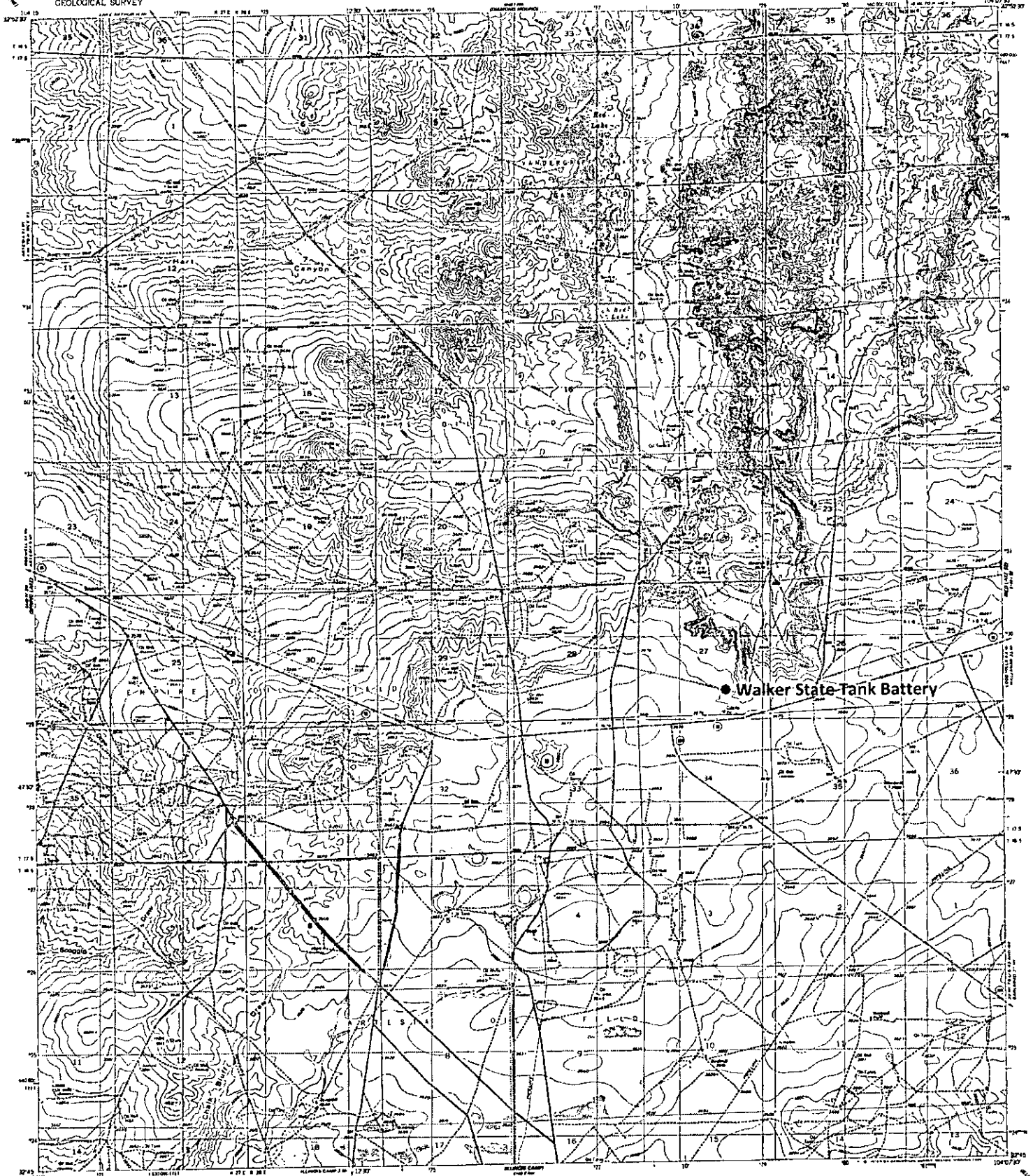


COG
Walker State Tank Battery



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

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



Map made, revised, and published by the Geological Survey
Control by UNCS and UNCSGS
Contours and drainage in part compiled from aerial photographs
taken 1946. Topography by photostereoscopic surveys 1955
Resection: 1957 North American Datum
10,000 foot grid based on San Marcos coordinate system,
map zone
1000 meter Universal Transverse Mercator zone 13
All old wells labeled inactive are dry. Current, in addition
to those on the Universal Transverse Mercator Datum 1983
map, the projection lines 3 meters south and
47 meters east are shown by dashed corner ticks
Map photoreduced 1978
No major culture or drainage changes observed



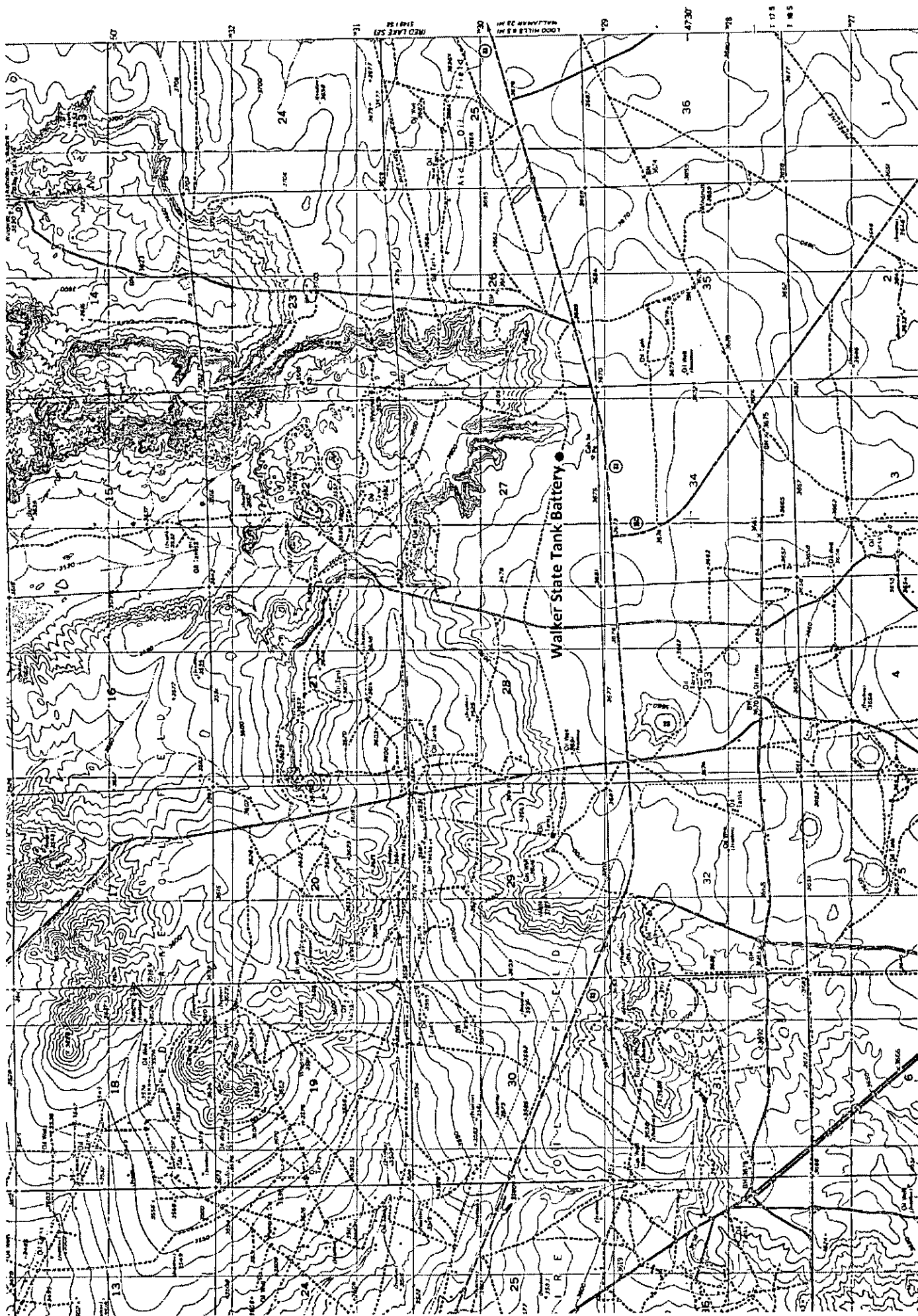
SCALE 1:24,000
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



ROAD CLASSIFICATION
Heavy duty ————— Light duty —————
Medium-duty ————— Unimproved dirt —————
U.S. Route ————— State Route —————

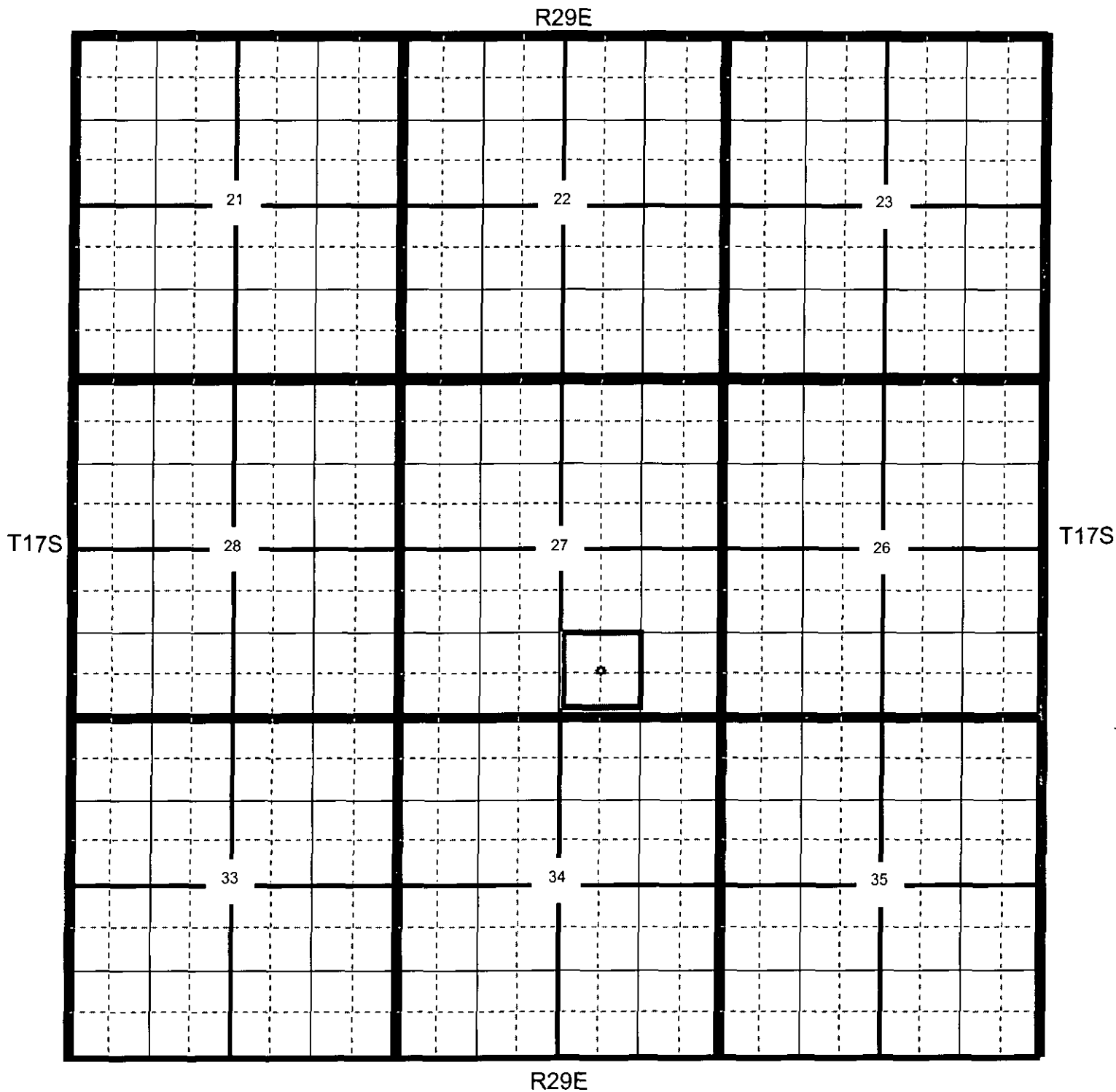
THIS MAP COMPILED WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22082
A KILMER DISSEMINATION TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

RED LAKE, N. MEX.
32104-02, 11 024
1955
PHOTODUPLICATION 1975
Data from 1:25,000-scale map



Groundwater Plot

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



★ Location

● OCD

● USGS

● SEO

● All Databases

COG Walker State Tank Btry

County
Eddy

Unit Letter
O

Section
27

Township
17S

Range
29E

Trend Map 125'-150'

1

2

NW/NW Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O TBD	SE/SE Unit Letter P

3

4

⊛ Location

● OCD

● USGS

● SEO

● All Databases

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

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 2'
			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	Sample Date	SP2 @ 2'	SP2 @ 3'
			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		37.5	<10.0

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 2'
			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

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 2'
			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

Analyte	Method	Sample Date	SP5 @ 1'	SP5 @ 2'
			9/7/11	9/7/11
			mg/Kg	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

Analyte	Method	Sample Date	SP6 @ 1'	SP6 @ 2'
			9/7/11	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

Analyte	Method	Sample Date	SP7 @ 1'	SP7 @ 2'
			9/7/11	9/7/11
			mg/Kg	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

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 Hydrocarbons

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

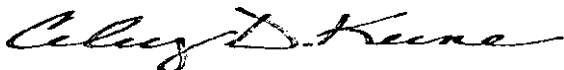
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/12/2011
Reported: 09/16/2011
Project Name: WALKER STATE BATTERY
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 09/07/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTEx 8021B		mg/kg		Analyzed 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) 104 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: ab					
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	28.1	10.0	09/13/2011	ND	169	84.3	200	4.24	

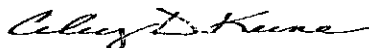
Surrogate: 1-Chlorooctane 111 % 55.5-154

Surrogate: 1-Chlorooctadecane 108 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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 1 @ 2 FT (H101926-02)

BTX 8021B		mg/kg		Analyzed 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 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: ab					
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	

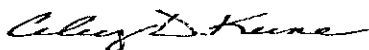
Surrogate: 1-Chlorooctane 107 % 55.5-154

Surrogate: 1-Chlorooctadecane 100 % 57.6-158

Cardinal Laboratories

* = Accredited Analyte

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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: (505) 397-0397

Received: 09/12/2011
Reported: 09/16/2011
Project Name: WALKER STATE BATTERY
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 09/07/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2 FT (H101926-03)
BTEX 8021B
mg/kg
Analyzed 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) 101 % 64.4-134

TPH 8015M
mg/kg
Analyzed 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	

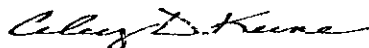
Surrogate: 1-Chlorooctane 109 % 55.5-154

Surrogate: 1-Chlorooctadecane 104 % 57.6-158

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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)

BTX 8021B		mg/kg	Analyzed 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 % 64.4-134

TPH 8015M		mg/kg	Analyzed 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	<10.0	10.0	09/15/2011	ND	184	91.8	200	1.96		

Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 116 % 57.6-158

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Received: 09/12/2011
Reported: 09/16/2011
Project Name: WALKER STATE BATTERY
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 09/07/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTEx 8021B		mg/kg		Analyzed 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) 106 % 64.4-134

TPH 8015M		mg/kg		Analyzed 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	

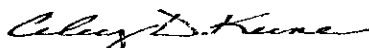
Surrogate: 1-Chlorooctane 113 % 55.5-154

Surrogate: 1-Chlorooctadecane 107 % 57.6-158

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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: (505) 397-0397

Received: 09/12/2011
Reported: 09/16/2011
Project Name: WALKER STATE BATTERY
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 09/07/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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 % 64.4-134

TPH 8015M		mg/kg		Analyzed 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	222	10.0	09/15/2011	ND	184	91.8	200	1.96	


Surrogate: 1-Chlorooctane 113 % 55.5-154

Surrogate: 1-Chlorooctadecane 106 % 57.6-158

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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
 Reported: 09/16/2011
 Project Name: WALKER STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 09/07/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTEx 8021B		mg/kg		Analyzed 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 (PIL) 111 % 64.4-134

TPH 8015M		mg/kg		Analyzed 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	90.6	200	0.0855	
DRO >C10-C28	558	10.0	09/15/2011	ND	184	91.8	200	1.96	


Surrogate: 1-Chlorooctane 117 % 55.5-154

Surrogate: 1-Chlorooctadecane 104 % 57.6-158

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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
Reported: 09/16/2011
Project Name: WALKER STATE BATTERY
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 09/07/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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 % 64.4-134

TPH 8015M		mg/kg		Analyzed 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	66.5	10.0	09/15/2011	ND	184	91.8	200	1.96	

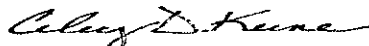
Surrogate: 1-Chlorooctane 124 % 55.5-154

Surrogate: 1-Chlorooctadecane 112 % 57.6-158

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

Received: 09/12/2011
Reported: 09/16/2011
Project Name: WALKER STATE BATTERY
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 09/07/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg	Analyzed 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*	0.061	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 (PIL) 98.1 % 64.4-134

TPH 8015M		mg/kg	Analyzed 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	12.2	10.0	09/15/2011	ND	184	91.8	200	1.96	

Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 108 % 57.6-158

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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
Reported: 09/16/2011
Project Name: WALKER STATE BATTERY
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 09/07/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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) 112 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRQ 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	

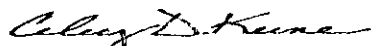
Surrogate: 1-Chlorooctane 140 % 55.5-154

Surrogate: 1-Chlorooctadecane 130 % 57.6-158

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 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 @ 1 FT (H101926-11)

BTEx 8021B		mg/kg		Analyzed 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*	0.124	0.050	09/12/2011	ND	2.14	107	2.00	5.71	
Ethylbenzene*	0.153	0.050	09/12/2011	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 % 64.4-134

TPH 8015M		mg/kg		Analyzed 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	

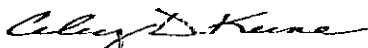
Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 107 % 57.6-158

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

 Received: 09/12/2011
 Reported: 09/16/2011
 Project Name: WALKER STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 09/07/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 80218		mg/kg		Analyzed 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) 109 % 64.4-134

TPH 8015M		mg/kg		Analyzed 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 126 % 55.5-154

Surrogate: 1-Chlorooctadecane 118 % 57.6-158

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

Received: 09/12/2011
Reported: 09/16/2011
Project Name: WALKER STATE BATTERY
Project Number: NONE GIVEN
Project Location: LOCO HILLS, NM

Sampling Date: 09/07/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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 % 64.4-134

TPH 8015M		mg/kg		Analyzed 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 % 55.5-154

Surrogate: 1-Chlorooctadecane 118 % 57.6-158

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Analytical Results For:

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 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)

BTX 8021B		mg/kg		Analyzed 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 % 64.4-134

TPH 8015M		mg/kg		Analyzed 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	<10.0	10.0	09/15/2011	ND	184	91.8	200	1.96	

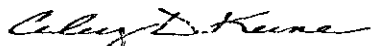
Surrogate: 1-Chlorooctane 120 % 55.5-154

Surrogate: 1-Chlorooctadecane 108 % 57.6-158

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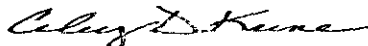
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and there'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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

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

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

ARDINAL LABORATORIES

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

[illegible]

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.

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	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Walker State Tank Battery	Facility Type	Tank Battery

Surface Owner State	Mineral Owner	Lease No.
---------------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
0	27	17S	29E					Eddy

Latitude 32 48.065 Longitude 104 09.671

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	200bbls	Volume Recovered	18bbls
Source of Release	Hole in tank	Date and Hour of Occurrence	08/08/2011	Date and Hour of Discovery	08/08/2011 8:00 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-OCD		
By Whom?	Josh Russo	Date and Hour	08/08/2011 2:04 p.m.		
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 hole developed in the bottom of an oil tank. The tank has been removed and is in the process of being repaired.

Describe Area Affected and Cleanup Action Taken.*

Initially roughly 200bbls of oil were released from the tank and we were able to recover 18bbls with a vacuum truck. The spill area will be scraped to remove surface contamination. BBC will sample the spill site area to identify any possible contamination from the release. We will notify the OCD 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.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Josh Russo	Approved by District Supervisor:	
Title:	HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address:	jrusso@conchoresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	08/17/2011	Phone:	432-212-2399

* Attach Additional Sheets If Necessary

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	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Walker State Tank Battery	Facility Type	Tank Battery
Surface Owner	State	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	27	17S	29E					Eddy County, NM

Latitude N 32 48.065 Longitude W 104 09.671

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	200 bbls	Volume Recovered	18 bbls
Source of Release	Hole in tank	Date and Hour of Occurrence	08/08/2011	Date and Hour of Discovery	08/08/2011 @ 8:00 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Josh Russo	If YES, To Whom?	Mike Bratcher-OCD		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Date and Hour	08/08/2011 @ 2:04 p.m.				
If YES, Volume Impacting the Watercourse.					

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A hole developed in the bottom of an oil tank. The tank has been removed and is in the process of being repaired.

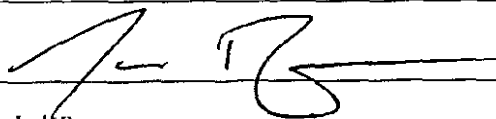
Describe Area Affected and Cleanup Action Taken.*

Initially approximately 200 bbls of oil was release from the tank and 18 bbls were recovered via vacuum truck. Remediation was completed in accordance with an OCD approved remediation plan.

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.

OIL CONSERVATION DIVISION

Signature:



Printed Name: Josh Russo

Approved by District Supervisor:

Title: HSE Coordinator

Approval Date:

Expiration Date:

E-mail Address: jrusso@conchoresources.com

Conditions of Approval:

Attached ☐

Date: 07/05/2012

Phone: 432-212-2399

* Attach Additional Sheets If Necessary