

SITE INFORMATION
Report Type: Closure Report

RECEIVED
AUG 13 2013
NMOCD ARTESIA

General Site Information:			
Site:	Chicken Hawk State #1		
Company:	COG Operating LLC		
Section, Township, and Range:	15	25S	38E
Lease Number:	API# 30-015-33682		
County:	Eddy County, NM		
GPS:	N 32 08.236	W 104 04.079	
Surface Owner:	State		
Mineral Owner:			
Directions:	In Malaga, from the intersection of Black River Village Road (CR720) and US Hwy 285, go South on Hwy 285 for 6.5 miles to lease road on Left (East), turn East and follow main road N/NE for 0.8 miles to location on left (West) side.		

Release Data:	
Date Released:	6/26/2012
Type of Release:	Produced water
Source of Contamination:	Alarm failure caused produced water tank to overflow
Fluid Released:	85 bbls
Fluids Recovered:	80 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

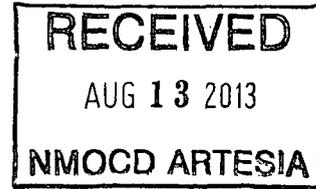
Ranking Criteria:		
Depth to Groundwater:	Ranking Score	Site Data
<50 ft.	20	20
50-99 ft.	10	
>100 ft.	0	

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:	20
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Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5000



COG Operating LLC

Chicken Hawk State #1

(Release Date: 06/26/2012)

**Unit A, Section 15, Township 25 South, Range 28 East
Eddy County, New Mexico
GPS: N 32 08.236 W 104 04.079**

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**

June 21, 2013

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 COG Operating LLC, Chicken Hawk State #1,
Unit A, Section 15, Township 25 South, Range 28 East, Eddy County, NM

1.0 SITE CHARACTERIZATION

The subject site is located Southeast of Carlsbad, in Section 15, Township 25 South, and Range 28 East, Eddy County, NM. The GPS coordinates are N 32 08.236 W 104 04.079. The site consists of undeveloped rangeland and petroleum production facilities. On June 26, 2012, an electrical malfunction prevented the high level alarm from sounding, in turn causing the produced water tank to overflow. The spill measured approximately 20' x 40' inside the dike walls of the tank battery. Approximately 85 bbls of produced water were released with roughly 80 bbls being recovered via vacuum truck.

A diagram of the location including sample points and soil boring locations can be reviewed in Appendix I of this report. The surface soil at this location is light brown to brown sand and near white caliche. There is not a water source within 1,000 feet of this site. Based on the data from the Eddy County Groundwater Map, the depth to groundwater in Section 15, Township 25 South, and Range 28 East is less than or close to 50 feet. The initial C-141 for this leak is located in Appendix III of this report.

2.0 SITE INVESTIGATION ACTIVITIES

After initial spill response activities had been conducted by COG, BBC personnel conducted a delineation of the site on July 5, 2012. Five sample points were taken in the leak area at the surface and at 3 feet for SP1 and 1.5 feet for the other four sample points. The samples were taken to Cardinal Laboratories for chloride analysis. At SP1, the chloride results were 65,600 mg/Kg at the surface and 3,520 mg/Kg at 3 feet. At SP2, the chloride results at the surface were 55,200 mg/Kg and 26,400mg/Kg at 1.5 feet. The chloride results for SP3 were 84,000 mg/Kg at the surface and 12,800 mg/Kg at 1.5 feet. At SP4, the surface chloride results were 51,200 mg/Kg and the results at 1.5 feet were 16,200 mg/Kg. The chloride results for SP5 were 48,800 mg/Kg at the surface and 7,440 mg/Kg at 1.5 feet. Upon review of the laboratory results, it was determined that further sampling was warranted. Therefore, additional samples were taken at 5 feet, 7 feet, and 8 feet at SP1 and at 3 feet, 5 feet, and 7 feet at SP2 on July 23, 2012. The samples were taken to Cardinal Laboratories for chloride analysis. At SP1, the results were 3,040 mg/Kg at 5 feet, 608 mg/Kg at 7 feet, and 176 mg/Kg

at 8 feet. The chloride results for SP2 were 7,860 mg/Kg at 3 feet, 9,200 mg/Kg at 5 feet, and 4,560 mg/Kg at 7 feet. On July 31, 2012 additional samples were taken at SP3 at 2 feet, at SP4 at 2 feet and 4 feet, and a sixth sample point was added to the sampling event. Samples at SP6 were advanced at the surface, 2 feet, and 3 feet. The samples were taken to Cardinal laboratories for chloride analysis. The results of this sampling event were 12,700 mg/Kg at the SP3 depth of 2 feet; 2,400 mg/Kg at the SP4 depth of 2 feet; and 1,520 mg/Kg at the SP4 depth of 4 feet. AT SP6, the results were 56,800 mg/Kg at the surface, 6,800 mg/Kg at 2 feet, and 4,240 mg/Kg at 3 feet. Upon review of the sample analysis results, it was determined that this site would need to be drilled and that some soil boring samples would need to be analyzed for BTEX, TPH, and chlorides. Three soil boring samples were taken at various depths and the samples were sent to Cardinal Laboratories for analyzing. The BTEX and TPH results for SB1, SB2, and SB3 at 10 feet were all reported as non-detectable. At SB1, the chloride results were 2,400 mg/Kg at 4 feet, 1,820 mg/Kg at 5 feet, 480 mg/Kg at 10 feet, 400 mg/Kg at 15 feet, 240 mg/Kg at 20 feet, and 96 mg/Kg at 25 feet. The chloride results for SB2 were 1,300 mg/Kg at 5 feet, 112 mg/Kg at 10 feet, and 160 mg/Kg at 15 feet. At SB3, the chloride results at 10 feet were 2,400 mg/Kg, at 15 feet 816 mg/Kg, at 20 feet 144 mg/Kg, and at 25 feet 160 mg/Kg. The results of the analysis are located in Appendix II of this report. The sample point and soil boring locations can be viewed on the site diagram in Appendix I of this report.

3.0 CONCLUSION AND RECOMMENDATION

On April 9, 2013, BBC personnel sent a proposed remediation plan to Mike Bratcher of NMOCD. Mike Bratcher approved the plan via email on May 8, 2013. Remediation correspondence is located in Appendix IV of this report.

In accordance with the approved remediation plan, excavation was completed by hand to an approximate depth of 2 feet across the entire leak site, depending on ground hardness. Then a one foot thick clay liner was installed and the site was backfilled with the appropriate clean material.

Thus, BBC requests closure of the site since all remediation activities have been completed as described in the approved plan. Also, a final C-141 is located in Appendix III of this report.

APPENDIX I

Site Diagram

July 2012

Chicken Hawk State #1 (06/26/2012)

Unit A, Section 15, Township 25 South, Range 28 East
Eddy County, NM
GPS: N 32 08.236 W 104 04.079

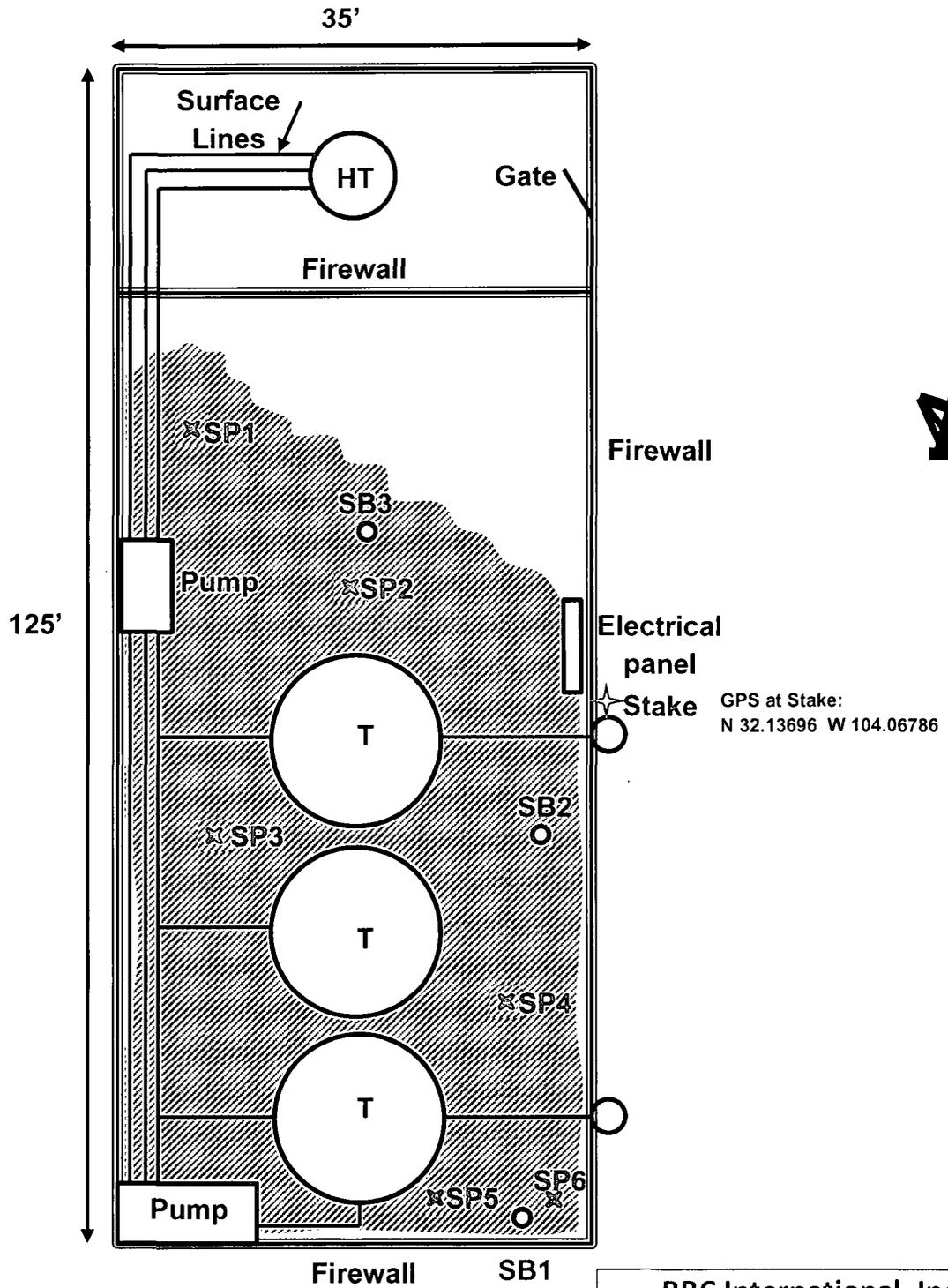
Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.



COG

Chicken Hawk State #1



GPS at Stake:
N 32.13696 W 104.06786

BBC International, Inc.

COG

Chicken Hawk State #1

Date: 07/06/2012

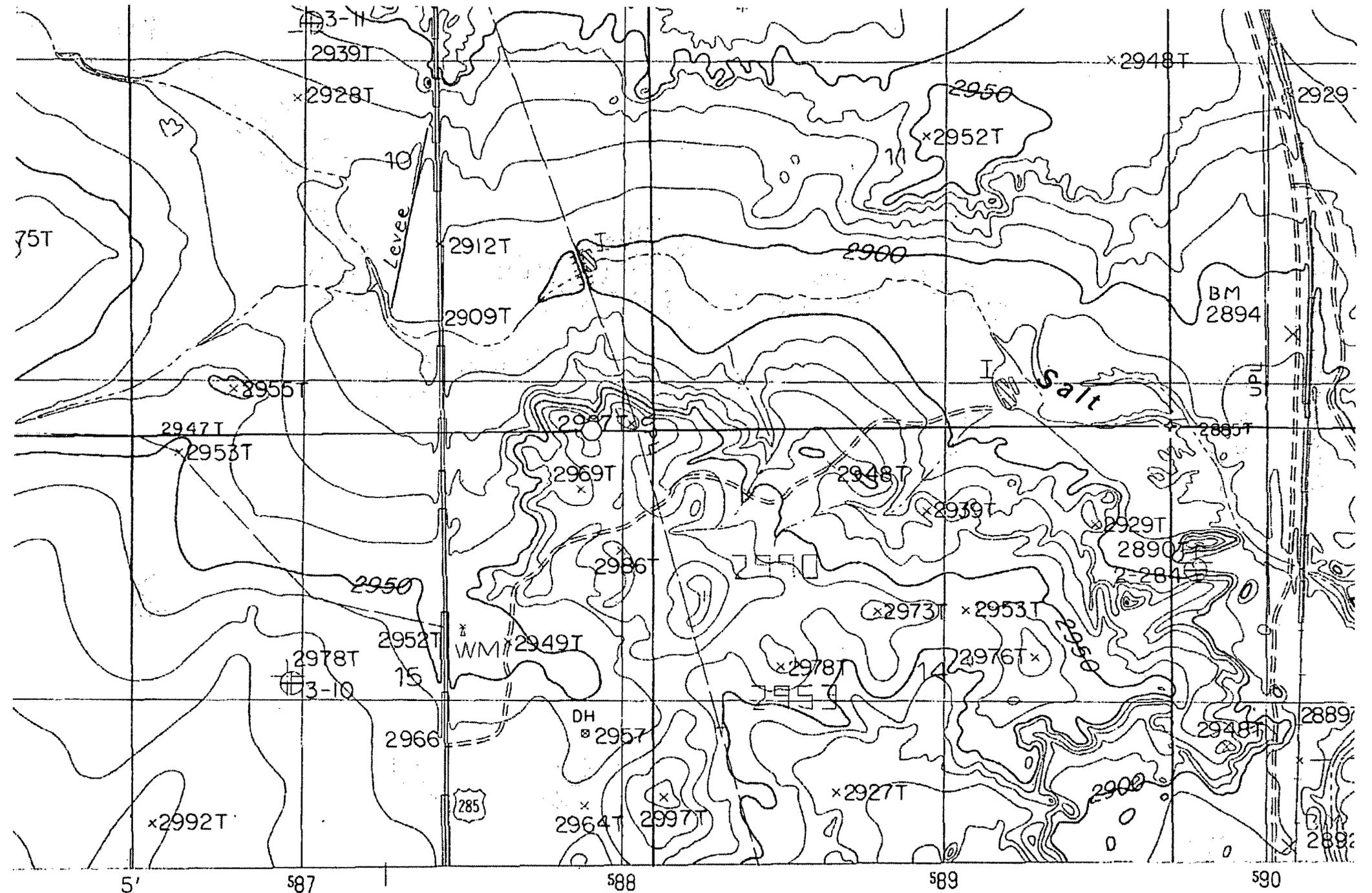
DRWG by: K. Purvis

NOT TO SCALE

File: COG 2012

U/L A, Section 15, T25S, R28E
Eddy County, NM
API#30-015-33682

COG Operating Chicken Hawk State #1



SCALE 1:24 000

Groundwater Plot

COG Chicken Hawk State #1

County
Eddy

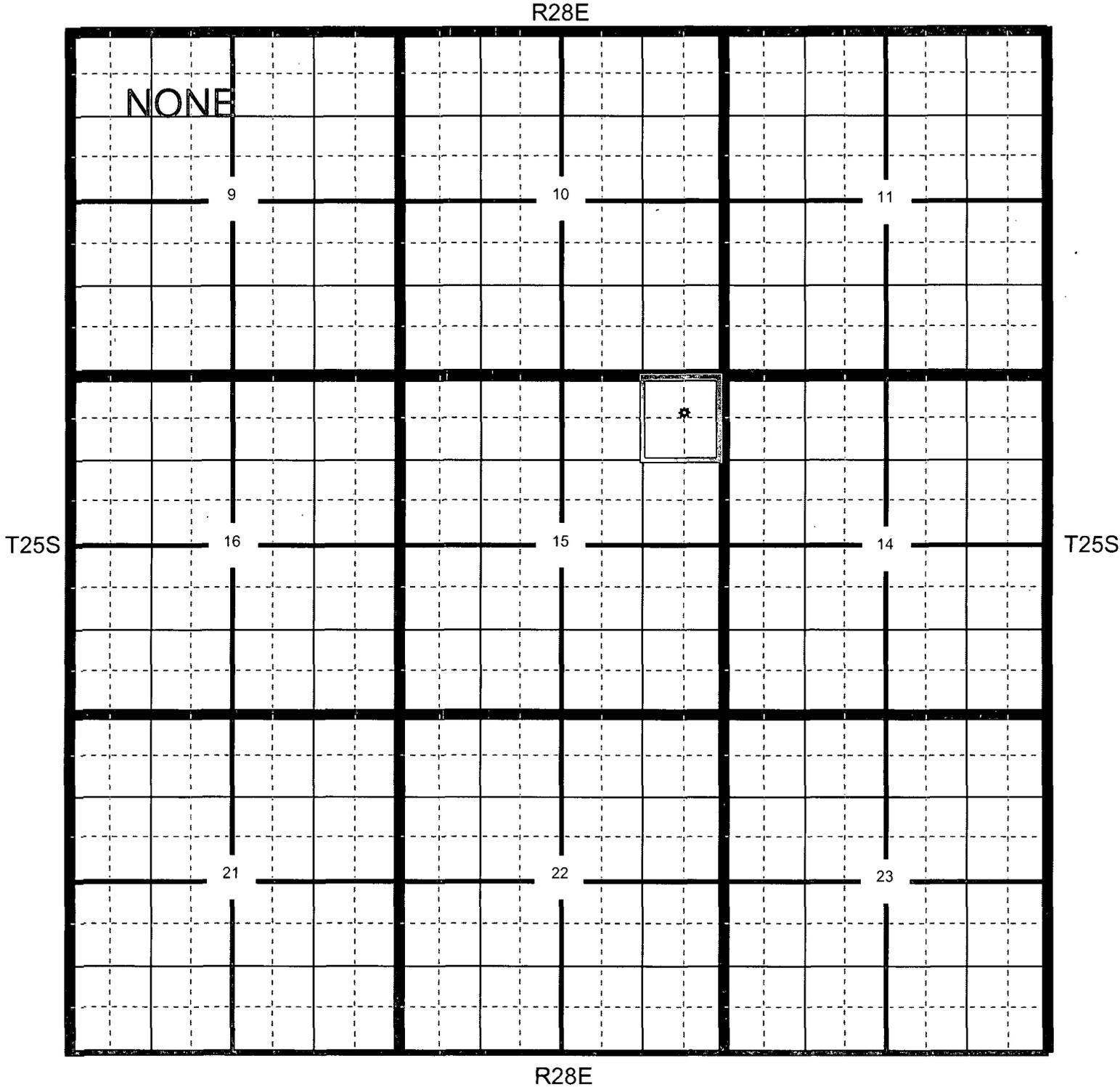
Unit Letter
A

Section
15

Township
25S

Range
28E

Trend Map <50'



COG Chicken Hawk State #1

County Eddy Unit Letter A Section 15 Township 25S Range 28E

Trend Map <50'

1

2

NW/NW NONE 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	SE/SE Unit Letter P

3

4

APPENDIX II

Laboratory Analytical Results

July 2012 and February 2013

Chicken Hawk State #1 (06/26/2012)

Unit A, Section 15, Township 25 South, Range 28 East
Eddy County, NM
GPS: N 32 08.236 W 104 04.079

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

**Laboratory Analytical Results Summary
COG, Chicken Hawk State #1**

		Sample	SP1 @ SURFACE	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 8'
Analyte	Method	Date	7/5/12	7/5/12	7/23/12	7/23/12	7/23/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		65600	3520	3040	608	176

		Sample	SP2 @ SURFACE	SP2 @ 1.5'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'
Analyte	Method	Date	7/5/12	7/5/12	7/23/12	7/23/12	7/23/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		55200	26400	7860	9200	4560

		Sample	SP3 @ SURFACE	SP3 @ 1.5'	SP3 @ 2'
Analyte	Method	Date	7/5/12	7/5/12	7/31/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		84000	12800	12700

		Sample	SP4 @ SURFACE	SP4 @ 1.5'	SP4 @ 2'	SP4 @ 4'
Analyte	Method	Date	7/5/12	7/5/12	7/31/12	7/31/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		51200	16200	2400	1520

		Sample	SP5 @ SURFACE	SP5 @ 1.5'
Analyte	Method	Date	7/5/12	7/5/12
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		48800	7440

		Sample	SP6 @ SURFACE	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	7/31/12	7/31/12	7/31/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		56800	6800	4240

Laboratory Analytical Results Summary
Chicken Hawk State #1, Soil Boring Data

		Sample	SB1 @ 4'	SB1 @ 5'	SB1 @ 10'	SB1 @ 15'	SB1 @ 20'	SB1 @ 25'
Analyte	Method	Date	2/26/13	2/26/13	2/26/13	2/26/13	2/26/13	2/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		N/A	N/A	<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		N/A	N/A	<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		N/A	N/A	<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		N/A	N/A	<0.150	N/A	N/A	N/A
Total BTEX	BTEX 8021B		N/A	N/A	<0.300	N/A	N/A	N/A
Chloride	SM4500CI-B		2400	1820	480	400	240	96
GRO	TPH 8015M		N/A	N/A	<10.0	N/A	N/A	N/A
DRO	TPH 8015M		N/A	N/A	<10.0	N/A	N/A	N/A

		Sample	SB2 @ 5'	SB2 @ 10'	SB2 @ 15'
Analyte	Method	Date	2/26/13	2/26/13	2/26/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		N/A	<0.050	N/A
Toluene	BTEX 8021B		N/A	<0.050	N/A
Ethylbenzene	BTEX 8021B		N/A	<0.050	N/A
Total Xylenes	BTEX 8021B		N/A	<0.150	N/A
Total BTEX	BTEX 8021B		N/A	<0.300	N/A
Chloride	SM4500CI-B		1300	112	160
GRO	TPH 8015M		N/A	<10.0	N/A
DRO	TPH 8015M		N/A	<10.0	N/A

		Sample	SB3 @ 10'	SB3 @ 15'	SB3 @ 20'	SB3 @ 25'
Analyte	Method	Date	2/26/13	2/26/13	2/26/13	2/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	N/A	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	N/A	N/A	N/A
Chloride	SM4500CI-B		2400	816	144	160
GRO	TPH 8015M		<10.0	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	N/A	N/A	N/A



July 11, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CHICKEN HAWK STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 07/06/12 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 "Hope S. Moreno". The signature is written in a cursive style with a large, stylized "H" and "M".

Hope Moreno

Inorganic Technical Director

Analytical Results For:

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

Received:	07/06/2012	Sampling Date:	07/05/2012
Reported:	07/11/2012	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 1 @ SURFACE (H201544-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	65600	16.0	07/10/2012	ND	400	100	400	0.00		

Sample ID: SP 1 @ 3' (H201544-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	07/10/2012	ND	400	100	400	0.00		

Sample ID: SP 2 @ SURFACE (H201544-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	55200	16.0	07/10/2012	ND	400	100	400	0.00		

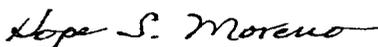
Sample ID: SP 2 @ 1.5' (H201544-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26400	16.0	07/10/2012	ND	400	100	400	0.00		

Cardinal Laboratories

* = Accredited Analyte

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

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

 Received: 07/06/2012
 Reported: 07/11/2012
 Project Name: CHICKEN HAWK STATE #1
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

 Sampling Date: 07/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H201544-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	84000	16.0	07/10/2012	ND	400	100	400	0.00		

Sample ID: SP 3 @ 1.5' (H201544-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12800	16.0	07/10/2012	ND	400	100	400	0.00		

Sample ID: SP 4 @ SURFACE (H201544-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	51200	16.0	07/10/2012	ND	400	100	400	0.00		

Sample ID: SP 4 @ 1.5' (H201544-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16200	16.0	07/10/2012	ND	400	100	400	3.92		

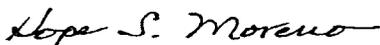
Sample ID: SP 5 @ SURFACE (H201544-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48800	16.0	07/10/2012	ND	400	100	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

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

Received:	07/06/2012	Sampling Date:	07/05/2012
Reported:	07/11/2012	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

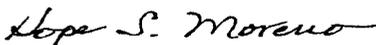
Sample ID: SP 5 @ 1.5' (H201544-10)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	07/10/2012	ND	400	100	400	3.92	

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*=Accredited Analyte

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Hope Moreno, Inorganic Technical Director

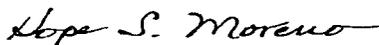
Notes and Definitions

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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Hope Moreno, Inorganic Technical Director

July 27, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CHICKEN HAWK STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 07/25/12 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,



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:	07/25/2012	Sampling Date:	07/23/2012
Reported:	07/27/2012	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	MALAGA, NM		

Sample ID: SP 1 @ 5' (H201715-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	07/26/2012	ND	400	100	400	7.69		

Sample ID: SP 1 @ 7' (H201715-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	07/26/2012	ND	400	100	400	7.69		

Sample ID: SP 1 @ 8' (H201715-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/26/2012	ND	400	100	400	7.69		

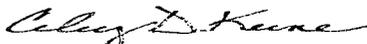
Sample ID: SP 2 @ 3' (H201715-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7860	16.0	07/26/2012	ND	400	100	400	7.69		

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: (505) 397-0397

Received:	07/25/2012	Sampling Date:	07/23/2012
Reported:	07/27/2012	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	MALAGA, NM		

Sample ID: SP 2 @ 5' (H201715-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9200	16.0	07/26/2012	ND	400	100	400	7.69		

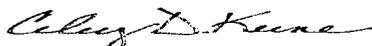
Sample ID: SP 2 @ 7' (H201715-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	07/26/2012	ND	400	100	400	7.69		

Cardinal Laboratories

* = Accredited Analyte

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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

August 06, 2012

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

RE: CHICKEN HAWK STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 08/01/12 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,



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:	08/01/2012	Sampling Date:	07/31/2012
Reported:	08/06/2012	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 3 @ 2' (H201793-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12700	16.0	08/03/2012	ND	400	100	400	3.92		

Sample ID: SP 4 @ 2' (H201793-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	08/03/2012	ND	400	100	400	3.92		

Sample ID: SP 4 @ 4' (H201793-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	08/03/2012	ND	400	100	400	3.92		

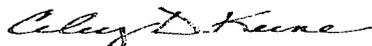
Sample ID: SP 6 @ SURFACE (H201793-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	56800	16.0	08/03/2012	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: (505) 397-0397

Received:	08/01/2012	Sampling Date:	07/31/2012
Reported:	08/06/2012	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 6 @ 2' (H201793-05)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	08/03/2012	ND	400	100	400	3.92	

Sample ID: SP 6 @ 3' (H201793-06)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	08/03/2012	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



CARDINAL 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:																																																																																																																																																	
Project #: Project Owner: <i>Concho</i>		City:																																																																																																																																																	
Project Name: <i>Chicken Hawk State #1</i>		State: Zip:																																																																																																																																																	
Project Location: <i>Waterbury, WA</i>		Phone #:																																																																																																																																																	
Sampler Name: <i>SPC 00175</i>		Fax #:																																																																																																																																																	
FOR LAB USE ONLY												61																																																																																																																																							
<table border="1"> <thead> <tr> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">(G/RAB OR (C)OMP. # CONTAINERS</th> <th colspan="5">MATRIX</th> <th colspan="3">PRESERV.</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER:</th> <th>ACID/BASE:</th> <th>ICE / COOL</th> <th>OTHER:</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>H201793</td> <td></td> </tr> <tr> <td>1</td> <td>SP03 @ 2'</td> <td>C-1</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>7-31</td> <td>909</td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>SP04 @ 2'</td> <td>C-1</td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>100</td> <td>X</td> <td></td> </tr> <tr> <td>3</td> <td>SP04 @ 4'</td> <td>C-1</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td>195</td> <td>✓</td> <td></td> </tr> <tr> <td>4</td> <td>SP06 @ 5' Int.</td> <td>C-1</td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>202</td> <td>X</td> <td></td> </tr> <tr> <td>5</td> <td>SP06 @ 2'</td> <td>C-1</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>241</td> <td>X</td> <td></td> </tr> <tr> <td>6</td> <td>SP06 @ 3'</td> <td>C-1</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>303</td> <td>X</td> <td></td> </tr> </tbody> </table>														Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	H201793																1	SP03 @ 2'	C-1		X						✓	7-31	909	✓			2	SP04 @ 2'	C-1		✓						X			100	X		3	SP04 @ 4'	C-1		X						+			195	✓		4	SP06 @ 5' Int.	C-1		✓						X			202	X		5	SP06 @ 2'	C-1		X						X			241	X		6	SP06 @ 3'	C-1		X						X			303
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING																																																																																																																																								
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Relinquished By: <i>[Signature]</i>	Date: <i>8-1-12</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>3:45</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:		
Sampler - UPS - Bus - Other: <i>50</i>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <i>[Signature]</i>		

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

#26

March 05, 2013

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

RE: CHICKEN HAWK STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/27/13 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,



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:	02/27/2013	Sampling Date:	02/26/2013
Reported:	03/05/2013	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SB 1 @ 4' (H300511-01)

Chloride, SM4500CI-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	03/01/2013	ND	432	108	400	0.00	

Sample ID: SB 1 @ 5' (H300511-02)

Chloride, SM4500CI-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1820	16.0	03/01/2013	ND	432	108	400	0.00	

Sample ID: SB 1 @ 10' (H300511-03)

BTEX 8021B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2013	ND	1.98	98.9	2.00	2.34	
Toluene*	<0.050	0.050	03/04/2013	ND	2.10	105	2.00	1.71	
Ethylbenzene*	<0.050	0.050	03/04/2013	ND	2.11	106	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/04/2013	ND	6.39	106	6.00	1.43	
Total BTEX	<0.300	0.300	03/04/2013	ND					

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

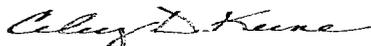
Chloride, SM4500CI-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/01/2013	ND	432	108	400	0.00	

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

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:	02/27/2013	Sampling Date:	02/26/2013
Reported:	03/05/2013	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SB 1 @ 10' (H300511-03)

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	03/01/2013	ND	227	114	200	15.8		
DRO >C10-C28	<10.0	10.0	03/01/2013	ND	224	112	200	18.0		
<i>Surrogate: 1-Chlorooctane</i>	<i>97.7 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>105 %</i>	<i>63.6-154</i>								

Sample ID: SB 1 @ 15' (H300511-04)

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/01/2013	ND	432	108	400	0.00		

Sample ID: SB 1 @ 20' (H300511-05)

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/01/2013	ND	432	108	400	0.00		

Sample ID: SB 1 @ 25' (H300511-06)

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/01/2013	ND	416	104	400	0.00		

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:	02/27/2013	Sampling Date:	02/26/2013
Reported:	03/05/2013	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SB 2 @ 5' (H300511-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	03/01/2013	ND	416	104	400	0.00		

Sample ID: SB 2 @ 10' (H300511-08)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2013	ND	1.98	98.9	2.00	2.34		
Toluene*	<0.050	0.050	03/04/2013	ND	2.10	105	2.00	1.71		
Ethylbenzene*	<0.050	0.050	03/04/2013	ND	2.11	106	2.00	1.41		
Total Xylenes*	<0.150	0.150	03/04/2013	ND	6.39	106	6.00	1.43		
Total BTEX	<0.300	0.300	03/04/2013	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/01/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/01/2013	ND	227	114	200	15.8		
DRO >C10-C28	<10.0	10.0	03/01/2013	ND	224	112	200	18.0		

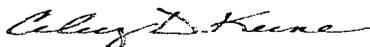
Surrogate: 1-Chlorooctane 94.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

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:	02/27/2013	Sampling Date:	02/26/2013
Reported:	03/05/2013	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SB 2 @ 15' (H300511-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/01/2013	ND	416	104	400	0.00		

Sample ID: SB 3 @ 10' (H300511-10)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2013	ND	1.98	98.9	2.00	2.34		
Toluene*	<0.050	0.050	03/04/2013	ND	2.10	105	2.00	1.71		
Ethylbenzene*	<0.050	0.050	03/04/2013	ND	2.11	106	2.00	1.41		
Total Xylenes*	<0.150	0.150	03/04/2013	ND	6.39	106	6.00	1.43		
Total BTEX	<0.300	0.300	03/04/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	03/01/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/01/2013	ND	227	114	200	15.8		
DRO >C10-C28	<10.0	10.0	03/01/2013	ND	224	112	200	18.0		

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.9 % 63.6-154

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:	02/27/2013	Sampling Date:	02/26/2013
Reported:	03/05/2013	Sampling Type:	Soil
Project Name:	CHICKEN HAWK STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SB 3 @ 15' (H300511-11)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	03/01/2013	ND	416	104	400	0.00	

Sample ID: SB 3 @ 20' (H300511-12)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/01/2013	ND	416	104	400	0.00	

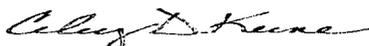
Sample ID: SB 3 @ 25' (H300511-13)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/01/2013	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

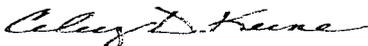
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celest 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

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:																			
Project #:		Project Owner: <i>Concho</i>		City:																			
Project Name: Chicken Hawk State #1				State:																Zip:			
Project Location:				Phone #:																			
Sampler Name:				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.				MATRIX		PRESERV.		SAMPLING		<i>Chloride</i> <i>BTEX</i> <i>TPH</i>											
		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		DATE						TIME							
<i>H300511</i>																							
<i>10</i>		SB3 @ 10'		<i>5</i>						2-26-13						11:15 am							
<i>11</i>		SB3 @ 15'		<i>5</i>						2-26-13						11:30 am							
<i>12</i>		SB3 @ 20'		<i>5</i>						2-26-13						11:45 am							
<i>13</i>		SB3 @ 25'		<i>5</i>						2-26-13		12:00 pm											

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Relinquished By: <i>[Signature]</i>		Date: <i>2-27-13</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <i>9:00</i>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: <i>2-27-13</i>		Received By: <i>Jodi Jensen</i>		REMARKS:			
Time: <i>9:10</i>									
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)			
				Yes <input type="checkbox"/> No <input type="checkbox"/>		<i>[Signature]</i>			

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

#26

APPENDIX III

C-141

June 2012 and June 2013

Chicken Hawk State #1 (06/26/2012)

Unit A, Section 15, Township 25 South, Range 28 East
Eddy County, NM
GPS: N 32 08.236 W 104 04.079

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	COG OPERATING LLC	Contact	Pat Ellis
Address	600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Chicken Hawk State #1	Facility Type	Tank Battery
Surface Owner	State	Mineral Owner	API No. 30-015-33682

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	15	25S	28E					Eddy

Latitude N 32 08.236

Longitude W 104 04.079

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	85bbbls	Volume Recovered	80bbbls
Source of Release	Produced water tank	Date and Hour of Occurrence	06/26/2012	Date and Hour of Discovery	06/26/2012 @ 8:40 am
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?	Michelle Mullins	Date and Hour	06/26/2012 @ 3:12 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

RECEIVED
AUG 13 2013
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The produced water tank at the Chicken Hawk State Tank Battery overflowed due to an electrical problem that did not allow the high level alarm to be sent out. Electricians repaired the problem.

Describe Area Affected and Cleanup Action Taken.*
Initially roughly 85bbbls of produced water was released from the water tank and we were able to recover 80bbbls with a vacuum truck. The entire release was completely contained inside the dike walls of the tank battery. The spill measured approximately 20' x 40'. Remediation was completed in accordance with a remediation plan approved by Mike Bratcher of NMOCD via email on 05/08/2013.

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:		Approved by Environmental Specialist:	
Printed Name:	Robert Grubbs Jr.	Approval Date:	Expiration Date:
Title:	Senior Environmental Coordinator	Conditions of Approval:	
E-mail Address:	rgrubbs@concho.com	Attached <input type="checkbox"/>	
Date:	06-17-2013	Phone:	432-661-6601

* 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	Chicken Hawk State #1	Facility Type	Tank Battery

Surface Owner	State	Mineral Owner	Lease No. (API#) 30-015-33682
---------------	-------	---------------	-------------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	15	25S	28E					Eddy

Latitude 32 08.236 Longitude 104 04.079

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	85bbbls	Volume Recovered	80bbbls
Source of Release	Produced water tank	Date and Hour of Occurrence	06/26/2012	Date and Hour of Discovery	06/26/2012 8:40 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?	Michelle Mullins	Date and Hour	03/26/2012 3:12 p.m.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

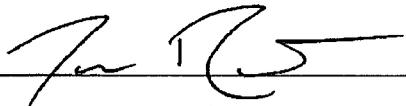
RECEIVED
AUG 13 2013
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The produced water tank at the Chicken Hawk State Tank Battery overflowed due to an electrical problem that did not allow the high level alarm to be sent out. Electricians have been called out to the facility to correct the problem.

Describe Area Affected and Cleanup Action Taken.*
Initially roughly 85bbbls of produced water was released from the water tank and we were able to recover 80bbbls with a vacuum truck. The entire release was completely contained inside the dike walls of the tank battery. The spill area measured approximately 20' x 40'. BBC International Inc. will sample the spill site area to delineate any possible contamination from the release and we will present a remediation 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:	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:	06/29/2012	Phone:	432-212-2399

* Attach Additional Sheets If Necessary

APPENDIX IV

Correspondence

May 2013

Chicken Hawk State #1 (06/26/2012)

Unit A, Section 15, Township 25 South, Range 28 East
Eddy County, NM
GPS: N 32 08.236 W 104 04.079

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Wednesday, May 08, 2013 11:33 AM
To: Cliff P. Brunson
Cc: Josh Russo; Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: Concho-Chicken Hawk State #1-Remediation Plan

Reference: COG * Chicken Hawk St 1 * 30-015-33682 * A-15-25s-28e * Eddy County, New Mexico
OCD Tracking Number: 2RP-1213 * Date of release: 6/26/12

Cliff,

Your proposal for remediation of the above referenced release is approved. Please notify OCD prior to commencement of remedial activities. OCD may require further delineation in the area marked SP3 upon decommission of the tank battery.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notifications, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Tuesday, April 09, 2013 6:32 PM
To: Bratcher, Mike, EMNRD
Cc: Josh Russo; Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Concho-Chicken Hawk State #1-Remediation Plan

Mike,

This e-mail is to confirm our discussion on March 25, 2013 concerning the remediation plan for the release that occurred at the Concho Chicken Hawk State #1. I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Concho will hand excavate 2 feet across the entire leak area at the site dependent upon ground hardness. A one foot thick clay liner will then be installed and the site will then be backfilled with appropriate clean material for inside the battery area. The depth to groundwater in this area is approximately 50 feet.

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

Concho and I thank you for your assistance in handling this matter.

Thanks, Cliff

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

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