SITE INFORMATION Report Type: Closure Report

RECEIVED

AUG 13 2013

NMOCD ARTESIA

General Site Information:				NMOCD ARTESIA	
Site:	Chicken Ha	awk State #1	<u> </u>		
Company:	COG Opera	ating LLC			
Section, Township, and Range:	15	25S	38E		
Lease Number:	API# 30-0	15-33682	•		
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 failu	ire caused p	roduced w	ater tank to overflow	
Fluid Released:	85 bbls				
Fluids Recovered:	80 bbls				
Official Communication:				We de the same	
Name:	Pat Ellis			Cliff Brunson	
Company:	COG Oper	ating LLC		BBC International, Inc.	
Address:	550 W. Te	xas Ave., Ste	e. 1300	1324 W. Marland	
PO Box:				PO Box 805	
City, State, Zip Code:	Midland, T	X 79701		Hobbs, NM 88241	
Phone Number:	(432) 686-	3023		(575) 397-6388	
Fax:	(432) 684-	7137		(575) 397-0397	
Email:	pellis@cor	nchoresourc	es.com	cbrunson@bbcinternational.com	
Ranking Criteria:					
Depth to Groundwater:	R	anking Sco	re	Site Data	
<50 ft.		20		20	
50-99 ft.		10			
>100 ft.		0			
Well Head Protection:	R	anking Sco	re	Site Data	
Water Source <1,000 ft., Private <200		20			
Water Source >1,000 ft., Private >200	l	0		0	
Surface Body of Water:	R	anking Sco	re	Site Data	
<200 ft.		20			
200 ft 1,000 ft.		10			
>1,000 ft.		0		0	
Total Ranking Score:		20]	

Acceptable Soil RRAL (mg/kg)								
Benzene Total BTEX TPH								
10								



RECEIVED
AUG 1 3 2013
NMOCD ARTESIA

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)

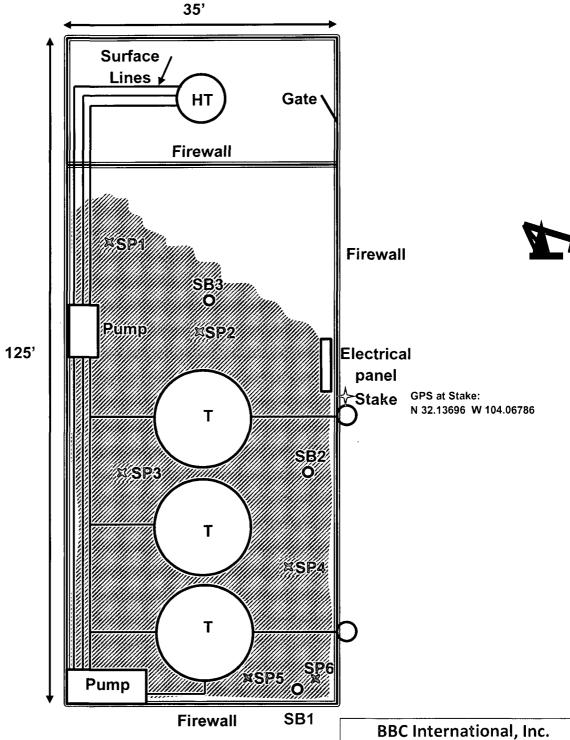
Unit A, Section 15, Township 25 South, Range 28 East Eddy County, NM GPS: N 32 08.236 W 104 04.079

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.

COG

Chicken Hawk State #1



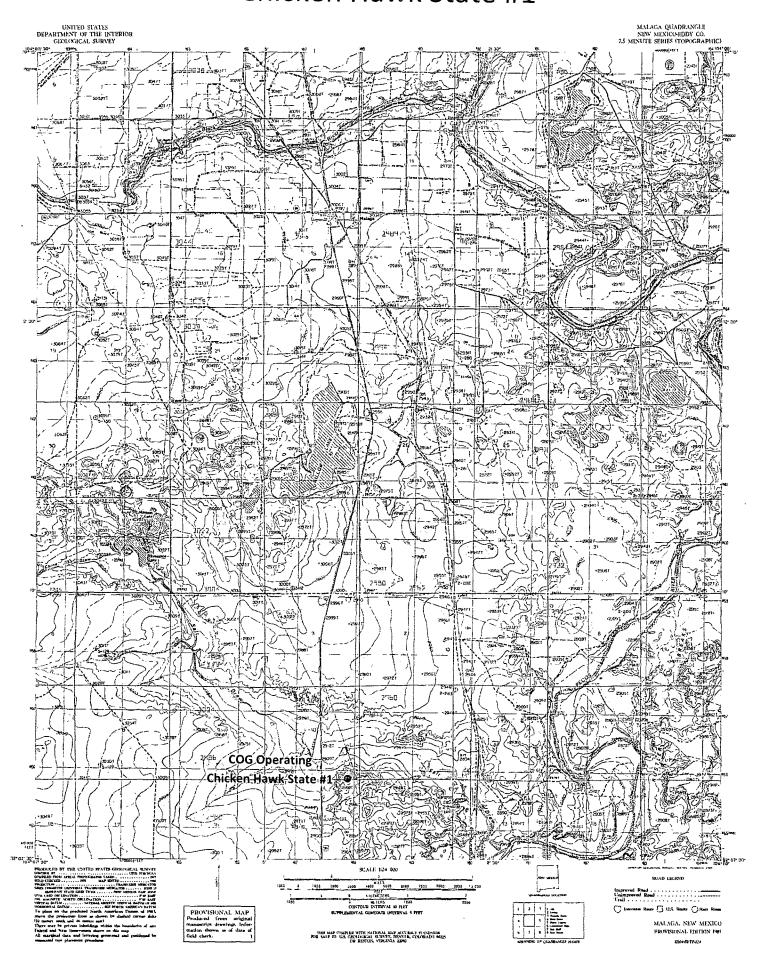
U/L A, Section 15, T25S, R28E **Eddy County, NM** API#30-015-33682

COG

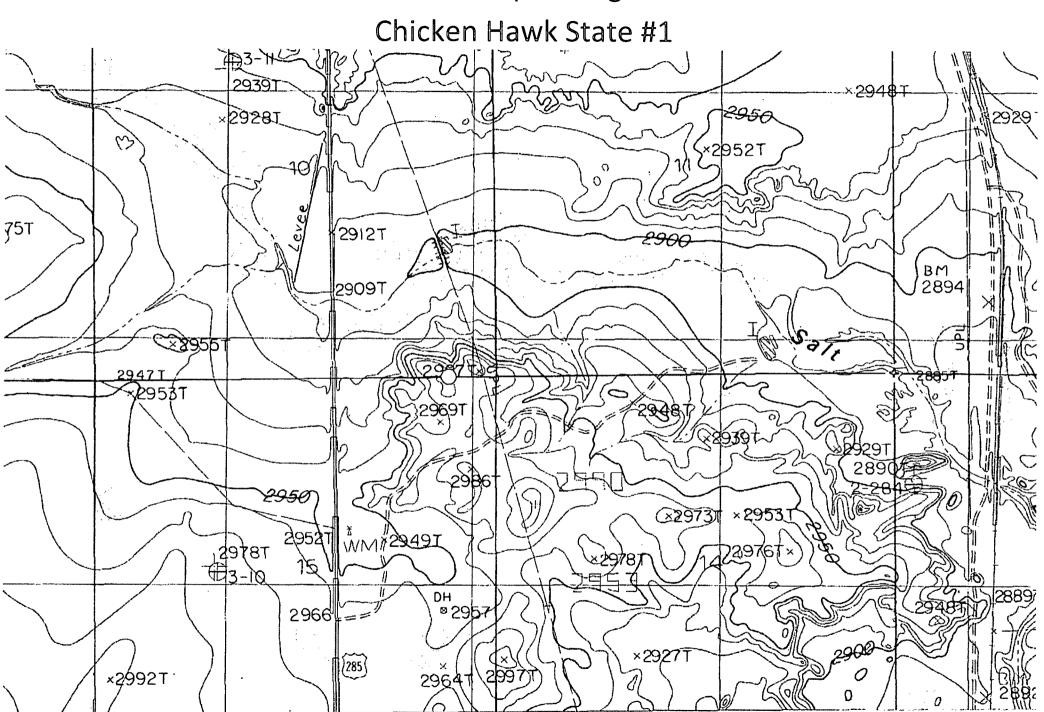
Chicken Hawk State #1

Date: 07/06/2012 DRWG by: K. Purvis NOT TO SCALE File: COG 2012

COG Operating Chicken Hawk State #1



COG Operating



588

587

5'

589

590

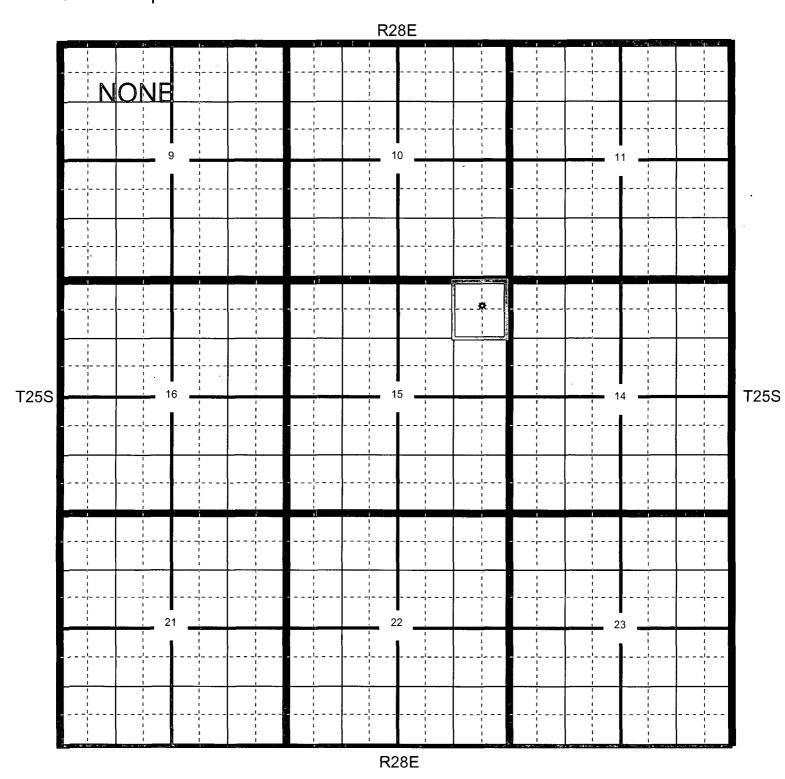


Groundwater Plot

COG Chicken Hawk State #1

CountyUnit LetterSectionTownshipRangeEddyA1525S28E

Trend Map <50'



♣ Location

OCD

○USGS

○ SEO

All Databases



Section Quarters

COG Chicken Hawk State #1

County Eddy Unit Letter

Section 15 Township 25\$ Range 28E

Trend Map

<50'

1

2

	• • • • • • • • • • • • • • • • • • • •		
NW/NW	NE/NW	N₩∤NE	NE/NE
NONE	1	1 1 1	
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Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
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		1 1 1	! ! !
Unit Letter E	; Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE,SE
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Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
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Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P
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3

4

♣ Location

o OCD

o USGS

O SEO

All Databases

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	SM4500CI-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	SM4500CI-B		55200	26400	7860	9200	4560

		Sample	SP3 @ SURFACE	SP3 @ 1.5'	ŚĒ3 @ 2'
Analyte	Method	Date	7/5/12	7/5/12	7/31/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-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	SM4500CI-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	SM4500CI-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	SM4500CI-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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Lope S. Moreno

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,

Hope Moreno

Inorganic Technical Director



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)

Chi	lori	do	SM	45	nn	cı	_R

mg/kg

Analyzed By: AP

Analyte

Analyzed

Method Blank

% Recovery

True Value QC

RPD

0.00

Chloride

Result 65600

Result

3520

16.0

Reporting Limit

07/10/2012

ND

BS 400

100

400

Qualifier

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

Chloride, SM4500Cl-B

16.0

16.0

Reporting Limit

16.0

Analyzed By: AP

Chloride

mg/kg

Reporting Limit

Analyzed 07/10/2012

07/10/2012

Analyzed

07/10/2012

Method Blank ND

BS 400 % Recovery 100

True Value QC

400

RPD

Qualifier

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

Analyzed By: AP

Analyte

Analyte

Result

Reporting Limit Analyzed Method Blank

ND

BS 400

% Recovery 100

True Value QC

400

400

RPD

0.00

0.00

Qualifier

Chloride

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

Result

26400

55200

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Chloride

Method Blank

ND

400

100

% Recovery True Value QC

RPD 0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Lope S. Moreno Hope Moreno, Inorganic Technical Director



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 3 @ SURFACE (H201544-05)

Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	84000	16.0	07/10/2012	ND	400	100	400	0.00	
Sample ID: SP 3 @ 1.5' (• •								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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 @ SURI Chloride, SM4500CI-B	FACE (H20154-	•	Analyze	d 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, SM4500CI-B	mg,	/kg	Analyze	d 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 @ SUR	FACE (H20154	4-09)							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	07/10/2012	ND	400	100	400	3.92	

Cardinal Laboratories *=Accredited Analyte

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Lope S. Moreno

Hope Moreno, Inorganic Technical Director



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, SM4500CI-B Analyzed By: AP mg/kg

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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Lope S. Moreno



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 S. Moreno



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	6																						
Company Name	BBC International, Inc.									B	IL	4 70	建于强星					ANA	LYSI	S RE	QUE	ST		
Project Manage	r: Cliff Brunson							P.O																
Address: P.O.	Box 805							Cor	npa	ny:														
City: Hobbs	State: NM	Zip	: 8	824	1			Attr	n:										1					
Phone #: 575-3	397-6388 Fax #: 575	-39	7-03	97				Add	dres	ss:														
Project #:	Project Owner	:						City	/ :															
Project Name: (Chicken Hawk State #1							Sta	te:			Zip:												
Project Location	n: Malaga, NM							Pho	one	#:														İ
Sampler Name:	Jeff Ornelas							Fax	#:										İ					
FOR LAB USE ONLY					M/	\TRI	K .		PRE	SER	⊻[.	SAMPL	ING	1 、										
Lab I.D. H201544	Sample I.D.	(G)RAB OR (C)OMP		GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OIHEK:	DATE	TIME	Chloride										
	SP1 @ SURFACE	Ç,			U					1		7/5/12	1:15 PM	✓									 	
2	SP1 @ 3'	(.,	L		~	4_				1		7/5/12	1:51 PM	✓									 	
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

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

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(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: Project Location:

NONE GIVEN MALAGA, NM

Sample Received By:

Amanda Ponce

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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' (H2	201715-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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' (H2	201715-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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' (H2	201715-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or 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.

Celeg & Keene



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:

Analyte

MALAGA, NM

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Method Blank

ND

BS % Recovery

True Value QC

Qualifier

Chloride

Result 9200

16.0

Reporting Limit

07/26/2012

Analyzed

100

400

400

RPD 7.69

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Reporting Limit Analyte Result Chloride 4560 16.0

Analyzed

07/26/2012

Method Blank ND

BS 400

400

% Recovery

100

True Value QC RPD

Qualifier

7.69

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 consequences. 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. Keine



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirry (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 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 claims 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.

Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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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 accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celeg & Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

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

Fax To:

(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 Type: 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	Analyze	d 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' (H	201793-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	08/03/2012	ND	400	100	400	3.92	
Sample ID: SP 4 @ 4' (H	201793-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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 @ SURI	FACE (H201793	3-04)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 & Keene



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:

Analyte

MALAGA, NM

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

% Recovery

100

True Value QC

3.92

3.92

Chloride

Chloride

Result 6800

4240

Reporting Limit 16.0

16.0

08/03/2012

Analyzed

ND

400

BS

BS

400

400

RPD Qualifier

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

Chloride, SM4500CI-B

Analyzed By: AP

Analyte Result Reporting Limit Analyzed

08/03/2012

Method Blank ND

Method Blank

% Recovery

100

True Value QC 400

RPD Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 claims 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 Jaboratomes.

Celey & Keene

RDINAL 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.									E	///	LTO	PERMIT	ğ.				AN	\LYS	SIS	RE	QUE	ST			
Project Manager	: Cliff Brunson							P.O). #:																	
Address: P.O.	Box 805							Cor	mpa	ıny:																<i>*</i> .
city: Hobbs	State: N	1 zij	p:	882	241			Attı	n:																,	
Phone #: 575-3		75-39						Add	dres	s: .	٠															
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 397-0397

Received:

02/27/2013

Sampling Date:

02/26/2013

Reported:

03/05/2013

Sampling Type:

Soil

Project Name:

CHICKEN HAWK STATE #1

Reporting Limit

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

MALAGA, NM

Sample Received By:

Jodi Henson

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

3

mg/kg

Analyzed By: DW

Analyte

Result

2400

16.0 03/01/2013

Analyzed

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

0.00

Qualifier

Chloride

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

Chloride, SM4500CI-B

mg/k	Ç
------	---

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)

RTFX 8021B

Analyzed By: AP

BILX 8021B	nig,	r k g	Allalyze	u by. Ar					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŠ	% 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 (PIL

Chi. 14. CM45000 B

113 %

89.4-126

Chloride, SM4500CI-B	mg/kg		Analyze	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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keine



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:

Surrogate: 1-Chlorooctadecane

MALAGA, NM

105 %

63.6-154

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	
Surrogate: 1-Chlorooctane	97.7	% 65.2-14	10			-			

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

Chloride, SM4500Cl-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' (H	300511-05)								
Chloride, SM4500Cl-B	mg.	/kg	Analyze	d By: DW					

Chloride, SM4500Cl-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	

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Celey & Keene



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

Project Location:

MALAGA, NM

Sample Received By:

Jodi Henson

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

Chloride,	SM4500CI-B	

Chloride, SM4500Cl-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)

TEX 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	% 89.4-12	6						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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

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Celeg D. Keine



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

Fax To:

(575) 397-0397

Received: Reported: 02/27/2013

03/05/2013

Project Name:

CHICKEN HAWK STATE #1

Project Number: Project Location: NONE GIVEN

MALAGA, NM

Sampling Date:

02/26/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Analyzed By: DW

Cilioride, 3M4300CI-B	1119	/kg	Allalyze	a by. bit					
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)

mg/	'kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/04/2013	ND	1.98	98.9	2.00	2.34	
< 0.050	0.050	03/04/2013	ND	2.10	105	2.00	1.71	
<0.050	0.050	03/04/2013	ND	2.11	106	2.00	1.41	
<0.150	0.150	03/04/2013	ND	6.39	106	6.00	1.43	
<0.300	0.300	03/04/2013	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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

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Celey & Keine



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: Project Location:

Analyte

Analyte

Analyte

NONE GIVEN MALAGA, NM Sample Received By:

Jodi Henson

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

mg/kg

Analyzed By: DW

BS % Recovery

416

True Value QC

Qualifier

Chloride

Result 816

16.0

Reporting Limit

Analyzed 03/01/2013 Method Blank ND

104

400

RPD 0.00

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

Chloride, SM4500Cl-B

Analyzed By: DW

% Recovery

Qualifier

Chloride

Chloride

Result 144

Result

160

Reporting Limit Analyzed 16.0 03/01/2013 Method Blank ND

ND

BS 416

104

True Value QC 400

True Value QC

400

RPD

0.00

0.00

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

Chloride, SM4500CI-B

mg/kg

Reporting Limit

16.0

Analyzed By: DW

Method Blank Analyzed

03/01/2013

BS

416

% Recovery

104

RPD

Qualifier

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Celey D. Keine Celey D. Keene, Lab Director/Quality Manager

Page 6 of 9



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

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Celey D. Keene

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	BBC International, Inc.						100	1372	B	ILLITO	調整。計劃的	i e				ANA	LYSIS	SRE	QUE	<u> </u>			
Project Manager: Cliff Brunson				P.C), #:																		
Address: P.O.	Box 805						Company:						ļ							ı İ	. 1		
City: Hobbs State: NM Zip: 88241				Attn:							ľ												
Phone #: 575-	397-6388 Fax # : 575	-397	-03	97			Ad	dres	s:						l								. 1
Project #:	Project Owne	r: (°	<u>-01</u>	ic h	()		Cit	у:						1									
Project Name: (Chicken Hawk State #1						Sta	ate:		Zip:		ĺ						i					
Project Location	1:						Ph	one	#:												i		
Sampler Name:							Fa	x #:				ر س			ļ								
FOR LAB USE ONLY		П	_		MATR	IX	,	PRE	SER	V. SAMP	ING	6 8	1		1								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWAIER	SOIL	SLUDGE .	OTHER:	ACID/BASE:	ICE / COOL	DATE	TIME	Chlerid	B72.X	HOL									
1	SB1 @ 4'	G			w/	- -	ـ بـــــــــــــــــــــــــــــــــــ		7		8:30 am	1											
	SB1 @ 5'	G	T	1		_				2-26-13	8:45 am	1				1						[]	
(3)	SB1 @ 10'	Ġ	Ī		1				7	2-26-13	9:00 am	1	✓	1									
U.	SB1 @ 15'	G	1		U				2	2-26-13	9:15 am	1							<u></u>				
5	SB1 @ 20'	G	1	- 🖵	w/_	_ _			<u>/</u> _	2-26-13	9:30 am	✓			<u> </u>	<u> </u>		<u> </u>	<u> </u>				<u> </u>
	SB1 @ 25'	G	1		<u>L</u>				4_		9:45 am	1		ļ	L	<u> </u>							,
4	SB2 @ 5'	<u>G</u>	1	_ _	1	.			<u> </u>		10:15 am	 ✓				·		ļ	<u> </u>	<u> </u>		<u> </u>	<u> </u>
3	SB2 @ 10'	<u>G</u>	<u> </u>	_	-	٠-	-				10:30 am	<u> </u>	-	✓		ļ							
્	SB2 @ 15'	G	1						+	2-26-13	10:45 am	1			ļ								.
analyses. All claims include service, in no event shall C	Time:	deemed of without Cardinal. Rec	waived Imitatio regardle : CIVE	unless m on, busin	ess interrection	iting an uptions,	d recei	ived by fuse, c	Cardina Lloss of	il within 30 days a profits incurred b	iter completion of to y client, its subsidia	ne applicanes, se. sult: It:	□ Ye		No No	Add'l	Phone Fax #:	#:		1			
Delivered By	(Circle One) - Bus - Other:	0	9	Co	iple C ol , in Yes [tact/		y		KED BY:	-												
-ump.or - 07 0		7	(-		No [ازبا	7 J/ N	1												

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

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. 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 Owner: Concho Project #: City: Project Name: Chicken Hawk State #1 State: Zip: Project Location: Phone #: Fax #: Sampler Name: FOR LAD USE ONLY PRESERV SAMPLING (G)RAB OR (C)OMP 7 CTSample I.D. Lab I.D. ACID/BASE: 8 H36051 DATE TIME SB3 @ 10' 2-26-13 11:15 am SB3 @ 15' 2-26-13 11:30 am SB3 @ 20' 2-26-13 11:45 am SB3 @ 25 2-26-13 12:00 pm

PLEASE NOTE: Liabity and Damages. Cardinats fiabity and client's exclusive remety for any claim arising whether based in contact or tort, shall be inntent to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wavest unless made in whiling and received by Cardinal within 30 days after competition of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without finalition, business interruptions, loss of use, or loss of parkin incurred by chert, its subsciaries,

affiliates or successors arising out of or related to the performance	of services hereunder by Cardinal, regardless of whether	er such claim is based upon any of the above stated	reasons or otherwise.				
Relinguished By:	Date: Received By:	I manufacture in	Phone Result:	☐ Yes	□ No	Add'l Phone #:	
10/10/2000	6-27-13		Fax Result:	☐ Yes	□ No	Add'l Fax #:	
1 Company	Time:	P	REMARKS:				
	1 9:00 //-) /2/ <>					
Relinquished By:	Date: Received By:						
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1 Part of the same	Time: // // ////	<i>1810 H. A. OHO</i> N	.]				
The second second	69:16 - Hedelah			•			
Delivered By: (Circle One)	17 1	le Condition CHECKED BY:					
1		Antact (Initials)					
Sampler - UPS - Bus - Other:	49 DY	es 📋 Tes 📗 / 개/시	1				
	I S L N	No No Valle 1					

#26

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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.

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised August 8, 2011

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

Release Notification	on and Corrective Act	ion					
·	OPERATOR	Initi	al Report 🛛	Final Repor			
Name of Company COG OPERATING LLC	Contact Pat Ellis						
Address 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-230-007						
Facility Name Chicken Hawk State #1	Facility Type Tank Batter	у					
Surface Owner State Mineral Owner		API No	. 30-015-33682	2			
LOCATIO	ON OF RELEASE						
Unit Letter Section Township Range Feet from the Nor A 15 25S 28E	th/South Line Feet from the E	ast/West Line	County Eddy	,			
Latitude <u>N 32 08.236</u>	Longitude <u>W 104 04.</u>	.079					
	E OF RELEASE	· · · · · · · · · · · · · · · · · · ·					
Type of Release Produced Water Source of Release Produced water tank	Volume of Release 85bbls Date and Hour of Occurrence		Recovered 80bbls				
Source of Refease Produced water fank	06/26/2012		d Hour of Discovery 012 @ 8:40 am				
Was Immediate Notice Given? 🔲 Yes 🔲 No 🔲 Not Require	I If YES, To Whom? Mike B	ratcher- OCD					
By Whom? Michelle Mullins	Date and Hour 06/26/2012 @	@ 3:12 pm	DEOE	VED			
Was a Watercourse Reached? ☐ Yes ☑ No	If YES. Volume Impacting the	Watercourse.	RECEIVED				
If a Watercourse was Impacted, Describe Fully.*			AUG 13	2013			
in a watercourse was impacted, describe runy.			NMOCD AF	RTESIA			
Describe Cause of Problem and Remedial Action Taken.*							
The produced water tank at the Chicken Hawk State Tank Battery overflout. Electricians repaired the problem.	owed due to an electrical problem th	hat did not allov	v the high level alar	m to be sent			
Describe Area Affected and Cleanup Action Taken.*							
Initially roughly 85bbls of produced water was released from the water t was completely contained inside the dike walls of the tank battery. The accordance with a remediation plan approved by Mike Bratcher of NMO	spill measured approximately 20' x	bbls with a vacu 40'. Remediation	ium truck. The enti on was completed i	re release n			
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective ne NMOCD marked as "Final Reporte te contamination that pose a threat to loes not relieve the operator of resp	actions for rele rt" does not relic to ground water, onsibility for co	ases which may ene eve the operator of , surface water, hun ampliance with any	danger liability nan health			
	OIL CONSE	RVATION	<u>DIVISION</u>	İ			
Signature:							
Printed Name: Robert Grubbs Jr.	Approved by Environmental Speci	alist:					
Title: Senior Environmental Coordinator	Approval Date:	Expiration D	Date:				
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	İ	Attached				
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

	(OPERA?	ΓOR			al Report		Final Report		
Name of Company COG OPERATING LLC		ontact		Pat Ellis						
Address 550 W. Texas, Suite 100, Midland, TX 7970		elephone i		-230-00						
Facility Name Chicken Hawk State #1	F	acility Typ	e Tar	nk Batter	ry					
Surface Owner State Mineral	Owner				Lease N	lo. (API#) 30-01	5-33682		
LOC	ATION	OF RE	LEASE							
Unit Letter Section Township Range Feet from the A 15 25S 28E Feet from the	North/S	outh Line	Feet from the	East/V	Vest Line	County	County Eddy			
Latitude 32 08.236 Longitude 104 04.079										
NAT	TURE ()F REL	EASE							
Type of Release Produced water			Release 85bbls			Recovered				
Source of Release Produced water tank		Date and F 06/26/2012	lour of Occurren	ice		Hour of Di 12 8:40 a.m				
Was Immediate Notice Given?		If YES, To					····			
☐ Yes ☐ No ☐ Not R	Required			Mike f	Bratcher-O	CD				
By Whom? Michelle Mullins			lour 03/26/2011			RE	CF	MED		
Was a Watercourse Reached? ☐ Yes ☒ No		If YES, Vo	olume Impacting	the Wate	ercourse.	RECEIVED				
				AUG 1 3 2013						
If a Watercourse was Impacted, Describe Fully.*										
Describe Cause of Problem and Remedial Action Taken.*						NMO	CD A	RTESIA		
The produced water tank at the Chicken Hawk State Tank Batter out. Electricians have been called out to the facility to correct the		ed due to ar	electrical probl	em that d	lid not allov	w the high	level ala	rm to be sent		
Describe Area Affected and Cleanup Action Taken.* Initially roughly 85bbls of produced water was released from the was completely contained inside the dike walls of the tank batter the spill site area to delineate any possible contamination from the to any significant remediation work.	y. The spil ne release a	l area meas nd we will p	ured approximat present a remedi	ely 20' x ation wor	40'. BBC k plan to th	Internation ne NMOCI	nal Inc. v D for app	vill sample proval prior		
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	A	pproved by	District Supervi	sor:						
Title: HSE Coordinator	A	oproval Dat	e:		Expiration	Date:				
E-mail Address: jrusso@conchoresources.com	Co	onditions of	Approval:			Attached	H 🗆			
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 is 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
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Hobbs, NM 88241-0805 USA
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