SITE INFORMATION

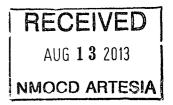
Report Type: Work Plan Report RECEIVED

AUG 13 2013

			1100 10 2013			
General Site Information:	SRO 103 State SWD		NMOCD ARTESIA			
Site:	THINICOL ARTESIA					
Company:	COG Operating LLC					
Section, Township, and Range:	17 26S	28E				
Lease Number:	API# 30-015-24462					
County:	Eddy County, NM					
GPS:	N 32 02.232 W	/ 104 06.9	44			
Surface Owner:	State					
Mineral Owner:						
Directions:			/illage Road (CR720) and US Hwy 285, go ites City Road for 2.9 miles, turn South for 1.8			
Release Data:	1 × · · · · · · · · · · · · · · · · · ·	*				
Date Released:	11/4/2011	**	A STATE OF THE STA			
Type of Release:	Oil, Produced water					
Source of Contamination:	Pump failure at water ta	nks				
Fluid Released:	2 bbls oil, 1000 bbls prod		er			
Fluids Recovered:	2 bbls oil, 910 bbls produced water					
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:	Ī .					
Depth to Groundwater:	Ranking Score	3	Site Data			
<50 ft.	20					
50-99 ft.	10		10			
>100 ft.	0					
Well Head Protection:	Ranking Score	9	Site Data			
Water Source <1,000 ft., Private <200						
Water Source >1,000 ft., Private >200	0		0			
Surface Body of Water:	Ranking Score	2	Site Data			
<200 ft.	20					
200 ft 1,000 ft.	10					
>1,000 ft.	0	-	0			
Total Ranking Score:	10	·				
	• .					

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





COG Operating LLC

SRO 103 State SWD

(Release Date: 11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, New Mexico GPS: N 32 02.232 W 104 06.944

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 24, 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, SRO 103 State SWD, Unit M, Section 17, Township 26 South, Range 28 East, Eddy County, NM

1.0 SITE CHARACTERIZATION

The subject site is located Southeast of Carlsbad, in Section 17, Township 26 South, and Range 28 East, Eddy County, NM. The GPS coordinates are N 32 02.232 W 104 06.944. The site consists of undeveloped rangeland and petroleum production facilities. On November 4, 2011, a bad sensor and faulty relay panel prevented the pump from working, in turn causing the produced water tank to overflow. The spill measured approximately 20' x 500' on the lease pad, in the pasture, and on the lease road. Approximately 1000 bbls of produced water and 2 bbls of oil were released with roughly 910 bbls of produced water and 2 bbls of oil being recovered via vacuum truck.

A diagram of the location including sample points can be reviewed in Appendix I of this report. The surface soil at this location is light brown to brown sand, red clay, and tan 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 17, Township 26 South, and Range 28 East is less than or approximately 100 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 December 14th and 15th of 2011. Seven sample points were taken in the leak area at various depths. The samples were taken to Cardinal Laboratories for BTEX, TPH, and chloride analysis. The BTEX and TPH results for all seven sample points at a depth of 1 foot were non-detectable, except for the DRO result at SP6 at 1 foot; it was 222 mg/Kg. The chloride results for SP1 were 9,600 mg/Kg at 1 foot, 8,600 mg/Kg at 4 feet, 3,120 mg/Kg at 7 feet, 1,060 mg/Kg at 9 feet, and 622 mg/Kg at 12 feet. At SP2, the chloride results were 10,500 mg/Kg at 1 foot, 1,180 mg/Kg at 3 feet, and 176 mg/Kg at 5 feet. The chloride results for SP3 were 8,930 mg/Kg at 1 foot, 928 mg/Kg at 4 feet, and 144 mg/Kg at 6 feet. At SP4, the chloride results were 240 mg/Kg at 1 foot, 160 mg/Kg at 3 feet, and 224 mg/Kg at 5 feet. The chloride results for SP5 were 448 mg/Kg at 1 foot, 2,040 mg/Kg at 3 feet, and 768 mg/Kg at 5 feet. At SP6, the chloride results were 5,520 mg/Kg at 1 foot, and 6,320 mg/Kg at 2 feet. The chloride results for SP7 were 9,200 mg/Kg at 1 foot, 1,880 mg/Kg

at 3 feet, 448 mg/Kg at 5 feet, and 288 mg/Kg at 7 feet. Upon review of the laboratory results, it was determined that further sampling was warranted. Therefore, additional samples were taken at 14 feet and 16 feet at SP1, at 6 feet and 7 feet at SP5, and at 3 feet, 4 feet, and 5 feet at SP6. The samples were taken to Cardinal Laboratories for chloride analysis. The chloride results at SP1 were 464 mg/Kg at 14 feet and 272 mg/Kg at 16 feet. At SP5, the chloride results were 400 mg/Kg at 6 feet, and 144 mg/Kg at 7 feet. The chloride results for SP6 were 928 mg/Kg at 3 feet, 288 mg/Kg at 4 feet, and 48 mg/Kg at 5 feet. Once the excavation was complete, BBC personnel conducted confirmation sampling of the sidewalls and bottom. Twelve sidewall samples and three bottom samples were taken in the excavation area on June 5, 2013. The samples were taken to Cardinal Laboratories for analyzing. The chloride results were 368 mg/Kg at Sidewall 1, 592 mg/Kg at Sidewall 2, 176 mg/Kg at Sidewall 3, 240 mg/Kg at Sidewall 4, 176 mg/Kg at Sidewall 5, 208 mg/Kg at Sidewall 6, 352 mg/Kg at Sidewall 7, 416 mg/Kg at Sidewall 8, 256 mg/Kg at Sidewall 9, 48 mg/Kg at Sidewall 10, 32 mg/Kg at Sidewall 11, and 512 mg/Kg at Sidewall 12. The chloride results were 80 mg/Kg at Bottom 1, 64 mg/Kg at Bottom 2, and <16.0 at Bottom 3. The results of the analysis are located in Appendix II of this report. The sample points and confirmation sampling locations can be viewed on the site diagrams in Appendix I of this report.

3.0 CONCLUSION AND RECOMMENDATION

On September 23, 2012, BBC personnel sent a proposed remediation plan to Mike Bratcher of NMOCD. Mike Bratcher approved the plan via email on October 17, 2012. Remediation correspondence is located in Appendix IV of this report.

In accordance with the approved remediation plan, excavation was completed by removing the impacted soil to a depth of 5 to 6 feet in the area of SP1, to a depth of 1 foot in the areas of SP2 and SP3, and to a depth of 3 feet in the areas of SP6 and SP7. A surface scrape was completed in the areas of SP4 and SP5. Confirmation sampling was conducted and reviewed prior to backfilling the site with clean soil. The lab results for the confirmation sampling can be viewed in Appendix II of this report.

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

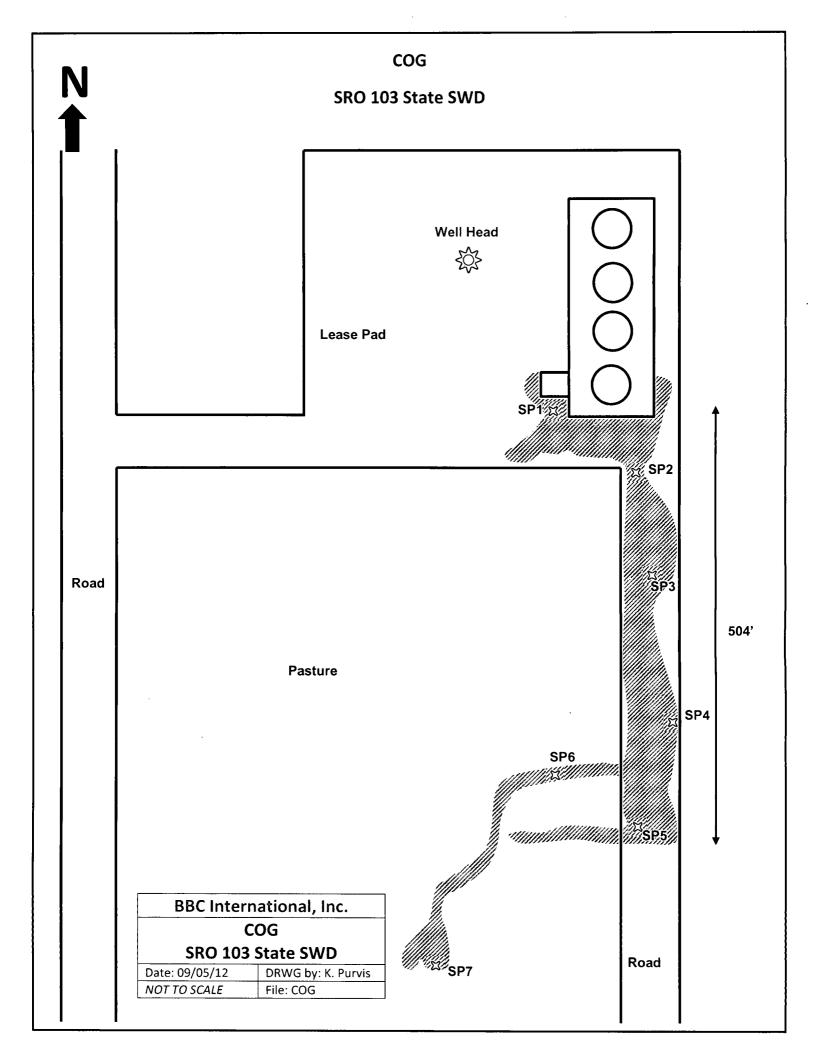
September 2012 and June 2013

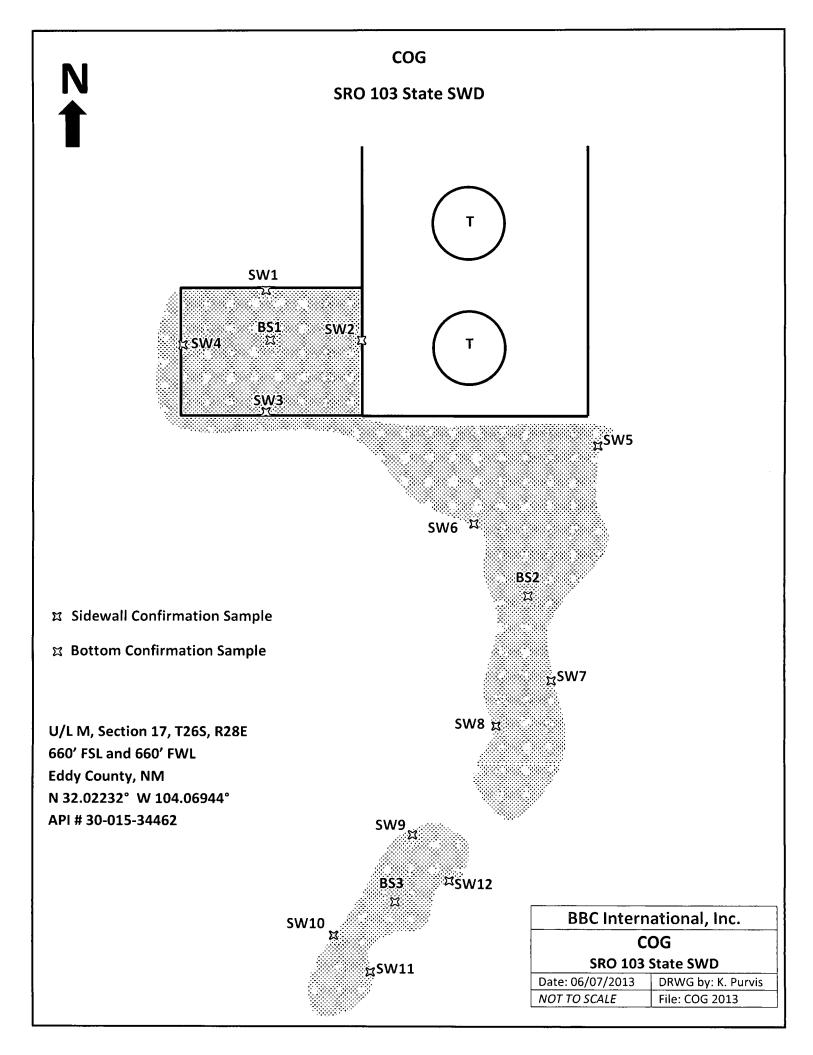
SRO 103 State SWD (11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, NM GPS: N 32 02.232 W 104 06.944

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.







Groundwater Plot

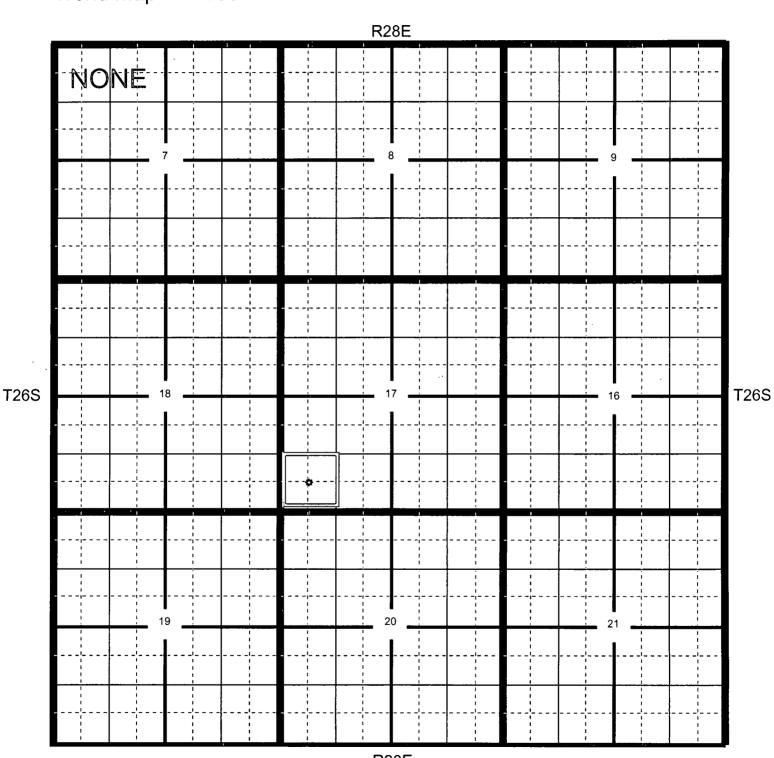
COG SRO 103 State SWD

County Eddy Unit Letter

Section 17 Township T26S Range R28E

Trend Map

<100'



R28E

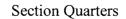
‡ Location

OCD

OUSGS

○ SEO

All Databases





COG SRO 103 State SWD

County Eddy

Unit Letter M

Section 17 *Township* T26S

Range R28E

Trend Map <100'

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2

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SW/NW	SE/NW	SW/NE	SE/NE
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Location

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All Databases

APPENDIX II

Laboratory Analytical Results

December 2011, March 2012, and June 2013

SRO 103 State SWD (11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, NM GPS: N 32 02.232 W 104 06.944

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.

Laboratory Analytical Results Summary COG, SRO 103 State SWD

		Sample	SP1 @ 1'	SP1.@4"	SP1 @ 7'	SP1@9'	SP1 @ 12'	SP1 @ 14'	SP1 @ 16'
Analyte	Method	Date	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	3/26/12	3/26/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		9600	8600	3120	1060	688	464	272
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3"	SP2 @ 5'
Analyte	Method	Date	12/14/11	12/14/11	12/14/11
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Chloride	SM4500CI-B		10500	1180	176
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP3 @ 1'	SP3@4"	SP3 @ 6'
Analyte	Method	Date	12/14/11	12/14/11	12/15/11
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Chloride	SM4500CI-B	T	8930	928	144
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

	}	Sample	SP4@1	SP4@3*	SP4 @:5'
Analyte	Method	Date	12/15/11	12/15/11	12/15/11
		I	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B	T	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Chloride	SM4500CI-B		240	160	224
GRO	TPH 8015M	7	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP5@1'	SP5@3'	SP5 @ 5	SP5 @ 6'	SP5 @ 7'
Analyte	Method	Date	12/15/11	12/15/11	12/15/11	3/26/12	3/26/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B	1	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B	T	448	2040	768	400	144
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP6 @ 1'	SP6 @:2"	SP6 @ 3'	SP6 @ 4'	SP6@5'
Analyte	Method	Date	12/15/11	12/15/11	3/26/12	3/26/12	3/26/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		5520	6320	928	288	48
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M	1	222	n/a	n/a	n/a	n/a

		Sample	SP7 @ 1'	SP.7 @ 3'	SP7 @ 5'	SP7@7'
Analyte	Method	Date	12/15/11	12/15/11	12/15/11	12/15/11
			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
Chloride	SM4500CI-B		9200	1880	448	288
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

Laboratory Analytical Results Summary SRO 103 State SWD

		Sample	Sidewall 1
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		368

		Sample	Sidewall 2
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		592

		Sample	Sidewall 3
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		176

		Sample	Sidewall 4
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		240

		Sample	Sidewall 5
Analyte	Method	Date	6/5/13
		-	mg/Kg
Chloride	SM4500CI-B		176

		Sample	Sidewall 6
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		208

		Sample	Sidewall 7
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		352

		Sample	Sidewall 8
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		416

		Sample	Sidewall 9
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		256

		Sample	Sidewall 10
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		48

		Sample	Sidewall 11
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		32

		Sample	Sidewall 12
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		512

		Sample	Bottom 1
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		80

		Sample	Bottom 2
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		64

		Sample	Bottom 3
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		<16.0



December 21, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SRO 103 ST SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/16/11 14:45.

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 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.

Celey & Keens

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: Reported: 12/16/2011

12/21/2011

SRO 103 ST SWD

Project Number: Project Location:

Project Name:

NONE GIVEN MALAGA, NM

Sampling Date:

12/14/2011

Sampling Type:

Soil Sampling Condition:

Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: SP 1 @ 1 FT (H102721-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	108	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	12/20/2011	ND	432	108	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	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	225	113	200	0.0573	
Surrogate: 1-Chlorooctane	99.5	% 55.5-15	4						
Surrogate: I-Chlorooctadecane	115	% 57.6-15	8						

Sample ID: SP 1 @ 4 FT (H102721-02)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP			·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	12/20/2011	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keene



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

(505) 397-0397 Fax To:

Received: Reported: 12/16/2011

12/21/2011

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

12/14/2011

Sampling Type:

Soil Cool & Intact

Sampling Condition:

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 7 FT (H102721-03)

Chloride, SM4500Cl-B	mg	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	12/20/2011	ND	432	108	400	0.00	
Sample ID: SP 1 @ 9 FT (H102721-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP				_	_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	12/20/2011	ND	432	108	400	0.00	
Sample ID: SP 1 @ 12 FT	(H102721-05)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/20/2011	ND	432	108	400	0.00	

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Celey & Keine



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

Fax To:

(505) 397-0397

Received: Reported:

12/16/2011

12/21/2011

Project Name:

SRO 103 ST SWD

Project Number: Project Location:

NONE GIVEN MALAGA, NM

Sampling Date:

12/14/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 2 @ 1 FT (H102721-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS			 		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	107	% 64.4-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	12/20/2011	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Anaiyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	225	113	200	0.0573	
Surrogate: 1-Chlorooctane	101	% 55.5-15	4			· · · · · ·			
Surrogate: 1-Chlorooctadecane	114	% 57.6-15	8						

Sample ID: SP 2 @ 3 FT (H102721-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	12/20/2011	ND	432	108	400	0.00	

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Fax To:

(505) 397-0397

Received: Reported:

12/16/2011

12/21/2011

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

12/14/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 2 @ 5 FT (H102721-08)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/20/2011	ND	432	108	400	0.00	

Sample ID: SP 3 @ 1 FT (H102721-09)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	< 0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
	•					·········			

Surrogate: 4-Bromofluorobenzene (PIL	110	% 64.4-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	12/20/2011	ND	432	108	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	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	225	113	200	0.0573	

Surrogate: 1-Chlorooctane 99.5 % 55.5-154
Surrogate: 1-Chlorooctadecane 111 % 57.6-158

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BBC International, Inc.

Cliff Brunson

P.O. Box 805

Hobbs NM, 88241

Fax To:

(505) 397-0397

Received:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/21/2011

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

Analyte

MALAGA, NM

Sample ID: SP 3 @ 4 FT (H102721-10)

Chloride.	SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

% Recovery

True Value QC

RPD

0.00

Chloride

Result 928

16.0 12/20/2011

Reporting Limit

ND

Method Blank

432

BS

108

400

Qualifier

Sample ID: SP 3 @ 6 FT (H102721-11)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/20/2011	ND	416	104	400	3.77	

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Fax To:

(505) 397-0397

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/21/2011

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MALAGA, NM

113%

57.6-158

Sample ID: SP 4 @ 1 FT (H102721-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	108	% 64.4-13	4		-				
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/20/2011	ND	416	104	400	3.77	
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	12/19/2011	ND	217	109	200	0.138	
	<10.0	10.0	12/19/2011	ND	225	113	200	0.0573	

Sample ID: SP 4 @ 3 FT (H102721-13)

Chloride, SM4500CI-B		/kg	Analyze	d By: HM			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/20/2011	ND	416	104	400	3.77	

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Surrogate: 1-Chlorooctadecane

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

Fax To:

(505) 397-0397

Received:

12/16/2011

Reported:

12/21/2011

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

12/15/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ 5 FT (H102721-14)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyzed

Analyte

Chloride

Result

16.0 12/20/2011

Reporting Limit

Method Blank ND 8S 416 % Recovery

True Value QC

400

RPD

3.77

Qualifier

Sample ID: SP 5 @ 1 FT (H102721-15)

mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
	Result <0.050 <0.050 <0.050	<0.050	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

Surrogate: 4-Bromofluorobenzene (PIL

109 %

64.4-134

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/20/2011	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	225	113	200	0.0573	

Surrogate: 1-Chlorooctane

87.5 %

55.5-154

Surrogate: 1-Chlorooctadecane

91.7%

57.6-158

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Celey D. Keens



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

Fax To: (505) 397-0397

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/21/2011

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MALAGA, NM

Sample ID: SP 5 @ 3 FT (H102721-16)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte

Result

Reporting Limit

Analyzed

% Recovery

True Value QC 400

RPD

Chloride

2040

16.0 12/20/2011 Method Blank ND

416

BS

104

3.77

Qualifier

Sample ID: SP 5 @ 5 FT (H102721-17)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit
Chloride	768	16.0

Analyzed Method Blank 12/20/2011 ND

BS 416

104

% Recovery

True Value QC 400

RPD

Qualifier 3.77

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Celey D. Keene, Lab Director/Quality Manager

Celeg D. Keine

Page 9 of 16



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

Fax To:

(505) 397-0397

Received: Reported: 12/16/2011

12/21/2011

Project Name:

SRO 103 ST SWD

Project Number:

NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

12/14/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 6 @ 1 FT (H102721-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	12/20/2011	ND	416	104	400	3.77	
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	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	222	10.0	12/19/2011	ND	225	113	200	0.0573	
Surrogate: 1-Chlorooctane	98.9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	115	6 57.6-15	8						

Sample ID: SP 6 @ 2 FT (H102721-19)

Chloride, SM4500CI-B	mg/kg			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	12/20/2011	ND	416	104	400	3.77	

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Celey D. Keine



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

Fax To: (505) 397-0397

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/21/2011

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MALAGA, NM

Sample ID: SP 7 @ 1 FT (H102721-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	107 %	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	12/20/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					

Method Blank

ND

ND

BS

217

225

% Recovery

109

113

Surrogate: 1-Chlorooctane

Analyte

GRO C6-C10

DRO >C10-C28

94.3 %

Result

<10.0

<10.0

55.5-154

Analyzed

12/20/2011

12/20/2011

Reporting Limit

10.0

10.0

Surrogate: 1-Chlorooctadecane

108 %

57.6-158

Sample ID: SP 7 @ 3 FT (H102721-21)

Chloride, SM4500CI-B	500CI-B mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	12/20/2011	ND	416	104	400	3.77	

Cardinal Laboratories

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RPD

0.138

0.0573

True Value QC

200

200

Qualifier

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BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (505) 397-0397

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/21/2011

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

Analyte

MALAGA, NM

Sample ID: SP 7 @ 5 FT (H102721-22)

Chloride, SM4500CI-B

Analyzed By: HM

Analyzed

% Recovery

True Value QC 400

RPD

Qualifier

Chloride

Chloride

Result 448

Reporting Limit 16.0

12/20/2011

Method Blank ND

416

BS

104

3.77

Sample ID: SP 7 @ 7 FT (H102721-23)

Chloride, SM4500CI-B

Analyzed By: HM

Analyte Result Reporting Limit Analyzed 288 16.0 12/20/2011

Method Blank ND

BS 416

104

% Recovery

True Value QC 400

RPD

3.77

Qualifier

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

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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 ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in 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.

Celeg & Keine

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(303) 393-2326 FAX (303) 393-2476	<u> </u>					·								 				
Company Name	BBC International, Inc.	_			ANALYSIS REQUEST]								
Project Manager	: Cliff Brunson				P.O														
Address: P.O.	Box 805				Company:			İ		;		l							
City: Hobbs	State: NM	Zip	8	8241	Attı	n:				İ						ľ			- 1
Phone #: 575-3	397-6388 Fax # : 575-	-397	'-03	397	Add	dress:							Ì				}	1	
Project#:	Project Owner	: (<u> </u>	<u>}</u> ان ا	iche	City	y:												İ	
Project Name:	SRC 103 St 510D				Sta	te:	Zip:							1					
Project Location	: Malaga NA	_			Pho	one #:			l	6.7	ļ		į				1		
Sampler Name:	JERDAN WICODEN	<u> </u>			Fax	c#:			ŀ	ju,	ļ			.					1
FOR LAB USE ONLY				MATRIX		PRESERV.	SAMPLI	NG		7									
Lab I.D. 필요기원	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER WASTEWATER SOIL. OIL. SLUDGE	OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME	-10	BHAL	137EA			•					
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3.99	5P 3 @ 4 At	Ġ	Ŀ	X !			<i>r</i> ·	342).										
	id Damages. Cardinal's liability and client's exclusive remedy for a ng those for negliquence and any other cause whatsoever shall be									910le									

service. In no every shall Cardinal be floor for incidental or consequental carsages, including warroun limitation, business interruptions, loss of use, or loss of profes incurred by others, as subseries es.

alliances of soccassors answered of or or related to the performance of services nereforces	by Cardinal legarcies of whether 1000 permits based 3000 envice the above stated te	egacus de dit diverse	
Relinquished By: Date: 1	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:	
I I I I I I I I I I I I I I I I I I I	$1 A \cap A \cdot h \cdot A \cdot a \cdot .$	Fax Result: ☐ Yes ☐ No Add'l Fax #:	
- / se dan W to time to	5 ULLU SALANDO -	REMARKS: EMAIL ACC	
Relinquished By: Date:	Rę́¢eived By:		
\\	*		
Time:			
	Sample Condition CHECKED BY:		
Delivered By: (Circle One)	· · · · · · · · · · · · · · · · · · ·		
Sampler - UPS - Bus - Other:	Cool Intact ((initials)		
	4 NO NO CYVI		

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

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824

Project Manager: Cliff Brunson

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc.

Address: P.O.	Box 805		Company:						
City: Hobbs	State: NM	Zip: 88241	Attn:						
Phone #: 575-	none #: 575-397-6388 Fax #: 575-397-0397			Address:					
Project #:	roject#: Project Owner: ပြင်း ပင်ပြင								
Project Name:		UD	State: Zip:		2	√			
Project Location	1: Malagor, NM		Phone #:		l i	.			
Sampler Name:	JORDAN WOODF	iN	Fax #:		-1 \hat{N}				
FOR LAB USE ONLY	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SI ILDGE	PRESERV. SAMPLI	NG	1 20 / X2	12/2			
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enalyses. All claims includi service. In no event shall C affilintes or successors ansi Relinquished B	no Damages. Carcinatis hacility and clients exclusive remody for ing those for negligence and any other cause whatever shall be arriant be liable for incidented or consequented damages, including out of or related to the performance of services hereunited by y:	descried waived unless made in writing a grafibous immation, but ness interruptions landingli, regardless of whether such did in Received By:	nd received by Cardinal within 30 days after, use of use, or loss of profits incurred by	er completion of the as of ent, its subsidiaries, essons or otherwise Phone Result Fax Result: REMARKS:	it: O	∕es □ No	Add'l Fax		
Relinquished B	y: Date:	Received By:		Ć	ENA	416 A	CC		
· ·	: (Circle One) - Bus - Other:	Sample Condi Cool Intact							
Sampler - UPS	- bus - Other.	LIVes DY	T LYN	1					1

BILL TO

P.O. #:

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

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7 of 3

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** P.O. #; Project Manager: Cliff Brunson Address: P.O. Box 805 Company: City: Hobbs State: NM Zip: 88241 Attn: Phone #: 575-397-6388 Fax #: 575-397-0397 Address: Project Owner: (Cuc Vi = Project #: City: Project Name: State: Zip: Project Location: Phone #: TORDAN WODFING Sampler Name: Fax #: MATRIX SAMPLING PRESERV FOR LAB USE ONLY (G)RAB OR (C)OMF GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE/COOL Sample I.D. Lab I.D. HIDATA DATE TIME 232 12-15-11 250 X 332

PLEASE NOTE: Liability and Damages, Cardmars liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the claim for the analyses. All claims including those for negligence and any other cause extensions while deemed waited unless made in writing and received by Cardinal within 30 days uffor compression of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without finitiation, business interruptions, loss of use, or loss of profes incurred by client, its subsidiaries.

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Relinquished By:	Date: //11 /11	Received By:	Phone Result: Yes No Add'l Phone #:
	10111611	the distribution of the state o	Fax Result: 🗆 Yes 🔘 No Add' Fax #:
(Journ West	Time:	MON MONDE	REMARKS:
		CIUCIO CARLOS DO CO	FMACL ACL
Relinquished By:	Date:	Réceived By:	E MINIO 1700
Į.	Time:		
Delivered By: (Circle One)		Sample Condition CHECKED BY:	
Delivered By. (Circle Offe)		Cool Intact (Initials)	
Sampler - UPS - Bus - Other:		119 Des Mes	
Campion Cr C Bus - Citier:		T No Fi No File	

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

世26



March 29, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SRO 103 ST SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/27/12 9:06.

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 & Keine

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:

03/27/2012

Sampling Date:

03/26/2012

Reported:

03/29/2012

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MALAGA, NM

Sample ID: SP 1 @ 14 FT (H200727-01)

Chloride, SM4500CI-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/27/2012	ND	416	104	400	0.00	
Sample ID: SP 1 @ 16 FT	(H200727-02)		•					
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/27/2012	ND	416	104	400	0.00	
Sample ID: SP 5 @ 6 FT ((H200727-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/27/2012	ND	416	104	400	0.00	
Sample ID: SP 5 @ 7 FT ((H200727-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/27/2012	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keine



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

Fax To:

(505) 397-0397

Received:

03/27/2012

03/26/2012

Reported:

Sampling Date: Sampling Type:

Soil

Project Name:

03/29/2012 SRO 103 ST SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

Analyte

Analyte

Analyte

MALAGA, NM

Sample ID: SP 6 @ 3 FT (H200727-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

03/27/2012

Analyzed

03/27/2012

Method Blank

% Recovery

True Value QC

Qualifier

Chloride

Chloride

Chloride

Result 928

Result

288

Result

48.0

16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

ND

416

104

400

Sample ID: SP 6 @ 4 FT (H200727-06)

Chloride, SM4500CI-B

Analyzed By: AP

% Recovery

104

104

True Value QC

400

400

RPD

0.00

RPD

0.00

Qualifier

Sample ID: SP 6 @ 5 FT (H200727-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed 03/27/2012 Method Blank ND

Method Blank

ND

BS 416

BS

416

% Recovery True Value QC

RPD 0.00 Oualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg 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 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. Keine

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	0																					
Company Name:	BBC International, Inc.							À	3/1	LL TO		1				ANA	LYSIS	RE	QUE	ST			
Project Manager	: Cliff Brunson						P.O.	#:	,														
Address: P.O.	Box 805						Com	pany:															
city: Hobbs	State: NM	Zip:	882	241			Attn:					l											
Phone #: 575-3	397-6388 Fax#: 575	-397-	039	7			Addr	ess:												İ			
Project #:	Project Owner	r: <u> </u>	0	67			City:								[ļ			
Project Name:	5KC 153 5MY	>					State): 		Zip:										1			
Project Location	· Walaga Ni	14					Phor	ne #:											İ	•			
Sampler Name:	Tordolf Circle	7	C/Y	<u> </u>			Fax #	# :]]	<u> </u>				i			
FOR LAB USE ONLY		П	7_	М	ATRI	(Р	RESE	₹٧	SAMPLI	NG]			į							1	
Lab I.D. H200127	Sample I.D.	(G)RAB OR (C)OM	GROUNDWATER	WASTEWATER	SOIL OIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME	-6											
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PLEASE MOTE: Liability an	d Damages. Cordinal's kability and client's exclusive remedy for a	nov claim	rising v	shather ha	sed in C	ottact o	r ton Si	hall be list	nied 6	a the amount gar	d by the client to	ritte	<u> </u>	L	<u> </u>	<u> </u>		Ĺ					

PLEASE NOTE: Liabity and Damages. Cardina's liabity and clients's exclusive remidy for any claim assing whether based in contact or tort, shall be limited to the amount paid by the client for the unalyses. All claims including those for neighgence and any other cause whatsoever shall be deemed waved unless under in willing and received by Cardinal within 30 days after competition of the applicable service. In no event shall Cardinal see liable for incliental or consequental damages, including without liniation, business interruptions, loss of uses of profits incurred by client, as subsidiaries.

affiliates or successors arising out of prirelated to the performance of	services hereunder by Cardinal rega	diess of whether such claim is bas	ed upon any of the above stated re-	asons or otherwise.			
Relinquished By: /	Date:// Recei	ved By: / //		Phone Result:	☐ Yes	□ No	Add'l Phone #:
1 () 1 () ()	3/24/1	W 1/1/2		Fax Result:	☐ Yes	□ No	Add'l Fax #:
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1/2///	Time:	cle illen	SIPH				
Delivered By: (Circle One)		Sample Condition	CHECKED BY:				
1	U ,	Cool /Intact	(Initials)				
Sampler - UPS - Bus - Other:	<i>ما إسي.</i>	☐ Yes ☐ Yes	1 (1批十				
<u></u>		No No No	1 1/1/2				

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



June 06, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SRO 103 ST SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/05/13 17:05.

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 & 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: Reported: 06/05/2013

06/06/2013

Project Name:

SRO 103 ST SWD

Project Number: Project Location: NONE GIVEN **ORLA**

Sampling Date:

06/05/2013

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: SW 1 (H301315-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

Analyte

Result 368

16.0

Reporting Limit

Reporting Limit

06/06/2013

Analyzed

ND

Method Blank

% Recovery 104

True Value QC 400

RPD Qualifier

3.77

Sample ID: SW 2 (H301315-02)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyzed

Method Blank

% Recovery

True Value QC

Chloride

Chloride

592

Result

16.0 06/06/2013 ND

BS 416

BS

416

104

400

RPD Qualifier 3.77

Sample ID: SW 3 (H301315-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyzed

Method Blank ND

BS

% Recovery

RPD

Chloride

Chloride

176

Result

240

Result

Reporting Limit 16.0

Reporting Limit

16.0

06/06/2013

416

104

True Value QC 400

3.77

Qualifier

Sample ID: SW 4 (H301315-04)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyzed

06/06/2013

Method Blank

ND

BS

432

% Recovery

108

True Value QC

400

RPD

3.77

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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 walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. 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

Celey D. Keine



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

Fax To: (575) 397-0397

Received: Reported: 06/05/2013

06/06/2013

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

Project Location:

ORLA

Sampling Date:

06/05/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: SW 5 (H301315-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	a By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/06/2013	ND	432	108	400	3.77	

Sample ID: SW 6 (H301315-06)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/06/2013	ND	432	108	400	3.77	

Sample ID: SW 7 (H301315-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/06/2013	ND	432	108	400	3.77	

Sample ID: SW 8 (H301315-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/06/2013	ND	432	108	400	3.77	

Sample ID: SW 9 (H301315-09)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/06/2013	ND	432	108	400	3.77	

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 neighboring and any other cause whatsoever shall be deemed waived unless made in writing and received by client first analyses, 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 profits incircured by client, businessing interruptions, loss of profits incircured by client, businessing interruptions, loss of profits incircured by client for analyses. All claims, including those for neighboring and completely service in the profit of the amount paid by client for analyses. All claims, including those for neighboring and completely service in the profit of the amount paid by client for analyses. All claims, including those for neighboring and profit of analyses. All claims, including those for neighboring and completely service in the amount paid by client for analyses. All claims, including those for neighboring and completely service and analyses. All claims, including those for neighboring and completely service. In no event shall cardinal be liable for incidental or consequential damages, including those for neighboring and completely service. In no event shall cardinal be liable for incidental or consequential damages, including those for neighboring and cardinal behavior analyses. All claims, including those for neighboring and cardinal behavior analyses. All claims, including those for neighboring and cardinal behavior analyses. All claims, including those for neighboring and cardinal behavior analyses. All claims, including those for neighboring and cardinal behavior analyses. All claims, including the service and claims and cardinal behavior analyses. All claims, including the service and claims analyses are consequently analyses. All claims

Celey & Kune



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

Fax To:

(575) 397-0397

Received: Reported: 06/05/2013

06/06/2013

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

Project Location:

ORLA

Sampling Date:

06/05/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: SW 10 (H301315-10)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SW 11 (H301315-1:	L)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SW 12 (H301315-1	2)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: BS 1 (H301315-13)									
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: BS 2 (H301315-14)									
Chloride, SM4500CI-B	/kg	Analyze	d By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/06/2013	ND	432	108	400	3.77	

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Celen L. Keine



BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To:

(575) 397-0397

Received: Reported:

06/05/2013

06/05/2013

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

Project Location:

ORLA

Sampling Date:

06/05/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: BS 3 (H301315-15)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2013	ND	432	108	400	3.77	

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Celeg & Kune



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 & Keene

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	<u>b</u>																		
Company Name	BBC International, Inc.					E	311	LL 70	:			/	ANAL	YSIS	S RE	QUE	ST			
	r: Cliff Brunson				P.	O. #:	_													
Address: P.O.	. Box 805				Cr	ompany:							ĺ	i !	[]					
city: Hobbs	State: NM	Zip	»: 8	38241	At	ttn:			1					1 1	'	'				
Phone #: 575-3	397-6388 Fax #: 575-	-39	7-0	397	Ar	ddress:		N/						į '	'	'	1 !			
Project #:	Project Owner				Ci	ity:	0	.TU.	1				,]	1 1		'				
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FOR LAB USE ONLY	(00 4 111)	Γ		MATRIX		PRESER	₹	SAMPLING	1			- 1	. 1	1 1				1 1	i 1	
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PLEASE NOTE: Utability and Osmages, 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 the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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	of services hereunder by Card	dinal, regardless of whether such claim is based	upon any of the above stated re	asons or otherwise.				
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† 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 Manage	r: 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: COG						City:					1													
Project Name: SRO 103 St SWD						State: Zip:				1														
Project Location	,						Phone #:					1					ł							
Sampler Name: GGS Y 2A							Fax #: (ļ						
FOR LAB USE ONLY				MATRIX			PRESERV. S				SAMPLI	PLING						j						
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:		DATE	TIME												
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PLEASE NOTE: Liability and Damages. Cardinal's liability and chert's exclusive remedy for any datim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. At claims including those for negigence and any other cause whatsoever shall be deemed varived unless made in writing and received by Cardinal within 30 days after combellion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without finishing to universe interruptions, loss of use, or loss of profits incurred by client, its substituties, affiliates or successions arising out of or related to the performance of services networker by Cardinal, regardless of whether such data is based upon any of the apove stated reasons or otherwise.

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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24/6

APPENDIX III

C-141

November 2011 and June 2013

SRO 103 State SWD (11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, NM GPS: N 32 02.232 W 104 06.944

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.

District 1
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

Attached |

Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Contact Pat Ellis Name of Company COG Operating LLC Address 550 W. Texas, Suite 100, Midland, TX 79701 Telephone No. 432-230-0077 Facility Name SRO 103 State SWD Facility Type SWD Facility Mineral Owner Lease No. (API# 30-015-24462) Surface Owner State LOCATION OF RELEASE Feet from the North/South Line East/West Line Unit Letter Section Township Range Feet from the County 28E 17 **26S** Eddy M Latitude 32 02.232 Longitude 104 06.944 NATURE OF RELEASE Type of Release Oil, Produced water Volume of Release 2 bbls oil. Volume Recovered 2 bbls oil, 1000 bbls produced water 1000 bbls produced water Source of Release Water tanks Date and Hour of Occurrence Date and Hour of Discovery 11/04/2011 11/04/2011 7:00 a.m. Was Immediate Notice Given? If YES, To Whom? Mike Bratcher-OCD Josh Russo Date and Hour 11/07/2011 9:16 a.m. By Whom? Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No RECEIVED If a Watercourse was Impacted, Describe Fully.* AUG 13 2013 NMOCD ABTESIA Describe Cause of Problem and Remedial Action Taken.* SWD tanks ran over due to the pump being down. The electrician reported a bad sensor on the water tanks and a faulty relay panel. All problems have been corrected. Describe Area Affected and Cleanup Action Taken.* Initially 1000 bbls of produced water and 2 bbls of oil were released from the SWD tanks at the SRO 103 State SWD. We were able to recover 2 bbls of oil and 910 bbls of produced water via vacuum trucks. Most of the release was contained inside the berm walls of the facility. This facility is lined with a 40 mil liner. Some of the release spilled over the lined berm walls and streamed into the pasture. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 10/17/2012. 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 District Supervisor: Printed Name: Robert Grubbs Jr. Title: Sr. Environmental Coordinator Approval Date: **Expiration Date:**

Conditions of Approval:

Date: 06-19-2013

E-mail Address: rgrubbs@concho.com

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:	ror			ial Report		Final Repor
Name of Co		COG OP			Contact Pat Ellis							
Address 550 W. Texas, Suite 100, Midland, TX 79701						Telephone No. 432-230-0077						
Facility Name SRO 103 State SWD						Facility Typ	e SWI	D Facil	ity	· · · · · · · · · · · · · · · · · · ·		
Surface Owner State Mineral Owner						r Lease No. (API#) 30-015-24462						
				LOCA	TIO	N OF REI	LEASE					_*
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	County	County			
М									Eddy			
Latitude 32 02.232 Longitude 104 06.944												
NATURE OF RELEASE												
Type of Rele	ase Oil, Pr	oduced water				Volume of Release 2bbls Oil, Volume Recovered 2bbls Oil, 1000bbls Produced water 910bbls Produced water						
Source of Re	lease Wate	er tanks				Date and Hour of Occurrence Date and Hour of Discovery 11/04/2011 7:00 a.m.						
Was Immedia	ate Notice (Yes [No 🗌 Not Re	quired	If YES, To	Whom?	Mike I	Bratcher	AREC.	FIV	/FDT
By Whom?	Josh Rus	so				Date and H	lour 11/07/2011			N II Emerge Co.	<u> </u>	7
Was a Water	course Read		Yes 🛭	l No		If YES, Volume Impacting the Watercourse AUG 13 20						2013
If a Watercou	rse was lm	pacted, Descr	£	NMOCD ARTESIA								
Describe Cau	se of Probl	em and Remed	dial Action	n Taken.*			· · · · · · · · · · · · · · · · · · ·					
	SWD tanks ran over due to the pump being down. The electrician reported a bad sensor on the water tanks and a faulty relay panel. All problems have been corrected.											
Describe Are	a Affected	and Cleanup A	Action Tak	ten.*								
oil and 910bb 40mil plastic	Initially 1000bbls of produced water and 2bbls of oil were released from the SWD tanks at the SRO 103 State SWD and we were able to recover 2bbls of oil and 910bbls of produced water with vacuum trucks. Most of the release was contained inside the berm walls of the facility. This facility is lined with a 40mil plastic liner. Some of the release spilled over the lined berm walls and streamed into the pasture. BBC will sample the spill site area in the pasture to delineate any possible contamination from the release.											
regulations al public health should their o or the enviror	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.											
S:	OIL CONSERVATION DIVISION										-	
Signature: Printed Name	. (Josh	Russo	Approved by District Supervisor:								
Títle:		HSE Co	ordinator			Approval Date: Expiration			Date:			
E-mail Addre	E-mail Address: jrusso@conchoresources.com						Conditions of Approval:			Attached		
Date: 11/ Attach Addit	14/2011 ional Shee	Phoess:		32-212-2399						<u> </u>		

APPENDIX IV

Correspondence October 2012

SRO 103 State SWD (11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, NM GPS: N 32 02.232 W 104 06.944

> 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, October 17, 2012 2:52 PM

To: Cliff P. Brunson

Cc: Josh Russo; Ken Swinney; Kathy Purvis; Jennifer Gilkey

Subject: RE: Concho Operating - SRO 103 State SWD

Reference: COG SRO SWD 103 * 30-015-24462 * M-17-26s-28e * Eddy County, New Mexico

OCD Tracking Number: 2RP-961 * Date of Release: 11/4/11

Cliff,

The proposal for remediation of the above referenced release is approved. It is OCD's understanding that the areas of SP2 & SP3 are being referenced in your email request.

Notify OCD 48 hours prior to commencement of remedial activities.

Notify OCD 48 prior to obtaining samples when the analyses are to be presented to OCD.

Confirmation samples from excavation bottoms and sidewalls are to be obtained prior to backfill.

OCD approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, 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: Sunday, September 23, 2012 7:52 PM

To: Bratcher, Mike, EMNRD

Cc: Josh Russo; Ken Swinney; Kathy Purvis; Jennifer Gilkey

Subject: Concho Operating - SRO 103 State SWD

Mike,

This e-mail is to confirm our discussion on September 5, 2012 concerning the remediation plan for the release that occurred at the COG SRO 103 State SWD. As agreed, COG will excavate impacted soil in the area of SP1 to a depth of 5 to 6 feet, in the areas of SP3 and SP3 to a depth of 1 foot, in the areas of SP4 and SP5 it will just be scraped in the near surface, and in the areas of SP6 and SP7 to a depth of 3 feet. The excavations will then be backfilled with clean soil.

I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. If you would please reply back via e-mail with your concurrence of this plan, it would be greatly appreciated.

COG 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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