

[Dakota Neel]
[HSE Coordinator]

April 14, 2019

Bradford Billings Oil Conservation Division 1220 S. St Francis Dr. #3 Santa Fe, NM 87505

Re: Closure Request

Copperhead Fee A #003H API #: 30-015-42327 RP#: 2RP-4747

Unit Letter E, Section 31, Township 26S, Range 29E

Eddy County, NM

Mr. Billings,

COG Operating, LLC (COG) is pleased to submit the following closure report for the Copperhead Fee A #003H. This release occurred on May 14, 2018. Following the release an assessment of impacted soils was conducted. A remediation work plan was submitted to and subsequently approved by the New Mexico Oil Conservation Division (NMOCD).

BACKGROUND

On May 14, 2018, a produced water release occurred on the Copperhead Fee A #003H flowline. The transition going to the facility ruptured resulting in the release of approximately one hundred and twenty-two (122) barrels of produced water with ten (10) barrels of produced water recovered.

Remediation activities were conducted in accordance with the NMOCD approved workplan.

REMEDIAL ACTIONS

- The impacted areas of SP1, SP2, and SP3 were excavated to a depth of one (1) foot below ground surface (bgs).
- The impacted areas of SP4, and SP5 were excavated to a depth of two (2) feet bgs.
- The impacted areas of SP6, SP7, and SP8 were excavated to a depth of four (4) feet bgs with a 20 mil liner installed at the bottom of the excavation.
- The impacted area of SP9 was excavated to a depth of two and a half (2.5) feet bgs.
- The excavation was backfilled with clean "like" material, and contoured to match the surrounding terrain. The site will be mechanically seeded using the landowner's preferred seed mixture.

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Dakota Neel HSE Coordinator

dneel2@concho.com

Sahot Red

Enclosed:

Appendix I: Final C-141

Appendix II: Initial C-141 (Copy) Appendix III: Approved Work plan

APPENDIX I

Form C-141

Revised April 3, 2017

<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

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

Oil Conservation Division 1220 South St. Francis Dr.

Santa	re, Ni	M 8/5	05					
Release Notification	on an	nd Co	rrective A	ction				
	OP	ERA	ΓOR		☐ Initial	Report	\boxtimes	Final Report
Name of Company: COG Production, LLC (OGRID #217955)	Cont			ert McN				
Address: 600 West Illinois Avenue, Midland, TX 79701	Telej	phone N	No. 432-6	583-744	13			
Facility Name: Copperhead Fee A #003H	Facil	lity Typ	e: Flowline					
Surface Owner: Private Mineral Owner	r: Private API No. 30-015-					30-015-42	2327	
LOCATIO		r Dri	FASE		•			
	th/Sout		Feet from the	East/W	Vest Line		Count	v
E 31 26S 29E 415	South		990		Vest		Eddy	•
Latitude 32.0012321 L	ongitu	ıde -10	4 0292206 NAI	283				
	_			203				
NATURI			Release 122 bbl.		Volume Re	vaarramad 10) hhl	
Type of Release Produced Water Source of Release:			Iour of Occurrence	2	Date and H			
Flowline Leak	l l		018 10:40am		May 14, 20		-	
Was Immediate Notice Given?	If Y	YES, To	Whom?					
☐ Yes ☐ No ☐ Not Require			cher – NMOCD					
By Whom? Sheldon Hitchcock			eaver - NMOCD Iour May 14, 2018	3 2:08pn	n			
Was a Watercourse Reached?			olume Impacting th					
☐ Yes ⊠ No								
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.*								
The release was caused by the flowline blowing out at the transition. Th	e transi	ition was	repaired.					
•			•					
Describe Area Affected and Cleanup Action Taken.*								
The release was in the pasture. A vacuum truck was dispatched to remo	ve all fr	reestandi	ing fluids. Remedi	iation ac	tivities have	e been com	pleted i	in
accordance to the NMOCD approved work plan.			_				_	
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								
should their operations have failed to adequately investigate and remedi	ate con	taminati	on that pose a thre	eat to gro	ound water,	surface wa	ter, hur	man health
or the environment. In addition, NMOCD acceptance of a C-141 report	does no	ot reliev	e the operator of r	esponsil	bility for co	mpliance w	ith any	other
federal, state, or local laws and/or regulations.			OIL CONS	SEDV	ΛΤΙΩΝ Ι	JIVISIO	N	
			OIL CONS	JEIN V	AHONI	<i>J</i> 1 V 1.51 C	<u>/1 N</u>	
N 4 4 0								
shot New	Appro	oved by	Environmental Sp	pecialist:			1.1	11
Signature:	_				4	uttan	Ha	\mathcal{M}
Printed Name: Dakota Neel						(
Title: HSE Coordinator	Appro	oval Dat	e: 12/2/2022	E	Expiration D	ate: N/A	ı	
E-mail Address: dneel2@concho.com	Cond	litions of	Approval:			Attacha 1		
	1					Attached	Ш	

none

Phone: 575-746-2010

Date: April 14, 2019

^{*} Attach Additional Sheets If Necessary

APPENDIX II

Form C-141

Revised April 3, 2017

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 <u>District III</u> 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

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

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

	7.0							
Release Notification	on and Corrective Acti	ion						
	OPERATOR		Report Final Report					
Name of Company: COG Production, LLC (OGRID #217955)		McNeill						
Address: 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-683	3-7443						
Facility Name: Copperhead Fee A #003H	Facility Type: Flowline							
Surface Owner: Private Mineral Owne	r: Private	API No.	30-015-42327					
LOCATIO	ON OF RELEASE							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rth/South Line Feet from the E	ast/West Line	County					
E 31 26S 29E 415	South 990	West	Eddy					
Latitude 32.0012321 I	L ongitude -104.0292206 NAD83	3						
NATUR	E OF RELEASE							
Type of Release Produced Water	Volume of Release 122 bbl.	Volume Re	ecovered 10 bbl.					
Source of Release:	Date and Hour of Occurrence		Iour of Discovery					
Flowline Leak Was Immediate Notice Given?	May 14, 2018 10:40am If YES, To Whom?	May 14, 20	018 10:40am					
Yes No Not Required Mike Bratcher – NMOCD								
·	Crystal Weaver - NMOCD							
By Whom? Sheldon Hitchcock	Date and Hour May 14, 2018 2:							
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the	Watercourse.						
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.*								
The release was caused by the flowline blowing out at the transition. The	ne transition is being repaired or repla	aced.						
	<i>G</i> . r r							
Describe Area Affected and Cleanup Action Taken.*								
The release was in the pasture. A vacuum truck was dispatched to remo	ove all freestanding fluids. Concho wi	ill have the spill	area sampled to delineate any					
possible impact from the release and we will present a remediation wor	k plan to the NMOCD for approval p	rior to any signit	ficant remediation activities.					
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								
should their operations have failed to adequately investigate and remed								
or the environment. In addition, NMOCD acceptance of a C-141 repor								
federal, state, or local laws and/or regulations.								
	OIL CONSE	RVATION I	<u>DIVISION</u>					
Signature: Dounn Oyant								
Printed Name: DeAnn Grant	Approved by Environmental Speci	ialist:						
Title: HSE Administrative Assistant	Approval Date:	Expiration D	Pate:					
		1 1 1 1 1 1 1						
E-mail Address: agrant@concho.com	Conditions of Approval:		Attached					

Phone: 432-253-4513

Date: May 15, 2018

^{*} Attach Additional Sheets If Necessary

APPENDIX III



PHONE (575) 397-6388 • FAX (575) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

COG – COPPERHEAD FEE A #003H (Leak Date: 5/14/18)

RP # 2RP-4747

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4747.

The following information includes:

- 1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 2. GPS information for sample points and sample methodology
- 3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
- 4. Laboratory analysis results summary table and original laboratory analysis reports
- 5. A copy of the initial C-141
- 6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

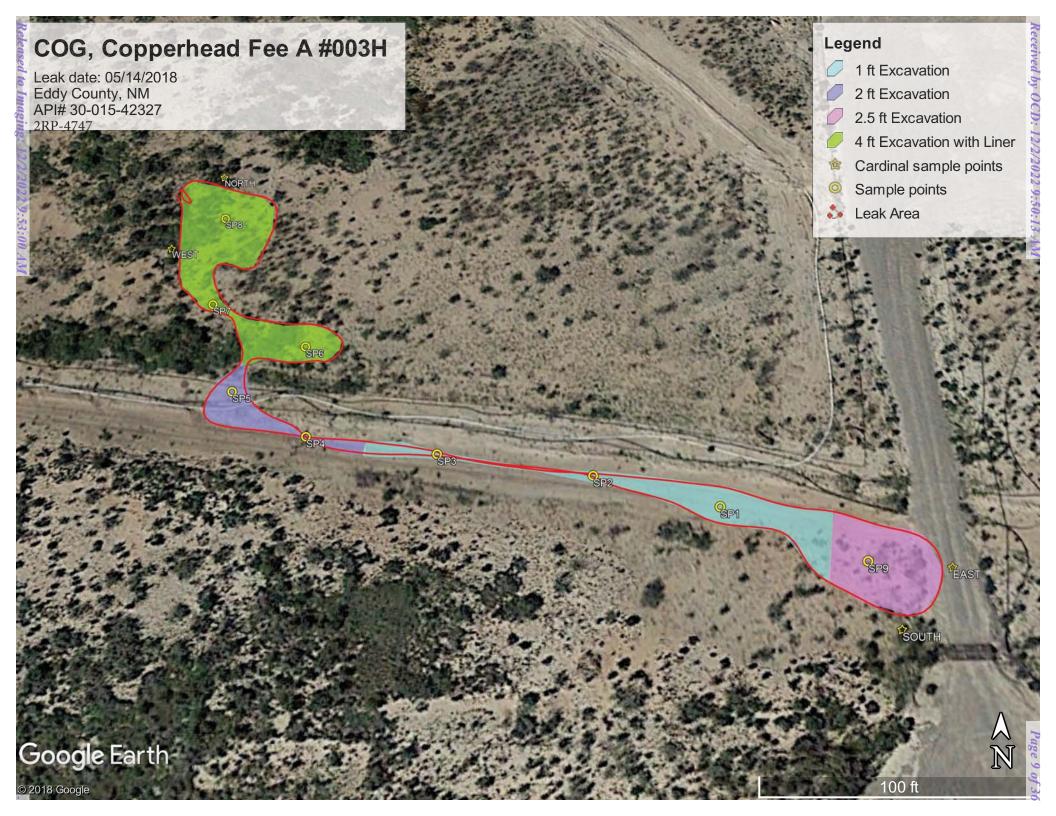
COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 (blue shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP4 and SP5 (purple shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP6 – SP8 (green shade on diagram) will be excavated to a depth of 4 feet with an impermeable liner placed in the bottom of the excavation. The leak area near SP9 (pink shade on diagram) will be excavated to a depth of 2.5 feet.

SP8 is the leak point and it will be fully delineated utilizing a rig the week of August 20th. Upon receiving the laboratory results, COG will notify the OCD and BLM with the results. The current results indicate that a liner needs to be installed therefore this plan has been submitted prior to complete delineation.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

ENVIRONMENTAL CONSULTING AND REMEDIATION SERVICES
HOBBS, NEW MEXICO • WEBSITE: www.bbcinternational.com • HOUSTON, TEXAS



COG, Cooperhead Fee A #003H

Sample points

SP1, N 32.00056 W-104.02793

SP2, N 32.00060 W-104.02810

SP3, N 32.00062 W-104.02830

SP4, N 32.00065 W-104.02848

SP5, N 32.00071 W-104.02859

SP6, N 32.00077 W-104.02850

SP7, N 32.00083 W-104.02864

SP8, N 32.00097 W-104.02865

SP9, N 32.00050 W-104.02775

NORTH, N 32.00104 W-104.02866

SOUTH, N 32.00042 W-104.02772

EAST, N 32.00049 W-104.02764

WEST, N 32.00092 W-104.02872

Received by OCD: 12/2/2022 9:50:13 AM

COG, Copperhead Fee A #003H U/L E, Section 31, T26S, R29E Groundwater: 50'





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 591592 **Northing (Y):** 3541335 **Radius:** 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/22/18 10:28 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

		Dubli	io Land Sur	vey System	(DI 66)						
•	Q64: 💙			Sec: 31 V	Tws: 265 V	Rng: 29E ∨					
		State P	lane Coordi	inate System	- NAD27						
0	x : 0	ft Y: 0	ft	Zone:		~					
State Plane Coordinate System - NAD83											
0	x : 0	ft Y : 0	ft	Zone:		~					
Degrees/Minutes/Seconds											
0	Longitude (X):	Degi	rees: 0	Minutes	0 '	Seconds: 0 "					
	Latitude (Y):	Deg	rees: 0	Minutes	: 0	Seconds: 0 "					
0	Easting (X	(): 0 ×	UTM mtrs	- NAD27 Northing	(Y): 0	mtrs Zone:					
SUBMIT											
	All Con	version Resu	ults are disp	played as <u>N</u> A	<u>D 1983 UTM</u>	Zone 13					
	Easting (X):	591592.0	mtrs	Northin	g (Y): 3541335.0	mtrs					
	~~ Please keep screen open to copy UTM values for Reports. ~~										

Laboratory Analytical Results Summary Copperhead Fee A #003H (5/14/18)

SP1 @ SURFACE SP1 @ 1' SP1 @ 2' SP1 @ 3' Analyte Method Date 7/18/18 7/18/18 7/18/18 7/18/18 mg/kg mg/kg mg/kg mg/kg BTEX 8021B Benzene < 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 BTEX 8021B <0.300 Total BTEX n/a n/a n/a Chloride SM4500CI-B 4320 608 272 224 GRO TPH 8015M <10.0 n/a n/a n/a DRO TPH 8015M <10.0 n/a n/a n/a EXT DRO TPH 8015M <10.0 n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	7/18/18	7/18/18	7/18/18	7/18/18
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		4720	512	288	240

			SP3 @			
		Sample ID	SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	7/18/18	7/18/18	7/18/18	7/18/18
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		3760	608	272	256

			SP4 @			
		Sample ID	SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	7/18/18	7/19/18	7/19/18	7/19/18
			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		32000	752	656	208
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	7/19/18	7/19/18	7/19/18	7/19/18
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		33600	720	544	160

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'
Analyte	Method	Date	7/19/18	7/19/18	7/19/18	7/19/18	7/19/18	7/19/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		29600	640	1540	1420	560	224

			SP7 @					
		Sample ID	SURFACE	SP7 @ 1'	SP7 @ 3'	SP7 @ 4'	SP7 @ 7'	SP7 @ 8'
Analyte	Method	Date	7/19/18	7/19/18	7/19/18	7/19/18	7/19/18	7/19/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		8800	4160	960	960	496	128

			SP8 @				
		Sample ID	SURFACE	SP8 @ 1'	SP8 @ 5'	SP8 @ 9'	SP8 @ 13'
Analyte	Method	Date	7/19/18	7/19/18	7/20/18	7/20/18	7/20/18
			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
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		7600	4560	9600	7600	6000
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
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'
Analyte	Method	Date	7/20/18	7/20/18	7/20/18	7/20/18	7/20/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		44800	3240	1710	432	128

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE		SOUTH @ SURFACE
Analyte	Method	Date	7/20/18	7/20/18	7/20/18	7/20/18
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		160	160	160	192

Received by OCD: 12/2/2022 9:50:13 AM



July 30, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: COPPERHEAD FEE A #3H

Enclosed are the results of analyses for samples received by the laboratory on 07/24/18 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/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 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



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: COG

Sample ID: SP 1 @ SURFACE (H802015-01)

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	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	07/27/2018	ND	432	108	400	7.69	
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	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	91.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-14	7						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact Project Number: (5/14/18)Sample Received By: Tamara Oldaker

Project Location: COG

Chloride, SM4500Cl-B	ma	/kg	Analyze	d By: AC					
Cilioriac, Si-14300ci B	ilig	/ Kg	Allalyze	u by. Ac					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	608	16.0	07/27/2018	ND	432	108	400	7.69	
Sample ID: SP 1 @ 2' (H8	802015-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	272	16.0	07/27/2018	ND	432	108	400	7.69	
Sample ID: SP 1 @ 3' (H8	802015-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
		16.0	07/27/2018	ND	432	108	400	7.69	

Sample ID: SP 2 @ SURFACE (H802015-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	07/27/2018	ND	432	108	400	7.69	

Sample ID: SP 2 @ 1' (H802015-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/27/2018	ND	432	108	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 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 D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 2 @ 2' (H802015-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/27/2018	ND	432	108	400	7.69	
Sample ID: SP 2 @ 3' (H8	802015-08)								
Sample ID: SP 2 @ 3' (H& Chloride, SM4500Cl-B	802015-08) mg,	/kg	Analyze	d By: AC					
•	-	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SP 3 @ SURFACE (H802015-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	07/27/2018	ND	432	108	400	7.69	

Sample ID: SP 3 @ 1' (H802015-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	07/27/2018	ND	432	108	400	7.69	

Sample ID: SP 3 @ 2' (H802015-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/27/2018	ND	432	108	400	7.69	

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Celey D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 3 @ 3' (H802015-12)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/27/2018	ND	432	108	400	7.69	

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: COG

RTFY 8021R

Sample ID: SP 4 @ SURFACE (H802015-13)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	22						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	07/27/2018	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	92.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.0	% 37.6-14	7						

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: (5/14/18)

Project Location: COG

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	07/27/2018	ND	432	108	400	7.69	
Sample ID: SP 4 @ 2' (H	802015-15)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	07/27/2018	ND	432	108	400	7.69	
Sample ID: SP 4 @ 3' (H	802015-16)								
•	802015-16) mg	/kg	Analyze	d By: AC					
•	-	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500CI-B Analyte	mg		<u> </u>	-	BS 432	% Recovery	True Value QC 400	RPD 7.69	Qualifier
Chloride, SM4500CI-B Analyte Chloride	mg, Result 208	Reporting Limit	Analyzed	Method Blank		,	·		Qualifier
Chloride, SM4500CI-B Analyte Chloride Sample ID: SP 5 @ SURF	mg, Result 208	Reporting Limit 16.0 5-17)	Analyzed 07/27/2018	Method Blank		,	·		Qualifier
Sample ID: SP 4 @ 3' (H Chloride, SM4500Cl-B Analyte Chloride Sample ID: SP 5 @ SURF Chloride, SM4500Cl-B Analyte	mg, Result 208 FACE (H802015	Reporting Limit 16.0 5-17)	Analyzed 07/27/2018	Method Blank ND		,	·		Qualifier

Chloride, SM4500Cl-B	mg/kg		Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33600	16.0	07/27/2018	ND	432	108	400	7.69	

Sample ID: SP 5 @ 1' (H802015-18)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	07/27/2018	ND	432	108	400	7.69	

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil Project Name: COPPERHEAD FEE A #3H Sampling Condition:

Cool & Intact Sample Received By: Tamara Oldaker Project Number: (5/14/18)

Project Location: COG

Sample ID: SP 5 @ 2' (H	802015-19)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	07/27/2018	ND	432	108	400	7.69	
Sample ID: SP 5 @ 3' (H	802015-20)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/27/2018	ND	416	104	400	3.77	
Sample ID: SP 6 @ SURI	ACE (H802015	5-21)							
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29600	16.0	07/27/2018	ND	416	104	400	3.77	

Sample ID: SP 6 @ 1' (H802015-22)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/27/2018	ND	416	104	400	3.77	

Sample ID: SP 6 @ 2' (H802015-23)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	07/27/2018	ND	416	104	400	3.77	

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 6 @ 3' (H802015-24)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	07/27/2018	ND	416	104	400	3.77	
Sample ID: SP 6 @ 4' (H8	302015-25)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/27/2018	ND	416	104	400	3.77	

Sample ID: SP 6 @ 5' (H802015-26)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/27/2018	ND	416	104	400	3.77	

Sample ID: SP 7 @ SURFACE (H802015-27)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	07/27/2018	ND	416	104	400	3.77	

Sample ID: SP 7 @ 1' (H802015-28)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	07/27/2018	ND	416	104	400	3.77	

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 7 @ 3' (H802015-29)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 960 07/27/2018 416 Chloride 16.0 ND 104 400 3.77

Sample ID: SP 7 @ 4' (H802015-30)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Analyte BS RPD Result Reporting Limit Analyzed Method Blank True Value QC Qualifier % Recovery 960 16.0 07/27/2018 416 3.77 Chloride ND 104 400

Sample ID: SP 7 @ 7' (H802015-31)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 496 07/27/2018 400 16.0 ND 416 104 3.77

Sample ID: SP 7 @ 8' (H802015-32)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyte Result Analyzed Method Blank BS % Recovery True Value QC **RPD** Qualifier Chloride 128 16.0 07/27/2018 ND 416 104 400 3.77

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: COG

RTFY 8021R

Sample ID: SP 8 @ SURFACE (H802015-33)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.8-14	2						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	95.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.0	% 37.6-14	7						

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: (5/14/18)Tamara Oldaker

Project Location: COG

Sample ID: SP 8 @ 1' (H8	802015-34)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	07/27/2018	ND	416	104	400	3.77	
Sample ID: SP 8 @ 5' (H8	802015-35)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	07/27/2018	ND	416	104	400	3.77	
Sample ID: SP 8 @ 9' (H8	802015-36)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/27/2018	ND	416	104	400	3.77	
Sample ID: SP 8 @ 13' (H	1802015-37)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	07/27/2018	ND	416	104	400	3.77	
Sample ID: SP 8 @ 16' (H	1802015-38)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	07/27/2018	ND	416	104	400	3.77	

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Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/20/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 9 @ SURFACE (H802015-39)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44800	16.0	07/27/2018	ND	416	104	400	3.77	
Sample ID: SP 9 @ 1' (H	802015-40)								
Sample ID: SP 9 @ 1' (H Chloride, SM4500Cl-B	802015-40) mg,	/kg	Analyze	d By: AC					
•	-	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SP 9 @ 2' (H802015-41)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit Analyzed		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	07/27/2018	ND	416	104	400	3.77	

Sample ID: SP 9 @ 3' (H802015-42)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/27/2018	ND	416	104	400	3.77	

Sample ID: SP 9 @ 4' (H802015-43)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/27/2018	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/20/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Analyte

Sample ID: NORTH SURFACE (H802015-44)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/27/2018	ND	416	104	400	3.77	
Sample ID: EAST SURFAC	CE (H802015-4	15)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/27/2018	ND	416	104	400	3.77	
Sample ID: WEST SURFA	ACE (H802015-	-46)							
Chloride, SM4500Cl-B	mg	/ka	Analyze	d By: AC					

Chloride	160	16.0	07/27/2018

Result

Reporting Limit

Sample ID: SOUTH SURF	ACE (H80201	5-47)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/27/2018	ND	416	104	400	3.77	

Method Blank

ND

BS

416

% Recovery

104

True Value QC

400

RPD

3.77

Qualifier

Analyzed

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Celeg D. Freene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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

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O.

ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUES

	(303) 393-2326 FAX (303) 393-247	9																				
Company Name	BBC International, Inc.									BI	LL TO					ANA	LYSI	S RE	QUE	ST		
Project Manage	r: Cliff Brunson							P.C). #:													
Address: P.O.	Box 805							Co	mpa	ny:	COG											
City: Hobbs	State: NM	Zip	88	3241				Att	n:					2								
Phone #: 575-3	397-6388 Fax #: 575-	397	-03	97				Ad	dres	ss:				ofo							1	
Project #:	Project Owner	ē						Cit	y:					6 11					1			
Project Name: (Copperhead Fee A #3H - 5 - 14	/ - <u>,</u>	8					Sta	te:		Zip:			extended								
Project Location	ı:							Ph	one	#:				2.74						1		
Sampler Name:	Jeff Ornelas							Fax	· #:				۰.,	PH						1		
FOR LAB USE ONLY		٠.	_		MA'	TRIX	(PRE	SERV	SAMPL	ING	05	1 120						1		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	Chloride	87FX								
	SP1 @ Surface	G	1		~					1	7-18-18	11:45 am	1	1								
2		G	1		-						7-18-18	12:01 pm	1									
	SP1 @ 2'	ගිය	1		/					1	7-18-18	1:11 pm	1									
	SP1 @ 3'	G	1		1					1	7-18-18	1:22 pm	1									
	SP2 @ Surface	G	1		1					1	7-18-18	1:30 pm	✓									
	SP2 @ 1'	ರತ	1		1					V	7-18-18	1:40 pm	1									
7	SP2 @ 2'	G	i		1					1	7-18-18	1:50 pm	1									
	SP2 @ 3'	G	1		1					~	7-18-18	1:59 pm	1				b					
9	SP3 @ Surface	હ	i		V	•				-	7-18-18	2:01 pm	1									
ID	SP3 @ 1'	G	1		-	-				~	7-18-18	2:15 pm	1									
	nd Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be or													ble								

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Relinquished By:	Date:	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:
1/(c)	110118	XV/		Fax Result:	☐ Yes	□ No	Add'I Fax #:
VES VILLAS	Time:	900		REMARKS:			
Relinquished By:	Date:	Received By:	- 1 1 1				
X	7-24-18 Time: 1-40	· house of	Marked				
41()	12.40	SILUMA AS	MOREC				
Delivered By: (Circle One)	- 86	Sample Condition	CHECKED BY:				
	.80	Cool Intact	(In iti als)				
Sampler - UPS - Bus - Other:	1111	Yes Yes	TO HAS				
	MINUCE	-5.60e No No	17413				

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 101 East Marland, Hobbs, NM 88240

	(505) 393-2326 FAX (505) 393-247	6																			
	BBC International, Inc.								BI	LL TO					NAL	YSIS	RE	QUE	ST		
Project Manage	r: Cliff Brunson						P.	O. #:													
Address: P.O.	Box 805						Co	mpar	ıy:	200	3		7								
City: Hobbs	State: NM	Zip	: 8	38241			At	Attn:					9								
Phone #: 575-	397-6388 Fax #: 575-	-39	7-0	397			Ac	dress	s:				Atended								
Project #:	Project Owner						Ci	ty:					7		- 1						
Project Name: (Copperhead Fee A #3H ~ 5 - 15	1-1	18				St	ate:		Zip:			ð								
Project Location	1:						Ph	one #	:				DI								
Sampler Name:	Jeff Ornelas						Fa	x #:				l "	7								
FOR LAB USE ONLY		١.			MATE	RIX	_	PRES	ERV.	SAMPL	ING	90	1-								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	Chlorid	×								
11	SP3 @ 2'	G	1		V			-	1	7-18-18	2:30 pm	1								\neg	
	SP3 @ 3'	9	l		1					7-18-18	2:39 pm	1									
	SP4 @ Surface	G	L		_				1	7-18-18	LESS -ALL ADVANCE	1	1								
	SP4 @ 1'	9	1		1		_		_	7-19-18	1 security and the second	1									
	SP4 @ 2'		Ļ		~		-	-	1	7-19-18		1									
	SP4 @ 3'	G	1		-		-	-	1	7-19-18		1									
	SP5 @ Surface	Ğ	ļĻ.		1		+		1	7-19-18		√									
18	SP5 @ 1' SP5 @ 2'	G	1	-	1	-	7-19-18 10:10 am			V											
20	SP5 @ 2'	G	1			-	+	-		7-19-18 7-19-18	10:22 am 10:39 am	1									
PLEASE NOTE: Liability as		9			-	٠.,				1-19-10	10.39 am	V									

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,

Relinquished By:	Date:	Received By:	sed upon any of the above stated re-	Phone Result:	☐ Yes	□ No	Add'l Phone #:
1200	1/20118	XV	and the same of th	Fax Result:	☐ Yes	□ No	Add'l Fax #:
VETT UNDOS	Time:	45		REMARKS:			
Relinquished By:	Date:	Received By:	1111				
1 × 11/	Time:		1111111100	*			
The State of the s	12:40	Jamara a	Lager St				왜
Delivered By: (Circle One)	-5.82	Sample Condition	CHECKED BY:				
Samular UDS Des Other	0.	Cool Intact	(Initials)				
Sampler - UPS - Bus - Other:	Corrected	Ses Pyes No No	TO #75	V.			
		NO NO	1801				

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Page 32 of

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ARDIN 101 E

ARDINAL LABORATORIES

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

Company Name				BILL TO						ANALYSIS REQUEST													
Project Manage	r: Cliff Brunson						P.	0. #:															
Address: P.O.	Box 805						C	ompa	any:	COG			pa										
City: Hobbs	State: NM	Zip:	8	8241			Attn:						Por										
Phone #: 575-3	397-6388 Fax #: 575	-397	-03	397			A	ddre	ss:				3										
Project #:	Project Owner	:					Ci	ty:					B										
Project Name: Copperhead Fee A #3H 5-14-18							St	ate:		Zip:			φ										
Project Location:							Pł	ione	#:				マ										
Sampler Name:	Jeff Ornelas						Fa	x #:					- p										
FOR LAB USE ONLY					VIATE	SIX		PRI	SERV.	SAMPL	ING	9	7										-
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	Chlorid	BTEX,										
	SP6 @ Surface	6	1		/				~	7-19-18	11:11 am	_											
	SP6 @ 1'	G	l		V		_		1	7-19-18	IN TABLE BRUS												
	SP6 @ 2'		1		r		1		/	7-19-18	-	_											
	SP6 @ 3'	G	1		V		\perp				11:49 am	2.7/2											
35	SP6 @ 4'	G	ı		V	_	-		~		12:38 pm	✓											
76	SP6 @ 5' SP7 @ Surface	G	1		N		+		1	7-19-18		✓											
71	SP7 @ Surface	G	1		~	_	-		V	7-19-18		✓											
	SP7 @ 1'	-	1		1		1			7-19-18	1 322	√											
27	SP7 @ 3'	G	1		~	_	_		-	7-19-18		✓											
PLEASE NOTE: Lightlifty or	SP7 @ 4' and Damages. Cardinal's liability and client's exclusive remedy for a	G	(arisin	a whether	V	contro	clort	d ebel	ha limited	7-19-18		✓											

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Relinquished By:	Date:	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:
1/00/1/0	4100118			Fax Result:	☐ Yes	□ No	Add'I Fax #:
VETT UINGAS	Time:	GU		REMARKS:			
Relinquished By:	Date:	Received By:	001				
	1-24-18		111111				
	Time: 12:40	Jamara Os	MALOX				
Delivered By: (Circle One)	582	Sample Condition	CHECKED BY:				
3	5.0	Cool Intact	(Initials)				
Sampler - UPS - Bus - Other:	speated	Yes Yes	TO THE				
	rucilla	No No	13 TAN				

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-2	4/6								100											
Company Name	BBC International, Inc.								BI	LL TO				Α	NAL	/SIS	REQ	UES	T		
Project Manage	r: Cliff Brunson						P.O.	#:				1 -						T			
Address: P.O	. Box 805						Con	npan	ıy:				_								
city: Hobbs	State: NN	1 Zip): {	38241			Attn	1:					pol								
Phone #: 575-	397-6388 Fax #: 5	75-39	7-0	397			Address:					entond									
Project #:	Project Ow	ner:					City:					147									
Project Name:	Copperhead Fee A #3H 5	-14	-1	8			State: Zip:					2									
Project Location:							Phone #:					_									
Sampler Name:	Jeff Ornelas						Fax	#:					MY							1	
FOR LAB USE ONLY		٥.	Г		MATRI	X	F	PRES	ERV.	SAMPL	ING	مار	1				ı				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	Chloric	BTEX								
31	SP7 @ 7'	G	1		V			-		7-19-18	2:58 pm	1			T i					\neg	
32	SP7 @ 8'	G	1		~					7-19-18	3:11 pm	1									
33	SP8 @ Surface	a	1		4			-		7-19-18	3:12 pm	1	1								
	SP8 @ 1'	G	1		~				1	7-19-18	3:15 pm	1									
35	SP8 @ 5'	G	li		1			ı		7-20-18	9:27 am	1			181						
36	SP8 @ 9'	G	1		/			v		7-20-18	10:27 am	1									
31	SP8 @ 13'	G	1		~			L		7-20-18	11:29 am	1									
38	SP8 @ 16' SP9 @ Surface	G]		~			-	1	7-20-18	12:12 pm	1									
39		G	1		~			V	-	7-20-18	12:40 pm	1									
40	SP9 @ 1'	6	1					V	1	7-20-18	12:41 pm	1									
PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and client's exclusive remedy	for any clai	m arisi	ing whether b	pased in c	ontract o	or tort,	shall be	limited	to the amount pa	id by the client for	the					die				

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,

Relinquished By:	Date:	Received By	Phone Result	∷ □ Yes	□ No	Add'l Phone #:
1 CE D . 1/20	11/20118	11/	Fax Result:	☐ Yes	□ No	Add'l Fax #:
VETT VINGES	Time:	400	REMARKS:			
Relinquished By:	Date:	Received By:				
V //	1-6770					
	Time: 72:40	Duara Wilder				
Delivered By: (Circle One)	80	Sample Condition CHECKED	BY:			
	. 0 -	Cool Intact (Initials)				
Sampler - UPS - Bus - Other:	sented -	CSC TYes TYES	75			
	usau :	5.00¢ No No 7- 7				

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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	6																			
Company Name	BBC International, Inc.								BI	LL TO				I	NAL	YSIS	RE	QUES	ST.		
Project Manage	r: Cliff Brunson						P.O.	#:													
Address: P.O.	Box 805						Con	npan	y:												
city: Hobbs	State: NM	Zip	: 8	824	1		Attn:											- 1			
Phone #: 575-3	397-6388 Fax #: 575	-39	7-0	397			Add	ress	:												
Project #:	Project Owner	-5/11					City														
Project Name: (Copperhead Fee A #3H 5-/9	1-1	-18				State: Zip:														
Project Location	1:						Pho	ne#	:												
Sampler Name:	Jeff Ornelas						Fax	#:				,									
FOR LAB USE ONLY		١.		H	MATR	IX.	F	RES	ERV.	SAMPLI	NG	3									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	Chlorid									
	SP9 @ 2'	G	1		1					7-20-18	12:47 pm	1									
	SP9 @ 3'	G	L		~			V	-	7-20-18	12:55 pm	1									
43	SP9 @ 4'	G	1		-				1	7-20-18	1:11 pm	1									
	North Surface	G	1		~			v	-	7-20-18	1:15 pm	1									
	East Surface	G	1		~			V		7-20-18	1:20 pm	1									
1.4	West Surface	G	L		-			L	1	7-20-18	1:25 pm	1									
47	South Surface	G	ı		-		4	ν	/	7-20-18	1:30 pm	1									
							_														
			_				_					_									
DI FASE NOTE: Lieblik	nd Damages. Cardinal's liability and client's exclusive remedy for	L							V-n-z												

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 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,

Relinquished By: ,	Date;	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:
1000	1/20118			Fax Result:	☐ Yes	□ No	Add'I Fax #:
VEST Wheles	Time			REMARKS:			
Relinquished By:	Date:	Received By:	001				
V0	1-24-10		11/1/1/				
	Time: :40 1	Jamara a	sac of				
Delivered By: (Circle One)	-8°	Sample Condition	CHECKED BY:				
Pot and the Contract of the Co	-3.00	Cool Intact	(Initials)	-			
Sampler - UPS - Bus - Other:	Parket 1	Yes Yes	TO THE				*
	WYILLIAM -	No No	IFF				

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Form C-141

Revised April 3, 2017

<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

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

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

			Rele	ease Notific	ation	and Co	orrective A	ction							
						OPERA	ΓOR			Report		Final Report			
				(OGRID #2179:		Contact:		ert Mcl							
				nd, TX 79701		relephone l		683-74	43						
Facility Nar	ne: Coppe	rhead Fee A	1 #003H			facility Typ	e: Flowline								
Surface Ow	ner: Priv	rate		Mineral O	wner:	Private			API No.	30-015-4	2327				
				LOCA	TION	OF RE	LEASE								
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		West Line		Coun	-			
E	31	26S	29E La	415 titude 32.00123		South ngitude -10	990 4.0292206 NAI		Vest		Eddy	/			
				NAT	URE	OF REL	EASE								
Type of Rele	ase Produce	d Water				Volume of	Release 122 bbl.		Volume Re	ecovered 1	0 bbl.				
Source of Re	lease:	El 1:	т 1				Iour of Occurrenc	ee	Date and H						
Was Immedia	ate Notice G	Flowline	Leak			If YES, To	018 10:40am Whom?		May 14, 20)18 10:40a	m				
, , as 111111 0		_	Yes	No Not Re	quired										
By Whom? S	heldon Hitc	hcock				Date and Hour May 14, 2018 2:08pm									
Was a Water	course Reac	hed?	Yes 🗵	No		If YES, Vo	olume Impacting t	he Wate	ercourse.						
If a Watercou	ırse was Imr	acted. Descri	be Fully.*	k											
Describe Cau	se of Proble	m and Remed	lial Action	n Taken.*											
				out at the transition	on. The t	ransition is t	eing repaired or r	eplaced							
Describe Are	a Affected a	nd Cleanup A	Action Tak	ten.*											
				was dispatched to sent a remediation											
I hereby certi regulations a public health should their of	fy that the in ill operators a or the environment. In ac- nment. In ac-	nformation gives required to comment. The lave failed to a dition, NMO	ven above o report ar acceptance dequately CD accep	e is true and compled of file certain rece of a C-141 report investigate and restance of a C-141 report and restance of a C-	ete to the elease no rt by the emediate	te best of my otifications a NMOCD me contamination	knowledge and u nd perform correct arked as "Final Ro on that pose a throat the operator of the	inderstar etive acti eport" d eat to gr responsi	nd that pursuions for releases not reliese ound water, billity for co	ant to NM ases which eve the ope surface wa mpliance v	OCD remay enter of the control of th	ules and ndanger f liability man health			
							OIL CONS	SERV	ATION I	DIVISIO	<u>)N</u>				
Signature:		Delling	pant												
Printed Name	e:	DeAnn Grar	nt		1	Approved by	Environmental S ₁	pecialist	i: 						
Title:		HSE Admin	istrative A	Assistant	1	Approval Da	te:	I	Expiration D	ate:					
E-mail Addre	ess:	agrant@cor	ncho.com		(Conditions o	f Approval:			Attached	П				

Phone: 432-253-4513

Date: May 15, 2018

^{*} Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 163319

CONDITIONS

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	163319
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

	Condition	Condition
Ву		Date
bha	None	12/2/2022