Closure Report

Site Description							
Site Name:	Cirrus Federal Com Oil Battery						
Company: COG Operating LLC							
Legal Description:	U/L J, Section 8, T19S, R32E						
County:	Lea County, NM						
GPS Coordinates:	N 32.66744° W 103.79521°						

Release Data

Date of Release:	11/13/2016	
Type of Release:	Produced water	APPROVED
Source of Release:	Poly flow line	By Olivia Yu at 9:58 am, May 15, 2017
Volume of Release:	8 bbls	
Volume Recovered:	7 bbls	

Remediation Specifications									
Remediation Parameters:	Excavate the entire area to a depth of 5 feet. Obtain sidewall and bottom confirmation samples. Backfill the site with clean soil.								
	NMOCD approves 1RP-4522 for closure. Like approval from BLM required.								
Remediation Activities:	04/24/2017 to 0	5/01/2017							
Plan Sent to OCD:	02/07/2017	Email from Cliff Brunson to Olivia Yu							
OCD Approval of Plan:	03/02/2017	Email from Olivia Yu to Cliff Brunson							
Plan Sent to BLM:	02/05/2017	Email from Cliff Brunson to Arthur Arias							
BLM Approval of Plan:	03/08/2017	Email from Arthur Arias to Cliff Brunson							

Supporting Documentation

Initial C-141	Signed 11/15/2016
Final C-141	Signed 05/09/2017
Site Diagram	December 2016
Groundwater Plot	450' trend map
TOPO Maps	December 2016
Lab Summary	01/10/2017 and 04/27/2017
Lab Analysis	01/10/2017 and 04/27/2017
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan as agreed upon, COG Operating, LLC requests closure approval from NMOCD.

Cliff Brunson, BBC International Inc.

05/11/2016

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

Release Notification	on and Co	orrective A	ction		
	OPERAT	FOR	🛛 Initi	ial Report	Final Report
Name of Company: COG Operating LLC	Contact:		Robert McN	eill	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone 1		432-683-744	13	
Facility Name: Cirrus Federal Com Oil Battery	Facility Typ	e: F	lowline		ningen seiseningen besteller wir der einer ster gester geschenden und die zuglichten wirdere ster einer einer g
Surface Owner: Federal Mineral Owner	ni (* 274) 1949 - Santa Santa Maria andre a 1949 - Santa Santa Maria andre and		API No	o. 30-0	25-38420
LOCATIO	ON OF REI	LEASE			
Unit LetterSectionTownshipRangeFeet from theNorJ819S32E1980	th/South Line South	Feet from the 1980	East/West Line East		County Lea
Latitu	de Longitu	de		9 7 70000 7000 000 000 000 000 000 000 0	an da oo sa waxay ka
	E OF RELI	EASE			
Type of Release: Produced Water	Volume of	8 bbls		Recovered: 7 bb	
Source of Release: Poly Flowline		our of Occurrenc 3/2016 12:40 am	e: Date and	Hour of Disc	covery:
Was Immediate Notice Given?	If YES, To		/	11/13/2016	12:40 am
🗌 Yes 🛛 No 🖾 Not Require	d				
By Whom?	Date and H				
Was a Watercourse Reached?	If YES, Vo	lume Impacting t	ne Watercourse.		
If a Watercourse was Impacted, Describe Fully.*	and the section of th	9999))))))))))))))))))))))))))))))))))			an a
Describe Cause of Problem and Remedial Action Taken.* Check valve on the poly flowline had a hole in the bottom. Replaced the	e check valve.		and the second secon	************************************	
Describe Area Affected and Cleanup Action Taken.* The release occurred within a pasture. Free standing fluids were remove	d via wannen te	uch Consta will	have the still site		
impact from the release and will present remediation work plan to the N.	MOCD for appr	oval prior to any	significant remedi	evaluated for ation activiti	es.
I hereby certify that the information given above is true and complete to	the best of my l	nowledge and un	derstand that purs	uant to NMC	CD rules and
regulations all operators are required to report and/or file certain release	notifications an	d perform correct	ive actions for rela	ssee which r	nov endenger
public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedie	ne NMOCD ma	rked as "Final Ke	port" does not reli at to around water	eve the opera	tor of liability
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve	the operator of re	sponsibility for co	, surface wai ompliance wi	th any other
federal, state, or local laws and/or regulations.					
Signature: Revecca Haskell		OIL CONS	ERVATION	DIVISIO	N
Printed Name: Rebecca Haskell	Approved by E	Invironmental Sp	ccialíst:		
Title: Senior HSE Coordinator	Approval Date	▶ ★ ★ Second State Sta	Expiration I	Date:	
E-mail Address: rhaskell@concho.com	Conditions of A	Approval:		Attached	
Date: November 15, 2016 Phone: 432-683-7443					
Attach Additional Sheets If Necessary				J	

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Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15,29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505												
Release Notification and Corrective Action												
	OPERATOR Initial Report Final Report											
	Name of Company: COG Operating LLC						bert McNeill					
			nd, TX 79701			lo. 432-683-74	43					
Facility Nar	ne: Cirrus	Federal Co	n <u>O</u> II Ba	tiery	. 1	acility Typ	e: Flowline					
Surface Ow	ner: Fedei	al		Mineral C	wner:				API No	. 30-025-3	8420	
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/	West Line	County		
J	8	19S	32E	1980	5	South	1980		East	Lea Count	y, NM	
	Latitude <u>N 32.66744°</u> Longitude <u>W 103.79521°</u>											
						OF RELI		_				
Type of Rele	ase: Produc	ed water		INAL	UILL		Release: 8 bbls		Volume R	lecovered: "	7 bbls	
Source of Re						Date and H	our of Occurrenc	e	Date and	Hour of Dis	covery	
337 1 12							@12:40 am		11/13/201	6@12:40 a	ım	
Was Immedia	ate Notice C		Yes 🗵	No 🛛 Not Re	equired	If YES, To	whom?					
By Whom?						Date and H	our:					
Was a Water	course Read					If YES, Vo	lume Impacting t	he Wat	ercourse.			
			Yes 🗵	No								
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*								
Describe Cau	ise of Proble	em and Reme	dial Actio	n Taken *								
Check valve	on the poly	flowline had	a hole in t	he bottom. Repla	ced the c	heck valve.						
Describe Are	a Affected	and Cleanup /	Action Tal	ken.*						· · ·		
This selecter :	t_	4		4				T1			11-21	1
				truck was dispate cordance with the								
				on 03/08/2017.			,					
L hereby certi	ify that the i	nformation g	ven abov	e is true and comp	lete to th	e best of my	knowledge and u	nderete	nd that nure	mant to NM		ee and
				nd/or file certain r								
public health	or the envi	ronment. The	acceptan	ce of a C-141 repo	ort by the	NMOCD m	arked as "Final R	eport"	does not reli	ieve the oper	rator of li	ability
				investigate and r								
		ws and/or regi		ptance of a C-141	пероп и	bes not retiev	e the operator of i	respons	sibility for c	ompliance w	/itn any c	other
							OIL CON	SERV	ATION	DIVISIC)N	
Signature:	Valle	Har	ill_									
Signature: /	and					Annrovad hu	Environmental S	noniali	M			
Printed Name	e: Rebecca	Haskell						- 	st.			
Title: Senior	HSE Coor	dinator				Approval Dat	e: 5/15/2017	7	Expiration	Date: XX/X	x/xxx	<
E-mail Addre	ess: rhaskel	ll@concho.co	m			Conditions of	Approval:					
	_						D approves			Attached		
Date: Mai				e: (432) 683-744.	3		522 for closu	ıre.		1		
Attach Addi	monal She	ets If Necess	ary			1						



COG, Cirrus Federal Com Oil Battery

Sample points, Hand auger SP1, N 32.66755 W-103.79522 SP2, N 32.66745 W-103.79520 SP3, N 32.66736 W-103.79525

NORTH WALL, N 32.66758 W-103.79514 SOUTH WALL, N 32.66729 W-103.79528 EAST WALL, N 32.66744 W-103.79515 WEST WALL, N 32.66745 W-103.79527

COG, Cirrus Fed Com Oil Battery U/L D, Section 17, T19S, R32E Groundwater: 450'



2					00	U		e Enginee		
	vva	ter	011ء	imn		erag	je De	pth to	vvate	Γ
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer	(R=POD has b replaced, O=orphaned,	been	(quarte	ers are 1=N	W 2=NE 3=S	SW 4=SE)				
serves a water right file.)	C=the file is closed)		(quarte	ers are smal	llest to larges	t) (N2	AD83 UTM in m	eters)	(In feet)	
POD Number	PO Su Code bas		QQQ 4 64 16 4	-	vs Rng	х	Y	DistanceDepthV	VellDenthWa	Water ter Column
<u>CP 01656 POD1</u>	Couc bas		3 4 3	_	8	613368	3613646	1327	70	
							Averag	ge Depth to Water:		
								Minimum Depth:		
								Maximum Depth:		
Record Count: 1										
<u>UTMNAD83 Radiu</u>	<u>is Search (in met</u>	ters):								
Easting (X): 613	3809	Nort	hing (Y):	3614899		Ι	Radius: 1700			
The data is furnished by the the accuracy, completeness,							hat the OSE/ISC r	nake no warranties, ex	xpressed or implie	ed, concerning
5/11/17 3:24 PM								WATER COLUM	IN/ AVERAGE	DEPTH TO

WATER

UTM Conversion Tool

	I	Public Land Su	rvey System (PLSS)			
Q64:	Q16: NW	Q4: NE	Sec: 17 Tws:	19S R	ng: 32E	
8	Sta	ate Plane Coord	linate System - NAD	27		
X:	ft Y:		Zone:			
	Ctu	to Plana Coore	lingto System NAC	02		
X:	ft Y:	ft	linate System - NAD	03		
						_
		Degrees/M	inutes/Seconds			
Longitude (х): С	Degrees: °	Minutes: '	Seconds:		
Latitude (Y): [Degrees: °	Minutes: '	Seconds:		
						-
E 11 00			- NAD27			
Easting (X):	mtrs N	lorthing (Y):	mtrs Zone:			
			UBMIT			
Eastin	All Conversion	Results are dis	splayed as <u>NAD 198</u> Northing (Y): 3		<u>13</u> mtrs	
3			_			
	~~ Please ke	ep screen open t	o copy UTM values for	Reports. ~~		



Groundwater Plot

COG Cirrus Federal Com Oil Battery





COG

Cirrus Federal Com Oil Battery

GREENWOOD LAKE QUADRANGLE NEW MEXICO 7.5 MINUTE SERIES (TOPOGRAPHIC) UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY 187811 <S 103 Nas See. 1684 38761 0691 88 ×3738 ⁶0-37.731 LEA 3733 `~~~~ 36741 DH 37411 \$57321-CH SHEET 13799 G.G. 37771 -37311 3784 STAT ST T -3747 37621 Этезт 2-73 0 4 E 5/12 T S Isize with the đ., 20 Zarost 537346 \$ B 768 R E Tide С H 0 36717 BRTS DUG е́ет, 37481 Z sejet B 30151 56. BOSET 3675 36621 13 Stranger 36827 I Nº 35.5 ⊕ 2 - 74 - 3695T S 04 ×3707 F 138T. 3728 a Piero seen seen 367aj) 609 5 Jests 7 12.5 1 2 2 36791 Jer Hit 30731 840 ---smat Gravei 37/27 1382 36791 50491 +3665 3648T 💡 36681 3672 3644 arrivel - 10 - 1646 3635 3655T Ser. 2.26 3643 -Mer 182 ×36.7 TROTO 36521 1631 - 21 36281 3593 3675 3661 3610 352 35531 336.T (92-13) Ę. 3952 18 3600 P.1 DH 81 10000 36037 17' 6421 Gree nucod 44951 민전 Dł 3500 ASM 3953 3519 2 ч, è K. 1. 3612 Š, 100 1.ÉDD AND 3593 H_5-80 -Griefet 3884T अमे - 214 .35751 Sigit Pr^o (3582) 35388 LEA U 36361 '35ខ្លាក diame. # 3466T SCALE 1:24 000 THE UNITED STATES GEOLOGICAL SURVEY USG, NOVNOAN ROAD LEGEND ERAL PHOTOGRAPHS TAKEN ES 5000 6080 7808 8000 5008 10.000 TRSE ME 1000 2000 3000 40 0 CANTERIAL INC. RATE GOD TEXA... RATEON NOTTO BELIANTION ONITO BELIANTION TOM NUMBER NUM NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER TRANSVERSE MERCATI TE GRID TRANSVERSE MERCATI TEE" 0'M' EAST 9'39' EAST ມ່ອ 2 3 1 Teen Fills 2 Malfonar 5 Stagar Catar 7 8 8 Iagar Catar 7 8 8 Iagar Catars () Interstate Route (U.S. Route () State Route 0 NETERS 1 CONTOUR INTERVAL IN FEE PROVISIONAL MAP Produced from origins manuscript drawings. Info mation shown as of date o field check. GREENWOOD LAKE , NEW MEXICO ries of an PROVISIONAL EDITION 1985 THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS FOR SALE BY US. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092 32103-F7/TF-024

oritioned by



Cirrus Federal Com Oil Battery



Laboratory Analytical Results Summary COG, Cirrus Federal Com Oil Battery

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17	1/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4720	7730	800	96

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17	1/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4000	7200	1330	96

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17	1/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4130	7730	1360	80

		Sample	North @ 1'
Analyte	Method	Date	1/10/17
			mg/Kg
Chloride	SM4500CI-B		32

		Sample	EAST @ 1'
Analyte	Method	Date	1/10/17
			mg/Kg
Chloride	SM4500CI-B		32

		Sample	South @ 1'
Analyte	Method	Date	1/10/17
			mg/Kg
Chloride	SM4500CI-B		16

		Sample	WEST @ 1'
Analyte	Method	Date	1/10/17
			mg/Kg
Chloride	SM4500CI-B		32

Laboratory Analytical Results Summary Cirrus Fed Com Oil Battery

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Analyte

Confirmation		Sample	SP1 @ 5'
Analyte	Method	Date	4/27/17
			mg/Kg
Chloride	SM4500CI-B		96

		Sample	West Wall
Analyte	Method	Date	4/27/17
			mg/Kg
Chloride	SM4500CI-B		96

East Wall

4/27/17

Sample Date

Confirmation		Sample	SP2 @ 5'
Analyte	Method	Date	4/27/17
			mg/Kg
Chloride	SM4500CI-B		96

Confirmation		Sample	SP3 @ 5'
Analyte	Method	Date	4/27/17
			mg/Kg
Chloride	SM4500CI-B		80

			mg/Kg
Chloride	SM4500CI-B		112
		Sample	South Wall
Analyte	Method	Date	4/27/17

Method

Chloride	SM4500CI-B		96
		Sample	North Wall

Т

		Sample	North Wall
Analyte	Method	Date	4/27/17
			mg/Kg
Chloride	SM4500CI-B		112



January 17, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CIRRUS FED COM

Enclosed are the results of analyses for samples received by the laboratory on 01/13/17 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

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. Keine

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:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H700091-01)

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	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 1 @ 3' (H700091-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 1 @ 5' (H700091-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 1 @ 7' (H700091-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/16/2017	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

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:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H700091-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 2 @ 3' (H700091-06)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 2 @ 5' (H700091-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 2 @ 7' (H700091-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 3 @ 1' (H700091-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4130	16.0	01/16/2017	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celecz D. Keine

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:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SP 3 @ 3' (H700091-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 3 @ 5' (H700091-11)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 3 @ 7' (H700091-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: NORTH @ 1' (H700091-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/16/2017	ND	432	108	400	3.64	

Sample ID: EAST @ 1' (H700091-14)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/16/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

Celecz D. Keine

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:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SOUTH @ 1' (H700091-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/16/2017	ND	432	108	400	3.64	

Sample ID: WEST @ 1' (H700091-16)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/16/2017	ND	432	108	400	3.64	

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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 sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Loratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

505) 393-2326 FAX (100
Company Name: BBC International, Inc. Project Manager: Cliff Brunson	P.O. #:		
Address: P.O. Box 805	Company / MA		
	Zip: 88241 Attn:		
5-397-6388 · Fax #:	575-397-0397 Address:		
Project #: Project Owner:	city:		
Project Name: Cur PULS ACL	COM State: Zip:		
Project Location:	Phone #:		
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Page 7 of 8

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Inter- UPS - Bus - Other: # 75 5.62 Interview of an interview of the performance of services bereunder by Cardinal regardless of whether such claim is based upon any of the unshed By: Interview Date: Interview Date: Interv	I EASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the anount paid by the client for the paralyses. All claims including those for inegligence and any other cause whatsoever shall be deemed waived unless made in writing and treacived by Clarinal within 30 days after completion of the applicable analyses. All claims including those for incidental or consequential damages, including without limitation, basies interruptions, less of use, or loss of ports incurred by client, its subsidiaries, and the applicable analyses.	Sample I.D. Sp3 @ 5- Fastle [South @ [South @ [NTUS Fideral (and	RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 19: BBC International, Inc.
Sinder by Cardinal, regardless of wrether such claim is based	for any claim arising whether based in contract or fort, strat- be deemed waived unless made in writing and received to cling without limitation, business interruptions, loss of use,	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	Zip: 88241 4tt 5-397-0397 Adt er: Cit er: Sta Sta Fa	ES 8240 476
d upon any of the acove stated reasons or otherwse. Phone Result: Fax Result: REMARKS: CHECKED BY: OHIOTALS	shall be limited to the amount paid by the client for the elect by Cardinal within 30 days after completion of the a elect by Cardinal within 30 days after completion of the automatic by client. Its subsidiaries use, or loss of profits incurred by client. Its subsidiaries	ACID/BASE: ICE / COOL OTHER : DATE TIME	Company:	BILL TO
□ Yes □ No	the capticable issues	STATE CHU	IRIDE	
Add'l Phone #: Add'l Fax #:				ANALYSIS REQUEST



May 05, 2017

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

RE: CIRRUS FED COM OIL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/28/17 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

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. Keine

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:	04/28/2017	Sampling Date:	04/27/2017
Reported:	05/05/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM OIL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	Cog - Maljamar		

Sample ID: SP1 @ 5 (H701145-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/01/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 5 (H701145-02)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/01/2017	ND	432	108	400	0.00	

Sample ID: SP3 @ 5 (H701145-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/01/2017	ND	432	108	400	0.00	

Sample ID: SP4 @ WW (H701145-04)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/01/2017	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

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:	04/28/2017	Sampling Date:	04/27/2017
Reported:	05/05/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM OIL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	Cog - Maljamar		

Sample ID: SP5 @ EW (H701145-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/01/2017	ND	432	108	400	0.00	

Sample ID: SP6 @ SW (H701145-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/01/2017	ND	432	108	400	0.00	

Sample ID: SP7 @ NW (H701145-07)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/01/2017	ND	432	108	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

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101 East Marland, Hobbs, NM 88240	CHAIN-OF-COSTODT AND ANALTSIS REQUEST
(505) 393-2326 FAX (505) 393-2476	
1.000	BILL TO ANALYSIS REQUEST
Project Manager: Cliff Brunson	
Address: P.O. Box 805	Company: // / /
city: Hobbs State: NM Zip: 88241	Attn: UC
5-397-6388	Address:
Project #: Project Owner: CO C	City:
~ oil Batter	State: Zip:
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+ Cardinal cannot accent vorhal channes Please fay written channes to	505-393-2426

From:	Yu, Olivia, EMNRD
To:	Cliff Brunson; Houston, Kristen, EMNRD; Tucker, Shelly
Cc:	Oberding, Tomas, EMNRD; "Rebecca Haskell"; "Ken Swinney"; "Jennifer Gilkey"; "Kathy Purvis"
Subject:	RE: COG Cirrus Federal Com Oil Battery
Date:	Thursday, March 2, 2017 9:23:32 AM
Attachments:	Reviewed 1RP4522 Remediation Packet Cirrus Federal Com Oil Battery.pdf

Dear Mr. Brunson:

NMOCD approves the delineation workplan for 1RP-4522. Please see the attachment for your records.

Olivia

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Wednesday, March 1, 2017 10:41 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Houston, Kristen, EMNRD
<Kristen.Houston@state.nm.us>
Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>; 'Rebecca Haskell'
<RHaskell@concho.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Jennifer Gilkey'
<jgilkey@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>
Subject: RE: COG Cirrus Federal Com Oil Battery

Olivia,

Please see the following responses to the conditions below:

- 1. Excavation will be to 5 ft. bgs and confirmatory bottom and sidewall samples will be obtained.
- 2. Samples were collected by hand auger.
- 3. SP1 was collected by hand auger next to the poly pipe that is on the surface and SP3 was collected by hand auger in a dirt road.
- 4. A scaled digital map and documentation of depth to groundwater will be included in the final report.

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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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Wednesday, February 22, 2017 12:02 PM
To: Cliff Brunson <<u>cbrunson@bbcinternational.com</u>>; Lynch, Kristen, EMNRD
<Kristen.Lynch@state.nm.us>
Cc: Oberding, Tomas, EMNRD <<u>Tomas.Oberding@state.nm.us</u>>; 'Rebecca Haskell'
<<u>RHaskell@concho.com</u>>; Ken Swinney <<u>kswinney@bbcinternational.com</u>>; Jennifer Gilkey
<jgilkey@bbcinternational.com>; Kathy Purvis <<u>kathy@bbcinternational.com</u>>
Subject: RE: COG Cirrus Federal Com Oil Battery

Dear Mr. Brunson:

The workplan for 1RP-4522 is approved with the following conditions. Please confirm.

1) Excavate to 5 ft. bgs and obtain confirmatory bottom and sidewall samples.

2) Provide a description of the sample methodology.

3) Where and how were SP1 and SP3 sampled? On the drawing, these sample locations are directly over a poly line and road, respectively.

4) A scaled digital map and documentation of depth to GW is required in the closure report.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

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

To: Lynch, Kristen, EMNRD <<u>Kristen.Lynch@state.nm.us</u>> Cc: Oberding, Tomas, EMNRD <<u>Tomas.Oberding@state.nm.us</u>>; Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>; 'Rebecca Haskell' <<u>RHaskell@concho.com</u>>; Ken Swinney <<u>kswinney@bbcinternational.com</u>>; Jennifer Gilkey <<u>jgilkey@bbcinternational.com</u>>; Kathy Purvis <<u>kathy@bbcinternational.com</u>>

Subject: COG Cirrus Federal Com Oil Battery

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the COG Cirrus Federal Com Oil Battery release. I have attached the information packet that we used in our discussion on 1/25/17 with a cover page describing the remediation plan that we agreed upon.

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

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: <u>cbrunson@bbcinternational.com</u>



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From:	Arias, Arthur
То:	Cliff P. Brunson; olivia.yu@state.nm.us
Cc:	Oberding, Tomas, EMNRD; Rebecca Haskell; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject:	COG Cirrus Federal Com Oil Battery, Work plan for 1RP-4522
Date:	Wednesday, March 8, 2017 8:06:23 AM

BLM approves the delineation plan for the location. Thank you.....

Arthur Arias <u>aaarias@blm.gov</u> Environmental Protection Specialist Bureau Of Land Management,Carlsbad Field Office 575-234-6230 Cell 575-499-3378







































