

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 – BRANEX COG FEDERAL #010 (Leak Date: 9/24/16)

RP # 1RP-4468 API # 30-025-40871

This delineation workplan and remediation proposal addresses the release associated with RP # 1 RP-4468.

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:

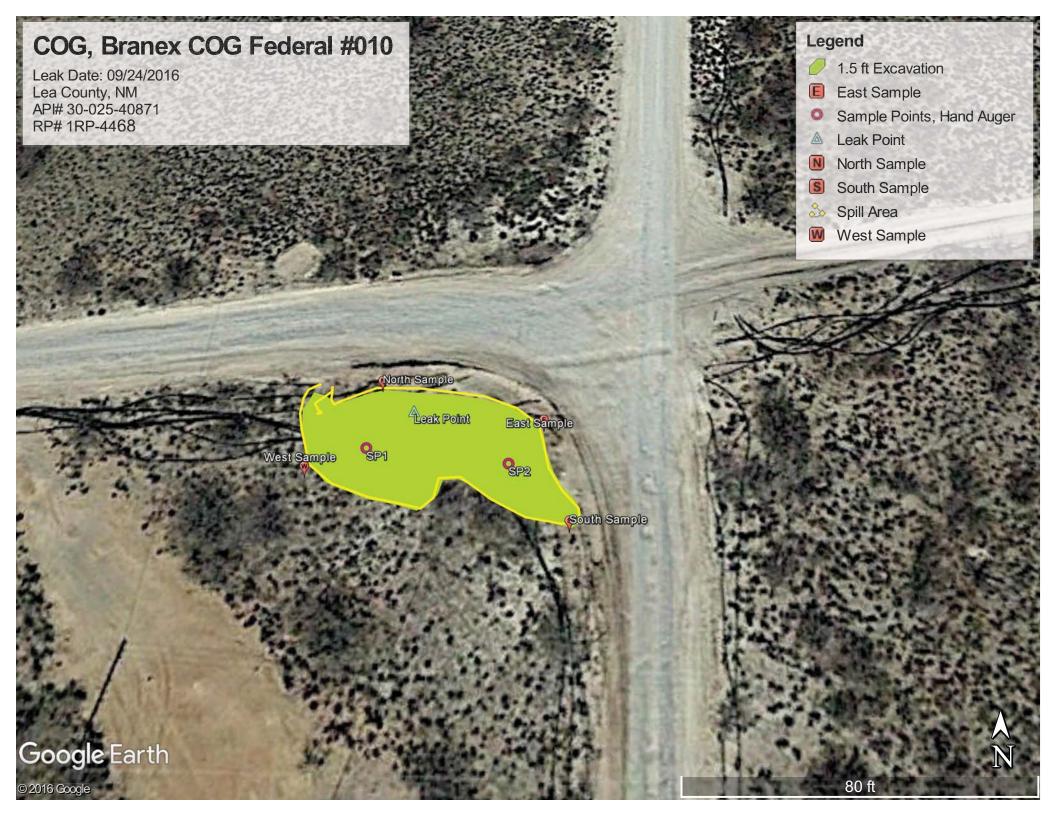
COG will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 1.5 feet. Deeper confirmation samples were collected on 4/26/17 per the NMOCD's request.

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.

NMOCD approves of the delineation and proposed remedial activity for 1RP-4468 with one condition: Bottom and sidewall confirmation samples at 1.5 ft. bgs. If samples exceed permissible levels, excavate to 2 ft. bgs.

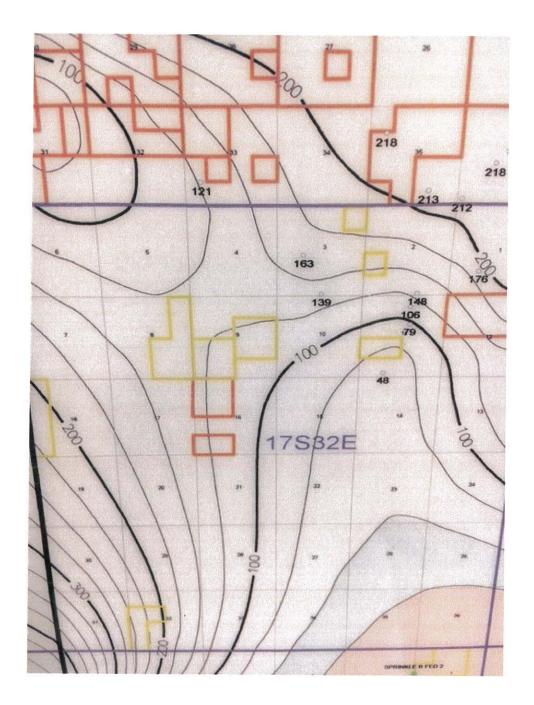
> **APPROVED** By Olivia Yu at 9:53 am, Jun 28, 2017



COG, Branex COG Federal #010

Samples, Hand Auger SP1, GPS point: N 32.84734° W-103.77554° SP2, GPS point: N 32.84733° W-103.77542°

Samples, Hand Auger North Sample, GPS point: N 32.84739° W-103.77553° South Sample, GPS point: N 32.84728° W-103.77537° East Sample, GPS point: N 32.84736° W-103.77539° West Sample, GPS point: N 32.84732° W-103.77559°





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): 614363

Northing (Y): 3635023

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.

2/27/17 11:55 AM

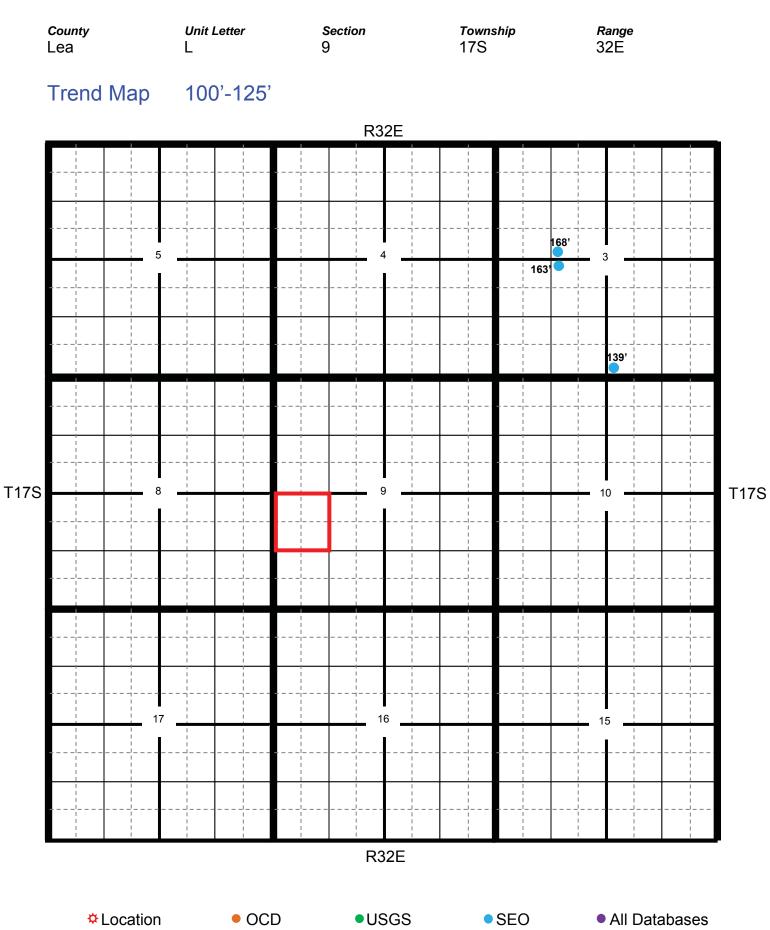
WATER COLUMN/ AVERAGE DEPTH TO WATER

• Q64: • Q16: NW Q4: SW Sec	System (PLSS) :: 09 ∨ Tws: 17S ∨ Rng: 32E ∨					
State Plane Coordinate	zone:					
State Plane Coordinate	Zone:					
Degrees/Minutes Longitude (X): Degrees: 0 • Latitude (Y): Degrees: 0 •	Seconds Minutes: 0 ' Seconds: 0 '' Minutes: 0 ' Seconds: 0 ''					
○ Easting (X): 0 mtrs Nor)27 thing (Y): 0 mtrs Zone:					
SUBMIT All Conversion Results are displayed as NAD 1983 UTM Zone 13 Easting (X): 614363.0 mtrs Northing (Y): 3635023.0 mtrs						
~~ Please keep screen open to copy	UTM values for Reports. ~~					



Groundwater Plot

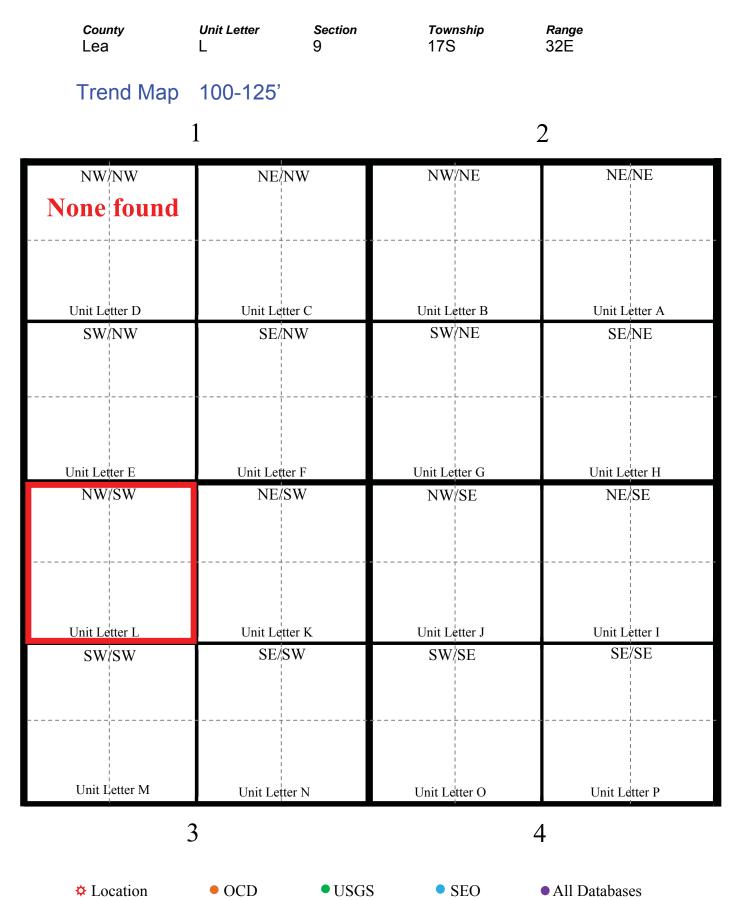
COG Branex COG Federal #010





Section Quarters

COG Branex COG Federal #010



Laboratory Analytical Results Summary Branex COG Federal #010

			Sample	North @ 1'
Analy	te	Method	Date	1/11/17
				mg/Kg
Chloride		SM4500CI-B		48

Method

Analyte

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 5'
Analyte	Method	Date	1/11/17	1/11/17	1/11/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		3160	32	<16.0	48

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP1 @ 5'
Analyte	Method	Date	1/11/17	1/11/17	1/11/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		3200	16	<16.0	48

			mg/Kg
Chloride	SM4500CI-B		32
		Sample	SOUTH @ 1'
Analyte	Method	Date	1/11/17
			mg/Kg
Chloride	SM4500CI-B		32

Sample

Date

EAST @ 1' 1/11/17

		Sample	WEST @ 1'
Analyte	Method	Date	1/11/17
			mg/Kg
Chloride	SM4500CI-B		48



January 17, 2017

Cliff Brunson BBC International, Inc.

·

P.O. Box 805

Hobbs, NM 88241

RE: BRANEX

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/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:	01/13/2017	Sampling Date:	01/11/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	BRANEX	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H700092-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	01/16/2017	ND	432	108	400	3.64	

Sample ID: SP 1 @ 2' (H700092-02)

Chloride, SM4500CI-B	mg/kg		Analyzed 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: SP 1 @ 3' (H700092-03)

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

Sample ID: SP 2 @ 1' (H700092-04)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	01/16/2017	ND	432	108	400	3.64	

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*=Accredited Analyte

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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:	01/11/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	BRANEX	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SP 2 @ 2' (H700092-05)

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

Sample ID: SP 2 @ 3' (H700092-06)

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

Sample ID: NORTH @ 1' (H700092-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/16/2017	ND	432	108	400	3.64	

Sample ID: EAST @ 1' (H700092-08)

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

Sample ID: SOUTH @ 1' (H700092-09)

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

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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:	01/11/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	BRANEX	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: WEST @ 1' (H700092-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/16/2017	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

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

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Celey D. Keene, Lab Director/Quality Manager

Relinquished By: Delivered By: (Cfrcle One) Sampler - UPS - Bus - Other	Relinquished By:	PLEASE NOTE: Lability and Damages. Cardinal's lability analyses. All claims including those for negligence and a service. In no event shall Cardinal be liable for snoderinal service.	54	8-	20	<i>(</i> Л .		ia	•	H100092	Lab LD.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #: 575-39	city: Hobbs	Address: P.O. E	Project Manager:	Company Name:	AR AR
(Cfrcle One) Bus - Other: #76	ad of or related to the performance of lawloss Date: Tuppe:	amages. Cardina's liability and client's exclu- tose for negligence and any other cause wha nal be liable for incidental or consequential da	South & 1	EAST	NINDTH 3	2 2.	< N2 01-		20101		Sample I.D.		Depad	July (MMANY	REANEY	Proj	575-397-6388 Fax #:	Sta	Box 805		BBC International, Inc.	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476
3/17 Repetived	- C	sive remedy for any claim arising whether based in alsoever shall be deemed waived unless made in amages, including without limitation, business inte	20	1. 61 1	1 13	C1 1	1 1 2	21 1	V	# CON GROU WAST SOIL	B OR (C)OM ITAINERS NDWATER EWATER	A MATRIX	HERMANDER			Project Owner:	575-	State: NM Zip: 88241			C.	TORIES , NM 88240) 393-2476
By: Sample Condition Cool Intact Pres Pres No No No	ch daim is based income stated to	LEASE NOTE: Lability and Damages. Candina's liability and client's exclusive remedy for any client ansing whether based in contract or tort, shall be limited to the amount paid by the client's for the naives. All claims including these for perigrams and any other cause whatsoevers shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable mayes. All claims including these for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, ence.	N. 1. 1.	1111	1.11-1	1-11-1	111 2	(+11-1) A	V	OIL SLUDO OTHE ACID/I ICE / C OTHE	R : BASE: ··· COOL	RIX PRESERV. SAMPLING	Fax #:	#	State: Zip:	city: UV	Address:	Attn: 2000	Company:	. P.O. #:	BILL TO	
N	asons of otherwise Phone Result: Yes Fax Result: Yes REMARKS:	amount paid by the client for the 30 days after competion of the applicable nourned by client, its subsidiaries.	100 /	N. QSI.		1.1000 1		The Aller	020 1	TIME	HLO.	R	IX.)E				K.				CHAIN-UF-CUS
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	•			•			4															1/1



May 04, 2017

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

RE: BRANEX COG FED #010

Enclosed are the results of analyses for samples received by the laboratory on 04/27/17 13:45.

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/ga/lab_accred_certif.html.

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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:	04/27/2017	Sampling Date:	04/26/2017
Reported:	05/04/2017	Sampling Type:	Soil
Project Name:	BRANEX COG FED #010	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SP1 @ 5' (H701134-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/28/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 5' (H701134-02)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/28/2017	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

O. Box 805		P.O. #: Company:		
City: Hobbs State Phone #: 575-397-6388 Fax #:	State: NM Zip: 88241 ax #: 575-397-0397	Attn: Address:		
Project #: Projec	Project Owner: MDG	City:		
Project Name: PLANEX CO.	010 # 011 10.0	State: Zip:		
Project Location:		#:		
Sampler Name: ROGER HERINAUCC	MANDEZ	Fax #:	NE .	
FOR LAB USE ONLY		PRESERV. SAMPLING	Rii	
Lab I.D. Sample I.D.	(G)RAB OR (C # CONTAINER GROUNDWAT WASTEWATE SOIL OIL SLUDGE	ACID/BASE: CE / COOL DTHER : DATE		
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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 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 anolicable.	e remedy for any claim arising whether based in contrac ever shall be deemed waived unless made in writing an	in contract or tort, shall be limited to the amount paid by the client for the writing and received by Cardinal within 30 days after completion of the ar	on of the anolicable	
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise.	ges, including without limitation, business interruptions, ereunder by Cardinal, regardless of whether such claim	loss of use, or loss of profits incurred by client, its s is based upon any of the above stated reasons or c	ubsidiaries, Iherwise.	
March Hundrate Time:	W/// Received By:	Phone Result: Fax Result: REMARKS:	Phone Result: Ves No Add'I Phone #: Fax Result: Yes No Add'I Fax #:	
	27-17 Received By:	M/ N/N		

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

Page 4 of 4

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

Form C-141 Revised August 8, 2011

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

Notification		

	OPERATOR	Initial Report	Final Repor
Name of Company: COG Operating LLC	Contact: Robert McNeill	and the second	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077		********
Facility Name: BRANEX COG FEDERAL #010	Facility Type: Battery		

Surface Owner: Federal

Mineral Owner: Federal

API No. 30-025-40871

LOCATION	
THE REAL PROPERTY AND	 The second s

×.

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	9	17S	32E	1650	South	330	West	Lea
					Contracting of the operation of the second se	And the second se	And the second	nan ar feining an

32.846405,-103.7790375

NATURE OF RELEASE

I FAR I FA I TARE		AND A DESCRIPTION OF A			
Type of Release: Produced Water	Volume of Release: 25 bbls PW	Volume 20 bbls P	Recovered:		
Source of Release: Flow line	Date and Hour of Occurrence: 9/24/2016 @ 7:00 PM	Date and	W Hour of Discovery: 6 @ 7:00 PM		
Was Immediate Notice Given?	If YES. To Whom?				
By Whom? Dakota Neel	Date and Hour: 9/26/2016		an an said ann a Mhàir An Aonaichtean ann an ann an tha ann an Airdin An Airdin ann grann gun agus an Airdin Air		
Was a Watercourse Reached?	If YES, Volume Impacting the W	/atercourse.	ner för anver er op socialiseten konstantion att sociale att sociale att socialiset att socialiset occupient (
If a Watercourse was Impacted, Describe Fully.*			n an		
Describe Cause of Problem and Remedial Action Taken.* This release occurred when a truck pulling a trailer hit the produced wa	ater line. The damaged portion of the v	vater line was	replaced.		
Describe Area Affected and Cleanup Action Taken.* This release occurred and remained on the lease road. Vacuum to Concho will have the spill site sampled to delineate any possible contain NMOCD for approval prior to any significant remediation work.	aination from the release and we will p	resent a reme	diation work plan to the		
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 0 should their operations have failed to adequately investigate and remedi or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective a the NMOCD marked as "Final Report" ate contamination that nose a threat to	etions for rele does not reli sround water	ases which may endanger eve the operator of liability surface water, humon health		
Signature:	OIL CONSER	VATION	DIVISION		
Printed Name: Dakota Neel	Approved by Environmental Special	ist:			
Title: Environmental Coordinator	Approval Date:	Expiration E	Date:		
E-mail Address: dneel2@concho.com	Conditions of Approval:		Attached		
Date: October 5, 2016 Phone: 575-748-6933			a an intervention of the second secon		

* Attach Additional Sheets If Necessary