	SITE INFORMATION										
	R	eport Type	e: Work P	lan :	2RP-4083	3					
General Site In	formation:										
Site:		Burch Keely	Unit #933H								
Company:		COG Operati	_ =								
Section, Towns	ship and Range		Sec. 13	T 17S	R 29E						
Lease Number	:	API No. 30-015-40970									
County:		Eddy County	Eddy County								
GPS:			32.835019° N 104.035119° W								
Surface Owner		Federal									
Mineral Owner Directions:	:	From the intere	action of Huar 02	/I ovington	Hund and Kau	ranee Rd in rural Eddy County, travel					
		north on Kewanee Rd for approximately 1.0 mi, turn east onto the lease road for approximately 330 feet to the location on the south side of the lease road.									
Release Data: Date Released:		1/16/2017		T							
Type Release:		Oil & Produce	ed Water								
Source of Conta	amination:	Flowline	od Water								
Fluid Released:		2 bbls oil & 3	bbls water								
Fluids Recovere	ed:	1 bbl oil & 0 b	bl water								
Official Commi	unication:										
Name:	Robert McNeil				Ike Tavare:	z					
Company:	COG Operating, LI	_C			Tetra Tech	1					
Address:	One Concho Cente	er			4000 N. Big	g Spring					
	600 W. Illinois Ave				Ste 401						
City:	Midland Texas, 79	701			Midland, Te	exas					
Phone number:	(432) 686-3023				(432) 687-8						
	(432) 684-7137				(- ,						
Fax:	1(432) 684-7137										

Danking Critoria		
Ranking Criteria		
Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	150'-175'
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	One Data
200 ft - 1,000 ft.	10	-
>1,000 ft.	0	0
Total Ranking Score:	0	
	contable Cail DDAL /r	malka
	ceptable Soil RRAL (r	
Benze		TPH
10	50	5,000



April 28, 2017

Mike Bratcher Environmental Engineer Specialist Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Work Plan for the COG Operating LLC., Burch Keely Unit #933H, Unit E, Section 13, Township 17 South, Range 29 East, Eddy County, New Mexico. 2RP-4083

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC., (COG) to prepare a work plan for the release assessed by COG at the Burch Keely Unit #933H, Unit E, Section 13, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.835019°, W 104.035119°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on January 16, 2017, and released approximately two (2) barrels of oil and three (3) barrels of produced water due to pinhole leaks in a flowline. Approximately one (1) barrel of oil was recovered using a vacuum truck. However, none of the produced water was recovered. The spill is located in the pasture to the southeast of the facility and measures approximately 20' x 90'. The initial C-141 form is included in Appendix A.

Groundwater

No water wells were listed within Section 13 on the New Mexico Office of the State Engineer's database. The nearest well is located in Section 22, approximately 2.15 miles to the southwest of the site, with a reported depth of approximately 76' below surface. This well is located in a draw area with a surface elevation of approximately 3,548' above sea level. The elevation at the site is approximately 3,635' above sea level. Based on the relative elevation, the estimated depth to groundwater at the site is approximately 160' below surface. Additionally, according to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is shown to be between 150' and 175' below surface. The groundwater data is shown in Appendix B.



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On February 7, 2017, COG personnel were onsite to evaluate and sample the release area. Using a backhoe, two (2) trenches (T-1 and T-2) were installed to a total depths of 5.0' below surface. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The trench locations are shown on Figure 3.

Referring to Table 1, the areas of trenches (T-1 and T-2) showed chloride highs of 160 mg/kg and 48.0 mg/kg at 1.0' below surface, respectively, before declining with depth to 16.0 mg/kg (T-1) and <16.0 mg/kg (T-2) at 2.0' below surface. Total TPH and benzene concentrations were below the RRAL's in all collected samples. However, total BTEX concentrations exceeding the RRAL's were detected in the shallow soils with concentrations of 105 mg/kg (T-1) and 122 mg/kg (T-2) at 1.0' below surface. The total BTEX concentrations declined with depth to below the laboratory detection limits at 2.0' below surface at both trench locations.

Work Plan

Based on the laboratory results, COG proposes to remove the impacted material as highlighted (green) in Table 1 and shown on Figure 4. The areas of trenches (T-1 and T-2) will be excavated to a depth of approximately 1.0' below surface to remove the elevated BTEX concentrations in the shallow soils. Once excavated to the appropriate depth, the excavated area will be backfilled with clean material to surface grade. All of the excavated material will be transported offsite for proper disposal.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns for onsite personnel. As such, COG will excavate the impacted soils to the maximum extent practicable.



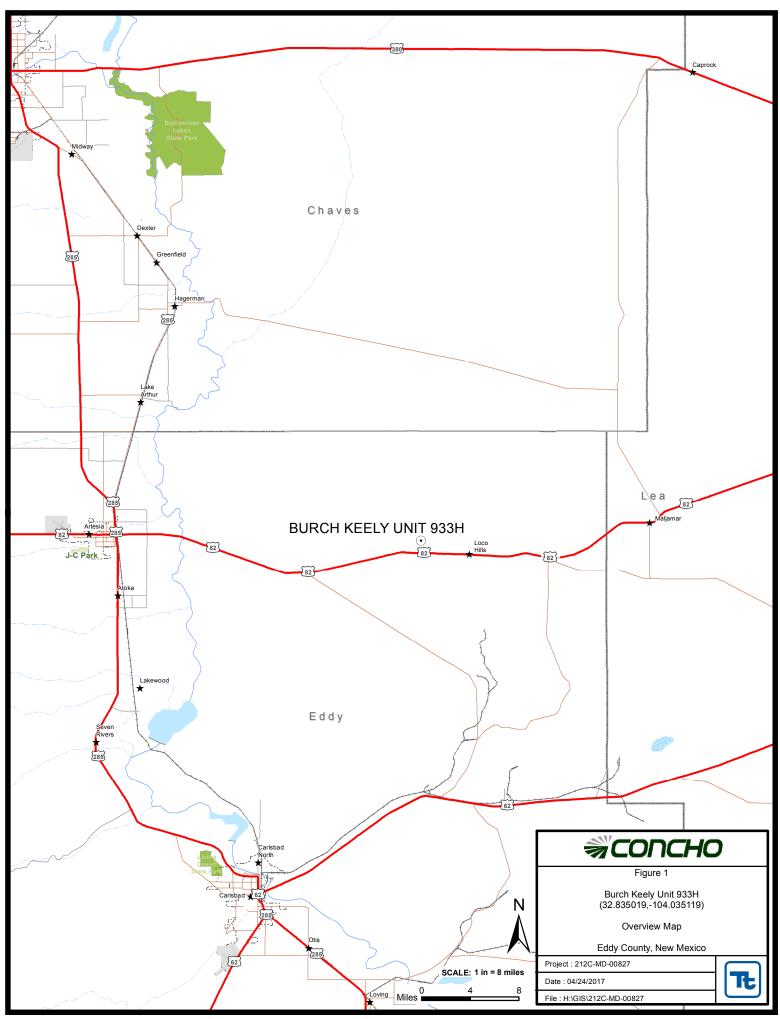
Upon completion, a final report detailing the remediation activities will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

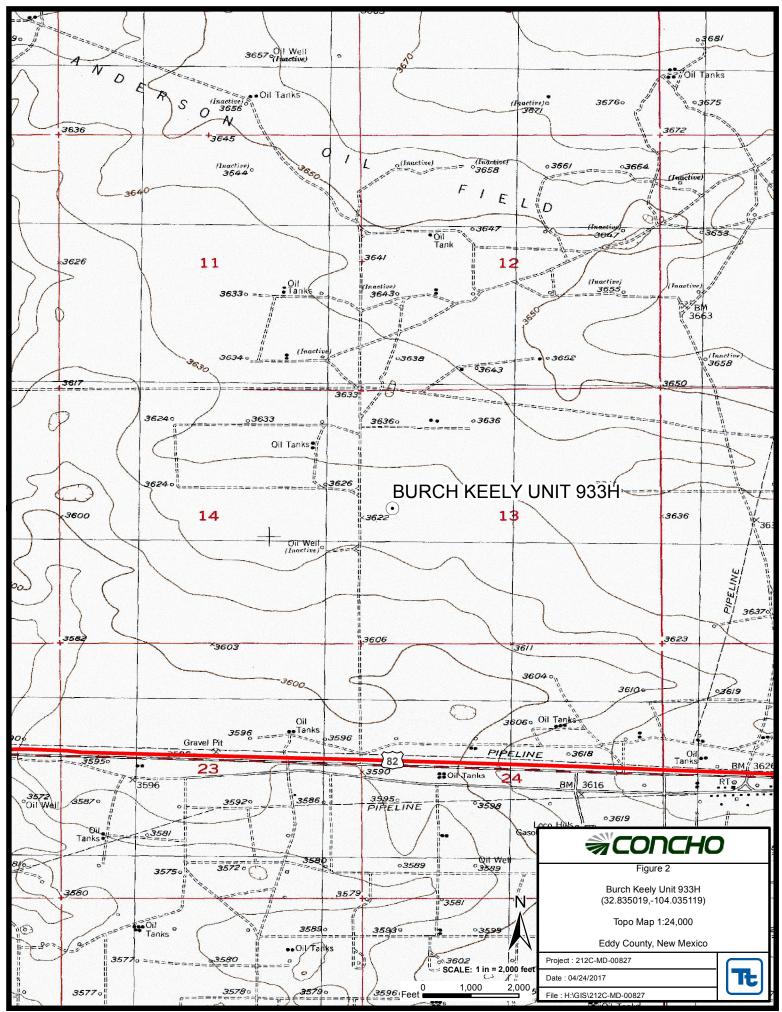
Respectfully submitted, TETRA TECH

Clair Gonzales, Geologist I Ike Tavarez, Senior Project Manager, P.G.

cc: Robert McNeill – COG Dakota Neel – COG Rebecca Haskell - COG Shelly Tucker – BLM

Figures









Tables

Table 1
COG Operating LLC.
Burch Keely Unit # 933H
Eddy County, New Mexico

O-marks ID	OI- D-1-	Sample	Soil	Status	7	PH (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
T-1	2/7/2017	1	Χ		730	2,130	2,860	0.924	23.5	30.0	50.4	105	160
	II .	2	Χ		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	3	Χ		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	4	Χ		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	5	Χ		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
T-2	2/7/2017	1	Х		802	2,420	3,222	0.638	27.9	35.3	57.9	122	48.0
	"	2	Х		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	3	Χ		<10.0	38.2	38.2	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	4	Χ		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	5	Х		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0

(-) Not Analyzed

Proposed Excavation Depths



<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.

Form C-141

Revised August 8, 2011

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

Attached

Release Notification	on and Corrective Action	on								
	OPERATOR									
Name of Company: COG Operating LLC	Contact: F	Robert McNeill								
Address: 600 West Illinois Avenue, Midland TX 79701		32-683-7443								
Facility Name: Burch-Keely Unit #933H	Facility Type: Flowline									
Surface Owner: Federal Mineral Owner	•	API No. 30-015-40970								
LOCATION OF RELEASE										
Unit Letter Section Township Range Feet from the Nor	th/South Line Feet from the Eas North 330	t/West Line County West Eddy								
	93 Longitude -104.0357742	,								
	E OF RELEASE									
Type of Release:	Volume of Release:	Volume Recovered:								
Oil and Produced Water	2 bbls Oil & 3 bbls PW	1 bbls Oil & 0 bbls PW								
Source of Release:	Date and Hour of Occurrence:	Date and Hour of Discovery:								
Flowline Was Immediate Notice Given?	January 16, 2017 9:20 am If YES, To Whom?	January 16, 2017 9:20 am								
☐ Yes ☐ No ☐ Not Require										
By Whom?	Date and Hour:									
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the W	atercourse.								
If a Watercourse was Impacted, Describe Fully.*										
Describe Cause of Problem and Remedial Action Taken.*										
Five pinholes were discovered in the polyline. Replaced section of the f	lowline.									
Describe Area Affected and Cleanup Action Taken.*										
The release was within a pasture. A vacuum truck was dispatched to rer										
any possible impact from the release and we will present a remediation activities.	work plan to the NMOCD for approve	al prior to any significant remediation								
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										
or the environment. In addition, NMOCD acceptance of a C-141 report										
federal, state, or local laws and/or regulations.										
Signature: Release Haskell	OIL CONSER	<u>EVATION DIVISION</u>								
	1									
Printed Name: Rebecca Haskell	Approved by Environmental Specia	list:								
Title: Senior HSE Coordinator	Approval Date:	Expiration Date:								

Conditions of Approval:

rhaskell@concho.com

Phone:

432-683-7443

E-mail Address:

Date: January 17, 2017

^{*} Attach Additional Sheets If Necessary

Appendix B

Water Well Data Average Depth to Groundwater (ft) COG - Burch Keely Unit #933H Eddy County, New Mexico

	<u> 16 S</u>	outh	28	8 East			16 Sc	outh	29	9 East			16 S	outh	3	30 East
;	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2
	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11
8	17	16	15	14	13	18	17	16	15	14 220	13	18	17	16	15	14
										dry						
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23
20	00	61	07	00	0.5	110	00	00	07	00	0.5	20	00	00	07	00
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35
	17 9	outh	25	B East			17 Sc	outh	20	9 East			17 Sc	outh		30 East
6	5	4	3	2 28		6	17 00	4	3	2	1	6	17 0	4	3	2
•	ľ	Ι΄	Ŭ			Ŭ	Ŭ	ľ	Ŭ		ľ	Ŭ	Ŭ	ľ	Ů	ľ
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14
				80							SITE					
19	20	21	22 45	23	24	19	20	21	22 76	23	24	19	20 80	21	22	23
224			79						80							
30	29	28	27	26	25	30	29 210 208	28	27	26	25	30	29	28	27	26
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35
				258						153						
	18 S	outh	28	8 East			18 Sc	outh	29	9 East			18 S	outh	3	30 East
6	5	4	3	2 55	1	6	5	4	3	2	1	6	5	4	3	2
		108														
7	8 81	9	10	11	12	7	8	9	10 95	5 11	12	7	8	9	10	11
49	69															
18	17	16	15 80	14	13	18	17	16	15	14	13	18	17	16	15	14
	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23 44
19			1								158					
19		226														
19 30 137	29	226 28	27	26	25	30	29	28	27	26	25	30	29	28	27	26

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- 143 NMOCD Groundwater map well location



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

(A CLW#### in the POD suffix indicates the POD has been replaced

(R=POD has been replaced, O=orphaned,

closed)

& no longer serves a water right file.)

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD

Sub-QQQ

Code basin County 64 16 4 Sec Tws Rng

Depth Depth Water

Well Water Column

POD Number RA 11807 POD1

1 2 3 22 17S 29E

3631585

587360

76 feet

55

Average Depth to Water:

Minimum Depth: 76 feet

76 feet Maximum Depth:

Record Count: 1

PLSS Search:

Township: 17S Range: 29E

Appendix C



February 22, 2017

AARON LIEB

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: BURCH KEELEY UNIT #933

Enclosed are the results of analyses for samples received by the laboratory on 02/15/17 13:30.

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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: BURCH KEELEY UNIT #933 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: T 1 - 1 ' (H700394-01)

BTEX 8021B	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.924	0.500	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	23.5	0.500	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	30.0	0.500	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	50.4	1.50	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	105	3.00	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/20/2017	ND	432	108	400	3.64	
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	730	50.0	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	2130	50.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	136 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	131 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: BURCH KEELEY UNIT #933 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: T 1 - 2 ' (H700394-02)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	<0.050	0.050	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	< 0.050	0.050	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	< 0.150	0.150	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	<0.300	0.300	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7 9	% 73.6-14	0						
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	02/20/2017	ND	432	108	400	3.64	
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	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	88.9 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	99.0 9	% 28-171							

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COG OPERATING AARON LIEB P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: **BURCH KEELEY UNIT #933** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: T 1 - 3 ' (H700394-03)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	<0.050	0.050	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	<0.300	0.300	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/20/2017	ND	432	108	400	3.64	
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	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	78.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	95.2	% 28-171							

Surrogate: 1-Chlorooctadecane 95.2 % 28-171

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COG OPERATING AARON LIEB P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: **BURCH KEELEY UNIT #933** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: T 1 - 4 ' (H700394-04)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	<0.050	0.050	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	<0.300	0.300	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/20/2017	ND	432	108	400	3.64	
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	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	78.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	89.0	% 28-171							

Surrogate: 1-Chlorooctadecane 89.0 % 28-171

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COG OPERATING AARON LIEB P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: **BURCH KEELEY UNIT #933** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: T 1 - 5 ' (H700394-05)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	<0.050	0.050	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	<0.300	0.300	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.6-14	0						
Chloride, SM4500CI-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	02/20/2017	ND	432	108	400	3.64	
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	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	82.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	98.6	% 28-171							

Surrogate: 1-Chlorooctadecane 98.6 % 28-171

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Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: **BURCH KEELEY UNIT #933** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: T 2 - 1 ' (H700394-06)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.638	0.500	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	27.9	0.500	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	35.3	0.500	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	57.9	1.50	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	122	3.00	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 73.6-14	0						
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	02/20/2017	ND	432	108	400	3.64	
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	802	50.0	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	2420	50.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	131	% 35-147	7						
Surrogate: 1-Chlorooctadecane	127	% 28-171							

127 % Surrogate: 1-Chlorooctadecane 28-171

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Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: **BURCH KEELEY UNIT #933** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: T 2 - 2 ' (H700394-07)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	<0.050	0.050	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	<0.300	0.300	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.6-14	0						
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	02/20/2017	ND	432	108	400	3.64	
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	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	83.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	89.7	% 28-171							

Surrogate: 1-Chlorooctadecane 89.7 % 28-171

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AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: BURCH KEELEY UNIT #933 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: T 2 - 3' (H700394-08)

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	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	<0.050	0.050	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	<0.300	0.300	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.6-14	0						
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	02/20/2017	ND	432	108	400	3.64	
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	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	38.2	10.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	79.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	91.8	% 28-171							

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Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: **BURCH KEELEY UNIT #933** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: T 2 - 4 ' (H700394-09)

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	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	<0.050	0.050	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	<0.300	0.300	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.6-14	0						
Chloride, SM4500CI-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	02/20/2017	ND	432	108	400	3.64	
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	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	81.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	93.7	% 28-171							

Surrogate: 1-Chlorooctadecane 93.7 % 28-171

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AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 02/15/2017 Sampling Date: 02/07/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: BURCH KEELEY UNIT #933 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: T 2- 5 ' (H700394-10)

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	02/18/2017	ND	2.18	109	2.00	2.72	
Toluene*	<0.050	0.050	02/18/2017	ND	2.05	103	2.00	2.65	
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	2.07	103	2.00	3.06	
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.90	98.4	6.00	2.94	
Total BTEX	<0.300	0.300	02/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
Chloride, SM4500CI-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	02/20/2017	ND	432	108	400	3.64	
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	02/17/2017	ND	187	93.5	200	0.699	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	195	97.6	200	1.31	
Surrogate: 1-Chlorooctane	84.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	96.8	% 28-171							

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

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Company Name:	COG Operating LLC	C									Ĩ	DILL 10						1	7	\dashv	_		\dashv		\dashv		
Project Manager:	Aaron Lieb							P.O. #:	#											_					_		
Address: 2407	2407 Pecos Avenue							Cor	Company:	Ŋ:	0	COG Operating LLC	ng LLC														
Tte		State: NM		Zip	882	88210		Attn:			_	Robert McNeill	eili										_		_		
Phone #:	575-748-1553	Fax #:						Ado	Address:	S		600 W Illinois	nois												_		
Project #:		Project Owner:						City:				Midland								_					_		_
ame:	Burch Keeley Unit #933							Sta	State: TX	\forall	N	Zip: 79701															
9								Ph	Phone #:	#	432	(432) 221-0388					2										
O-malar Nama	Aaron Lieb							Fax #:	#																_		_
Sampler Name: FOR LAB USE ONLY	Aaloii Lieb		コ		3	MATRIX	~		PRESERV.	SEF	?	SAMPLING	G														
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Lab I.D.	Sample I.D.	ī.Đ.	(G)RAB OR	# CONTAIN	GROUNDW WASTEWA	SOIL	SLUDGE	OTHER:	ACID/BASE	ICE / COO	OTHER:	DATE	TIME	BTEX	ТРН	Chloride			+-	1							+-
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PLEASE NOTE: Liability an analyses. All claims including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount public properties of the applicable please. 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 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 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 please.	d client's exclusive remedy for her cause whatsoever shall	r any cla be deem	im aris ed wai	sing whether I wed unless mitation, busine	based in hade in	writing writing	and red	of use	by Car by Car	rdinal of p	within 30 days aft rofits incurred by	er completion of the client, its subsidia	he applic	able												
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Relinquished By:	```	Date:	~70	есе	Received By:								rgrubbs@concho.com rhaskell@concho.com	(Q) CO	ncho.	com											
Delivered By	Delivered By: (Circle One)			,		Sample Condition	Con	t ditio	_	오	E C	KED BY:															
Sampler - UPS -	- Bus - Other:	のでは	25.5	3		Yes Yes	7	No		2	V																