



February 24, 2015

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210

Re: Cooper 29 Federal #1H
30-015-36220
Sec. 32, T25S-R29E
Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated November 5, 2014.

Background

The release was due to a split in the poly line resulting in the release of 30 barrels of produced water of which 25 barrels were recovered. The release impacted the surrounding pasture, lease road, and crossed two pipeline right of ways running parallel to the lease road. The release path ranged from approximately 10' in width at the initial point of release to 1.5' in width as it ran across the right of ways and the lease road. It followed an existing run off channel down the hill for approximately 300'. The attached Site Diagram depicts the approximate area impacted by the release along with approximate sample points.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero with depth to groundwater at greater than 100'.

Soil Assessment and Analytical Results

Sample points noted on the attached Site Diagram are labeled with an S to denote samples taken with a coring unit. Sample points were chosen based on ease of access for the coring unit and proximity outside the existing pipeline right of ways.

Sample results for TPH and BTEX were tested at the 1' depth for all sample points and proved to be non-detect based on the attached Analytical Results. Chloride results proved to be elevated to a depth of 1' for all sample points with the exception of S2

which was a pooling area and had elevated levels at a depth of 2'. Analytical Results and a Site Diagram with a Sample Summary Table have been attached for your consideration.

Work Plan

COG Operating LLC proposes the following excavation based on delineation samples taken within the impacted area. The area labeled as S1 would be excavated to a depth of 1.5'. S2 would be excavated to a depth of 2.5'. The areas labeled as S3, S4, and S5 are located within an existing shallow run off channel. Although sample results are elevated at a depth of 1', excavation of the area is not recommended due to future run off events. The runoff channel is comprised of rock and gravel with little to no vegetation (NRCS Soil Survey attached). Excavation of this channel could potentially hinder the existing stability of the soil/rock structure and cause future erosion problems. Additionally, an area of a least 25' beyond the impacted area will be needed to allow entry and exiting of machinery. This level of damage could potentially have greater environmental impact than the existing chlorides.

I welcome the opportunity for a site visit if further discussion or explanation is needed. If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,



Lupe Carrasco
Environmental Coordinator

Enclosure(s): Site Diagram
NRCS Soil Survey
Analytical Results
C-141 Initial (Copy)

Cooper 29 Federal #1H

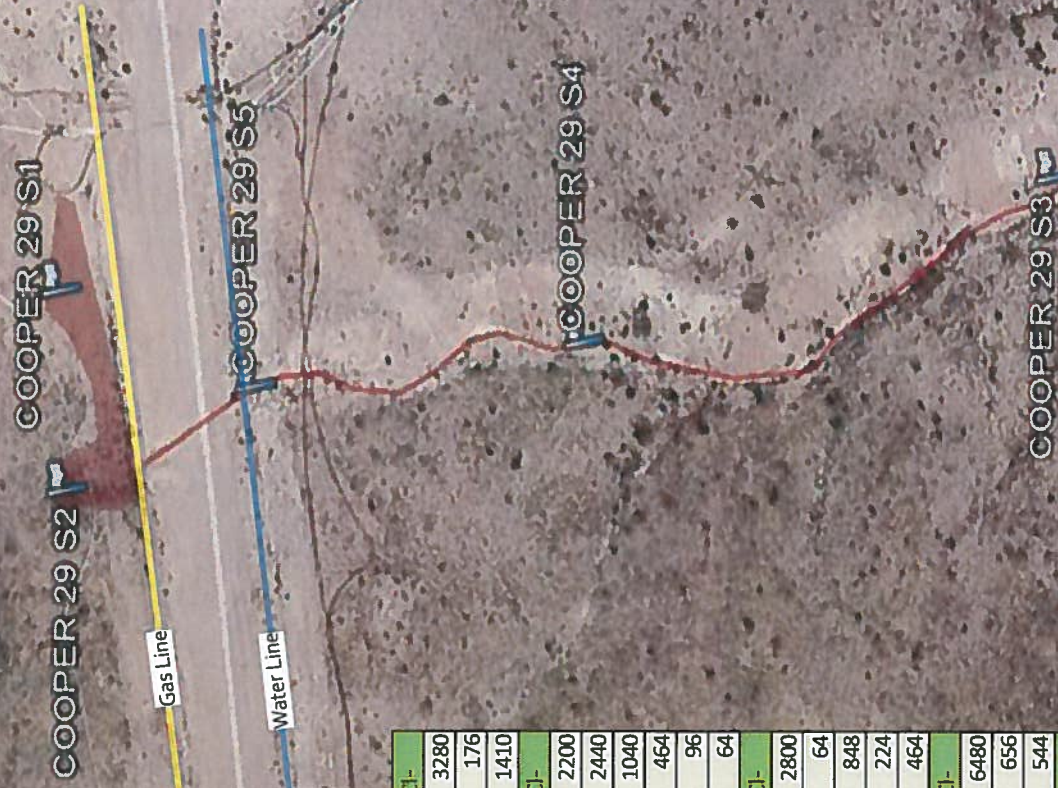
August 8, 2014

Section 32, T25S-R29E

Released: 30 B/PW
Recovered: 25 B/PW

Legend

- Cooper 29 Sample Point
- Release area
- Release path



S1	GRO	DRO	TPH	BTEX	CI-
1'	ND	ND	ND	ND	3280
2'	NA	NA	NA	NA	176
3'	NA	NA	NA	NA	1410
S2	GRO	DRO	TPH	BTEX	CI-
1'	ND	ND	ND	ND	2200
2'	ND	ND	ND	ND	2440
3'	NA	NA	NA	NA	1040
4'	NA	NA	NA	NA	464
6'	NA	NA	NA	NA	96
8'	NA	NA	NA	NA	64
S3	GRO	DRO	TPH	BTEX	CI-
1'	ND	ND	ND	ND	2800
2'	NA	NA	NA	NA	64
3'	NA	NA	NA	NA	848
4'	NA	NA	NA	NA	224
6'	NA	NA	NA	NA	464
S4	GRO	DRO	TPH	BTEX	CI-
1'	ND	ND	ND	ND	6480
2'	NA	NA	NA	NA	656
3'	NA	NA	NA	NA	544
S5	GRO	DRO	TPH	BTEX	CI-
1'	ND	ND	ND	ND	4160
2'	NA	NA	NA	NA	272
3'	NA	NA	NA	NA	640



Eddy Area, New Mexico

UG—Upton gravelly loam, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w64

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 200 to 217 days

Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton

Setting

Landform: Ridges, fans

Landform position (three-dimensional): Side slope, rise

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam

H2 - 9 to 13 inches: gravelly loam

H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 75 percent

Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Shallow (R042XC025NM)

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 11, Sep 26, 2014



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

November 26, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: COOPER 29 FEDERAL #1H

Enclosed are the results of analyses for samples received by the laboratory on 11/20/14 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accredited 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,

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 11/20/2014
Reported: 11/26/2014
Project Name: COOPER 29 FEDERAL #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Mike Snyder

Sample ID: S1-1' (H403574-01)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	11/21/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2014	ND	218	109	200	1.70	
DRO >C10-C28	<10.0	10.0	11/22/2014	ND	216	108	200	0.276	

Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 52.1-176

Sample ID: S1-2' (H403574-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/21/2014	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 11/20/2014
Reported: 11/26/2014
Project Name: COOPER 29 FEDERAL #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Mike Snyder

Sample ID: S1-3' (H403574-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	11/21/2014	ND	416	104	400	3.77	

Sample ID: S2-1' (H403574-04)

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	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 61-154

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/21/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2014	ND	218	109	200	1.70	
DRO >C10-C28	<10.0	10.0	11/22/2014	ND	216	108	200	0.276	

Surrogate: 1-Chlorooctane 116 % 47.2-157

Surrogate: 1-Chlorooctadecane 120 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 11/20/2014
Reported: 11/26/2014
Project Name: COOPER 29 FEDERAL #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Mike Snyder

Sample ID: S2-3' (H403574-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	11/21/2014	ND	416	104	400	3.77	

Sample ID: S2-4' (H403574-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/21/2014	ND	416	104	400	3.77	

Sample ID: S2-6' (H403574-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2014	ND	416	104	400	3.77	

Sample ID: S2-8' (H403574-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2014	ND	416	104	400	3.77	

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Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 11/20/2014
Reported: 11/26/2014
Project Name: COOPER 29 FEDERAL #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/13/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Mike Snyder

Sample ID: S2-2' (H403574-09)

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	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	11/21/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2014	ND	218	109	200	1.70	
DRO >C10-C28	<10.0	10.0	11/22/2014	ND	216	108	200	0.276	

Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 123 % 52.1-176

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

November 26, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: COOPER 29 FEDERAL #1H

Enclosed are the results of analyses for samples received by the laboratory on 11/20/14 14:10.

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Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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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,

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 11/20/2014
Reported: 11/26/2014
Project Name: COOPER 29 FEDERAL #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Mike Snyder

Sample ID: S3-1' (H403575-01)

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	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	11/21/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2014	ND	218	109	200	1.70	
DRO >C10-C28	<10.0	10.0	11/22/2014	ND	216	108	200	0.276	

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

Sample ID: S3-2' (H403575-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2014	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 11/20/2014
Reported: 11/26/2014
Project Name: COOPER 29 FEDERAL #1H
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Mike Snyder**Sample ID: S3-3' (H403575-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	11/21/2014	ND	416	104	400	3.77	

Sample ID: S3-4' (H403575-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/24/2014	ND	400	100	400	0.00	

Sample ID: S3-6' (H403575-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/24/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 11/20/2014
Reported: 11/26/2014
Project Name: COOPER 29 FEDERAL #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Mike Snyder

Sample ID: S4-1' (H403575-06)

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	11/25/2014	ND	1.75	87.7	2.00	5.86	
Toluene*	<0.050	0.050	11/25/2014	ND	1.64	81.9	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.56	78.0	2.00	5.73	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	4.70	78.3	6.00	5.86	
Total BTEX	<0.300	0.300	11/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	11/24/2014	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2014	ND	218	109	200	1.70	
DRO >C10-C28	<10.0	10.0	11/22/2014	ND	216	108	200	0.276	

Surrogate: 1-Chlorooctane 121 % 47.2-157

Surrogate: 1-Chlorooctadecane 125 % 52.1-176

Sample ID: S4-2' (H403575-07)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	11/24/2014	ND	400	100	400	0.00	

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

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Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Mike Snyder

Sample ID: S4-3' (H403575-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/24/2014	ND	400	100	400	0.00	

Sample ID: S5-1' (H403575-09)

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	11/24/2014	ND	1.91	95.3	2.00	1.74	
Toluene*	<0.050	0.050	11/24/2014	ND	1.84	92.2	2.00	1.54	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.83	91.3	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.54	92.3	6.00	1.43	
Total BTEx	<0.300	0.300	11/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	11/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2014	ND	184	91.9	200	4.85	
DRO >C10-C28	<10.0	10.0	11/24/2014	ND	181	90.5	200	8.98	

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 128 % 52.1-176

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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Project Name: COOPER 29 FEDERAL #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Mike Snyder

Sample ID: S5-2' (H403575-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/24/2014	ND	400	100	400	0.00	

Sample ID: S5-3' (H403575-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/24/2014	ND	400	100	400	0.00	

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Hope S. Moreno

Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Hope S. Moreno

Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476
COG Operating LLC

[illegible]

Retained By:		Received By:		Date:
				10/1/04
Phone Result:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Phone #:

Relinquished By: <i>[Signature]</i>		Time: <i>11/20/14</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Date: <i>11/20</i>		Received By: <i>[Signature]</i>		REMARKS: <i>gcarrasco@concho.com</i>	
Time:				<i>atrujillo@concho.com</i>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:			
Sampler <i>4.20</i>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<i>[Signature]</i>			
Other:					

District I
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.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: Cooper 29 Federal #1H	Facility Type: Battery

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-36932
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LOCATION OF RELEASE

Unit Letter L	Section 29	Township 25S	Range 29E	Feet from the 2230	North/South Line South	Feet from the 560	East/West Line West	County Eddy
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Latitude 32.0997469065957 Longitude -104.013226365386

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20 bbls	Volume Recovered: 18 bbls
Source of Release: Flowline	Date and Hour of Occurrence: 10-17-2014 1:51 am	Date and Hour of Discovery: 10-17-2014 1:51 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher – OCD / Jeffery Robertson – BLM	
By Whom? Amanda Trujillo	Date and Hour: 10/27/2014 10:34 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a flowline leak. A issue in the SWD system caused the line to pressure up. Vacuum trucks were dispatched to pick up standing fluid. Repairs were made to the line.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was approximately 300' x 1.5' in size in the pasture. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature:



Printed Name: Amanda Trujillo

Approved by Environmental Specialist:

Title: Senior Environmental Coordinator

Approval Date:

Expiration Date:

E-mail Address: atrujillo@concho.com

Conditions of Approval:

Attached ☐

Date: November 5, 2014

Phone: 575-748-6940

* Attach Additional Sheets If Necessary