



**Robert Grubbs**  
Senior Environmental Coordinator

March 23, 2016

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

**Re: Myox 32 Fee #2H**  
**30-015-41521**  
**Sec. 32, T25S-R28E**  
**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 February 22, 2016.

### **Background**

The release was caused by an open valve that sent oil to flare resulting in a fire and the release of 5 barrels of oil of which zero barrels were recovered. The released fluid and fire were centralized to the bermed area around the flare, while a small amount of fluid misted the pasture. Micro Blaze® was applied to the pasture and the area around the flare was scraped and berms were removed and rebuilt with fresh soil.

### **Groundwater**

Based on the New Mexico Office of the State Engineer Website, the release area would be classified at a site ranking of **Ten** with depth to groundwater at approximately 90' (C 01278, Section 28, T25S-R28E).

### **Soil Assessment and Analytical Results**

Sample points noted on the attached Site Diagram are labeled with an S to denote samples taken within the release area.

Sample results for TPH and BTEX were taken at the surface and at a 1' depth for both sample points. A summary of the sample results are included on the attached site diagram. Analytical Results have been attached for your consideration.

**Work Plan**

COG Operating LLC proposes that S1 (within berm area) be excavated to a depth of approximately 6" with no excavation required for S2.

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 (432) 683-7443.

Sincerely,



Robert Grubbs  
Senior Environmental Coordinator

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



# Myox 32 Fee #2H

Sec. 32, T25S-R28E

Released: 5 B/O  
Recovered: 0 B/O

Legend

● MYOX 32 FEE2H

S1	BTEX	GRO	DRO	TPH
Surface	413	5060	9060	ND
1'	0.649	15.5	144	ND
S2	BTEX	GRO	DRO	TPH
Surface	ND	ND	ND	ND
1'	ND	ND	ND	ND

MYOX 32 FEE2H



March 15, 2016

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MYOX 32 FEE #002

Enclosed are the results of analyses for samples received by the laboratory on 03/09/16 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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](http://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,



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: 03/09/2016  
 Reported: 03/15/2016  
 Project Name: MYOX 32 FEE #002  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 03/08/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1 - SURFACE (H600516-01)**

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.09	5.00	03/14/2016	ND	2.03	101	2.00	2.02	
Toluene*	135	5.00	03/14/2016	ND	1.98	99.0	2.00	2.28	
Ethylbenzene*	34.6	5.00	03/14/2016	ND	1.82	91.0	2.00	1.48	
Total Xylenes*	236	15.0	03/14/2016	ND	5.59	93.2	6.00	2.13	
Total BTEX	413	30.0	03/14/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 103 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5060	50.0	03/14/2016	ND	198	98.8	200	3.25		
DRO >C10-C28	9060	50.0	03/14/2016	ND	204	102	200	0.937		

Surrogate 1-Chlorooctane 184 % 35-147

Surrogate 1-Chlorooctadecane 188 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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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: 03/09/2016  
Reported: 03/15/2016  
Project Name: MYOX 32 FEE #002  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/08/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1 - 1' (H600516-02)**

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	03/14/2016	ND	2.03	101	2.00	2.02	
Toluene*	0.304	0.050	03/14/2016	ND	1.98	99.0	2.00	2.28	
Ethylbenzene*	0.056	0.050	03/14/2016	ND	1.82	91.0	2.00	1.48	
Total Xylenes*	0.289	0.150	03/14/2016	ND	5.59	93.2	6.00	2.13	
Total BTEX	0.649	0.300	03/14/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 102 % 73 6-140

TPH 8015M		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.5	10.0	03/12/2016	ND	198	98.8	200	3.25	
DRO >C10-C28	144	10.0	03/12/2016	ND	204	102	200	0.937	

Surrogate 1-Chlorooctane 99.4 % 35-147

Surrogate 1-Chlorooctadecane 107 % 28-171

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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: 03/09/2016  
 Reported: 03/15/2016  
 Project Name: MYOX 32 FEE #002  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 03/08/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S2 - SURFACE (H600516-03)**

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	03/14/2016	ND	2.03	101	2.00	2.02	
Toluene*	<0.050	0.050	03/14/2016	ND	1.98	99.0	2.00	2.28	
Ethylbenzene*	<0.050	0.050	03/14/2016	ND	1.82	91.0	2.00	1.48	
Total Xylenes*	<0.150	0.150	03/14/2016	ND	5.59	93.2	6.00	2.13	
Total BTEX	<0.300	0.300	03/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 98.4 % 73.6-140

TPH 8015M		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/12/2016	ND	198	98.8	200	3.25	
DRO >C10-C28	<10.0	10.0	03/12/2016	ND	204	102	200	0.937	

Surrogate: 1-Chlorooctane 92.5 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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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: 03/09/2016  
 Reported: 03/15/2016  
 Project Name: MYOX 32 FEE #002  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 03/08/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S2 - 2' (H600516-04)**

BTX 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	03/14/2016	ND	2.03	101	2.00	2.02	
Toluene*	<0.050	0.050	03/14/2016	ND	1.98	99.0	2.00	2.28	
Ethylbenzene*	<0.050	0.050	03/14/2016	ND	1.82	91.0	2.00	1.48	
Total Xylenes*	<0.150	0.150	03/14/2016	ND	5.59	93.2	6.00	2.13	
Total BTX	<0.300	0.300	03/14/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 99.1 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/12/2016	ND	198	98.8	200	3.25	
DRO >C10-C28	<10.0	10.0	03/12/2016	ND	204	102	200	0.937	

Surrogate 1-Chlorooctane 93.3 % 35-147

Surrogate 1-Chlorooctadecane 112 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2478**

(575) 393-2328 FAX (575) 393-2478

[illegible]

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: MYOX 32 FEE #002H	Facility Type: Battery

Surface Owner: Fee	Mineral Owner:	API No. 30-015-41521
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LOCATION OF RELEASE

Unit Letter C	Section 32	Township 25S	Range 28E	Feet from the 190'	North/South Line North	Feet from the 1980'	East/West Line West	County Eddy
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Latitude 32.0927238 Longitude -104.1114349

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 5 bbls	Volume Recovered: 0 bbls
Source of Release: Flare	Date and Hour of Occurrence: 2/22/2016 6:30 am	Date and Hour of Discovery: 2/22/2016 6:30 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 - NMOCD	
By Whom? Robert Grubbs Jr.	Date and Hour: Wednesday, February 24, 2016 7:01 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.\*

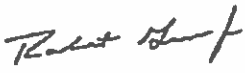
The release was caused by an open valve that sent oil to the flare which resulted in a fire at the flare. Fluid misted the nearby pasture. Microblaze was applied to the pasture.

Describe Area Affected and Cleanup Action Taken.\*

The impacted area was centralized to the flare area and nearby 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: 	Approved by Environmental Specialist:	
Printed Name: Robert Grubbs		
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: March 7, 2016	Phone: 432-683-7443	

\* Attach Additional Sheets If Necessary.

