

August 15, 2014

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

Re: Foster Eddy #014 30-015-37136 Sec. 17, T17S-R31E Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit the enclosed documents for closure of the Foster Eddy #014 release reported on the C-141 Initial submitted January 2, 2014.

The release was due to a stuffing box failure on the wellhead causing a release of 12 B/O and 3 B/PW of which 11 B/O and 2 B/PW were recovered. All fluids remained on the location. The impacted area was scraped and all impacted soil was hauled to a NMOCD approved facility for disposal.

The release area was sampled at depths of 1' and 3' for S1 and S2. S2 was sampled further to a depth of 6' for chloride delineation. Sample results for TPH and BTEX levels are non-detect for the release area. An attached site diagram depicts the release area along with approximate sample points and a table summarizing the analytical results.

A signed C-141 Final is enclosed for your consideration. Please feel free to contact me with any further questions or concerns at (575) 748-6933.

Sincerely,

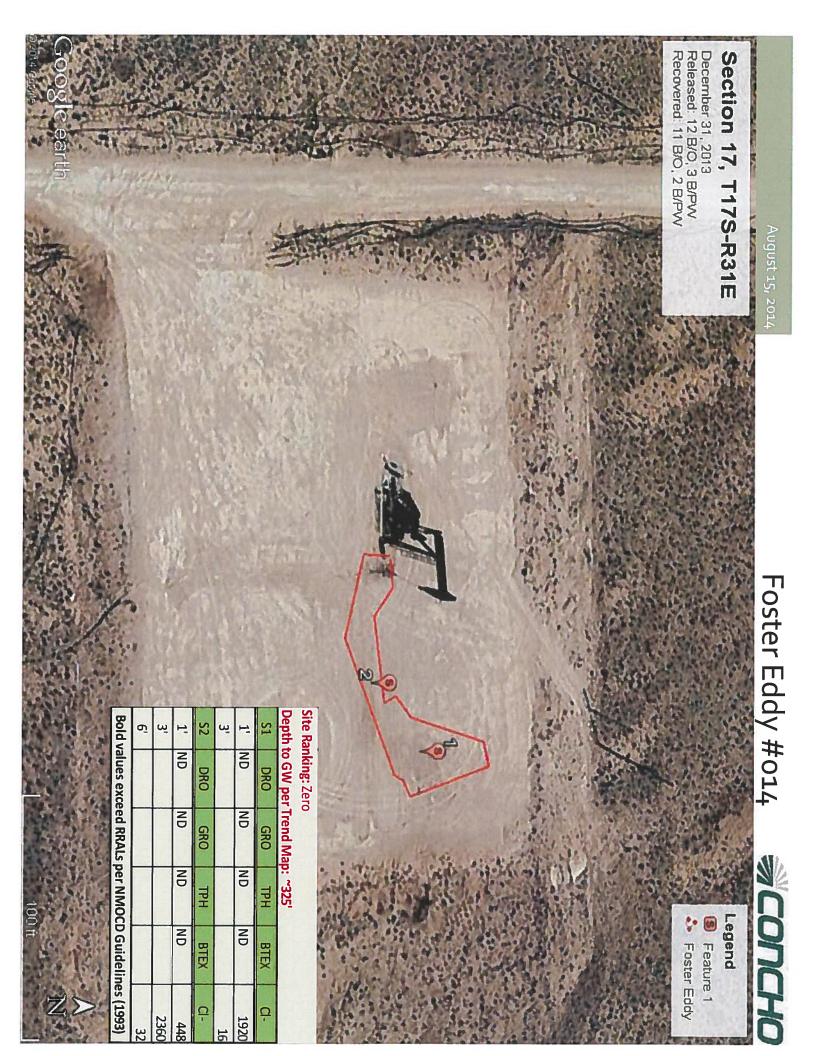
Lupe Carrasco

**Environmental Coordinator** 

Enclosed: Site Diagram

Analytical Results C-141 Initial (Copy)

C-141 Final





August 01, 2014

**LUPE CARRASCO** 

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: FOSTER EDDY #14

Enclosed are the results of analyses for samples received by the laboratory on 07/25/14 15:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited 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.

Lope S. Moreno

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:

07/25/2014

07/23/2014

Reported: Project Name: 08/01/2014 FOSTER EDDY #14

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

07/25/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

y: Jodi Henson

## Sample ID: S1 1' (H402293-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/29/2014	ND	1.96	98.1	2.00	7.18	
Toluene*	<0.050	0.050	07/29/2014	ND	2.00	100	2.00	6.57	
Ethylbenzene*	<0.050	0.050	07/29/2014	ND	2.02	101	2.00	6.74	
Total Xylenes*	<0.150	0.150	07/29/2014	ND	6.09	102	6.00	6.61	
Total BTEX	<0.300	0.300	07/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/31/2014	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	07/28/2014	ND	171	85.6	200	0.932	
DRO >C10-C28	<10.0	10.0	07/28/2014	ND	178	89.0	200	3.57	
Surrogate: 1-Chlorooctane	133 9	65.2-14	0						in the second
Surrogate: 1-Chlorooctadecane	144 9	63.6-15	4						

## Sample ID: S1 3' (H402293-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/31/2014	ND	416	104	400	3.77	

## Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Abpe S. Moreno



## Analytical Results For:

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

Received:

07/25/2014

Sampling Date:

07/25/2014

Reported:

08/01/2014

Sampling Type:

Soil

Project Name:

FOSTER EDDY #14

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2 1' (H402293-03)

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	07/29/2014	ND	1.96	98.1	2.00	7.18	
Toluene*	<0.050	0.050	07/29/2014	ND	2.00	100	2.00	6.57	
Ethylbenzene*	<0.050	0.050	07/29/2014	ND	2.02	101	2.00	6.74	
Total Xylenes*	<0.150	0.150	07/29/2014	ND	6.09	102	6.00	6.61	
Total BTEX	<0.300	0.300	07/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	123 9	6 89.4-126	5					1000	
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP				. <u>-</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/31/2014	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	07/28/2014	ND	171	85.6	200	0.932	
DRO >C10-C28	-10.0	10.0	07/28/2014	ND	178	89.0	200	3.57	
	<10.0	10.0							
Surrogate: 1-Chlorooctane	1169			7	<u> </u>	Hit			

## Sample ID: S2 3' (H402293-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/31/2014	ND	416	104	400	3.77	

## Cardinal Laboratories

\*=Accredited Analyte

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Abpe S. Moreno



### **Notes and Definitions**

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

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

imits.

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 SM4500CI-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

Cardinal Laboratories

\*=Accredited Analyte

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Abpe S. Moreno

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

D				
rioject manager: Lupe Carrasco			AN	ANALYSIS REQUEST
Address: 2208 West Main	7. C. #			- 1
City: Artesia Stat		any: COG Operating LLC		
Phone #: (575) 748-6940 Fax #:	1200	Robert McNeil		
	t Owner-	ss: 600 W Illinois		
Project Name: Foster Eddy #14	City:	Midland		
Project Location:	State: TX	TX Zip: 79701		
Sampler Name: Lupe Carrasco	Phone	Phone #: (432) 221-0388		
7	Fax #:			
	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL BLUDGE DTHER: CID/BASE: CE / COOL	THER :	H	
2 51-2		7/25/14	< Ti	
<b>3</b> S2-1			< >	
4 S2-3		7/25/14 X	×	
		7/25/14	×	
PEASE NOTE. Labelly and Demograe. Curdinal's tabelly and client's exclusive remark for any claim aiming whether based in contract or tart, shall be limited to the amount paid by the client for the service in no event shall curdinal be labeled for notificated or consequented demograes, including without mission, business made in writing and received by Cardinal within 30 days size completion of the applicable affiliation or successors arranged of or related to the performance of services herewards they cardinally without missions, business interruptions, tost of use, or loss of profits incurred by client, its substitutes.  Relinquished By:	nedy for any claim usung whether based in contract or tart, shed be in vitable to destruct watered unless made in writing and received by Carc invisiting without brailism, business interruptions, loss of use or loss retails by Carcinata, inguistics of vitables by Carcinata, inguistics of vitables of vitables and vit	made to the errount past by the class for the drast within 30 days efter completion of the applicable of profile providing district, its substitutions.		
Relinquished By: Cate: Time:	Regioned By: Jamson	- T	☐ Yes ☐ No Add'i Phone #: ☐ Yes ☐ No Add'i Fax #: ☐Call'asco@concho.com	V #:
Delivered By: (Circle One)	Sample Conduit			

Sampler - UPS - Bus - Other:

Sample Condition Cool Intact

4. Sc Ares Dives

No No No



August 12, 2014

**LUPE CARRASCO** 

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

**RE: FOSTER EDDY #14** 

Enclosed are the results of analyses for samples received by the laboratory on 08/06/14 14:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keene

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:

08/06/2014

Sampling Date:

07/25/2014

Reported:

08/12/2014

Sampling Type:

FOSTER EDDY #14

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Kathy Perez

Project Location:

**NOT GIVEN** 

Sample ID: S2-6' (H402424-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/11/2014	ND	400	100	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keine



## **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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



## (575) 393-2326 FAX (575) 393-2476

District | 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

\* Attach Additional Sheets If Necessary

## 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 October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

## Release Notification and Corrective Action

						OPERA'	TOR		⊠ Initi	al Report		Final Report	
Name of Co	ompany	COG OP	ERATIN	G LLC		Contact	R	obert M					
Address				idland, TX 797	01	Telephone l		32-230-					
Facility Na	me	Foste	r Eddy#	014		Facility Typ	oe	Well	Pad				
Surface Ow	mer Fede	ral		Mineral C	Owner				Lease 1	No. (API#) 3	0-01	5-37136	
				LOCA	ATIO	N OF RE	LEASE						
Unit Letter F	Section 17	Township 17S	Range 31E	Feet from the	North/	South Line	Feet from the	East/W	est Line	County	ddy		
				Latitude 32.8	3705	Longi	tude 103.89302					ii s	
				NAT	URE	OF REL			AMERICAN				
		produced wa	ter				bbls of Produced	water				Ilbbis of oil oduced water	
Source of Re	lease Wellt	ead				Date and F	lour of Occurrence 3			Hour of Disc 13 08:30am			
Was Immediate Notice Given?  ☐ Yes ☑ No ☑ Not Required If YES, To Whom?													
By Whom?					Date and I	lour							
Was a Watercourse Reached?  ☐ Yes ☑ No						If YES, Volume Impacting the Watercourse.							
If a Watercou	If a Watercourse was Impacted, Describe Fully.*												
Describe Cause of Problem and Remedial Action Taken.*													
Stuffing box	Stuffing box leak. Repacked stuffing box and tightened connections.												
Describe Are	a Affected a	ınd Cleanup A	ction Tak	en.*			·-		·				
water with a	Initially 12bbls of oil and 3bbls of water were released from the stuffing box on the wellhead. We were able to recover 11bbls of oil and 2bbls of produced water with a vacuum truck. All free fluids have been recovered. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD/BLM for approval prior to any significant remediation work.									of produced on from the			
regulations al public health should their o or the environ	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.									danger liability nan health			
							OIL CONS	SERVA	TION	DIVISIO	N		
Signature:		+ Be	_/_			Annoved by	District Supervise	Mr.					
Printed Name		Rober	t Grubbs J	г			Pionier Dupel vist	<b></b>					
Title:	S	enior Environ	mental Co	pordinator		Approval Dat	<b>e:</b>	E	epiration l	Date:			
E-mail Addre	ss:	rgrubbs@	concho.co	om	(	Conditions of	Approval:			Attached			
Date: 01-0	2 -2014		Phone:	432-661-6601									

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210
District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

\* Attach Additional Sheets If Necessary

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

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

Submit 2 Copies to appropriate District Office in accordance

with Rule 116 on back side of form

Form C-141

Revised October 10, 2003

## **Release Notification and Corrective Action**

						<b>OPERAT</b>		☐ Initia	al Report	$\boxtimes$	Final Report		
Name of Co	mpany	COG OP	ERATIN	G LLC		Contact	R	obert M		•			
Address	600 We	st Illinois A	venue, M	idland, TX 7970	)1 ′	Telephone N	lo.	132-230	-0077				
Facility Nar	ne	Foste	r Eddy #	014	1	Facility Type	e	Well	Pad				
Surface Ow	ner Feder	ral		Mineral O	wner				Lease N	lo. (API#)	30-01:	5-37136	
				LOCA	TION	ION OF RELEASE							
				2001		, or itel							
Unit Letter F	Section 17	Township 17S	Range 31E	Feet from the	North/	South Line	Feet from the	East/W	Vest Line	County	Eddy		
				Latitude 32.83	3705	Longit	ude 103.89302	?					
				NAT	URE	OF RELEASE							
Type of Rele	ase Oil and	produced wa	ter				Release 12bbls bbls of Produced	- 1	Volume F	Recovered 2bb		11bbls of oil oduced water	
Source of Re	lease Wellh	nead			Date and H 12-31-2013	our of Occurrenc	ee		Hour of Dis 13 08:30a				
Was Immedia	ate Notice (		Yes ⊠	No 🛛 Not Re	quired								
By Whom?				******	Date and H	our							
Was a Water	course Read	hed?	Yes 🛭	No		If YES, Vo	lume Impacting	the Wate	rcourse.				
If a Watercourse was Impacted, Describe Fully.*													
Describe Cause of Problem and Remedial Action Taken.*													
Stuffing box leak. Repacked stuffing box and tightened connections.													
Describe Are	a Affected a	and Cleanup A	Action Tak	en.*									
Initially 12bbls of oil and 3bbls of water were released from the stuffing box on the wellhead. We were able to recover 11bbls of oil and 2bbls of produced water with a vacuum truck. All free fluids have been recovered. COG Operating, LLC sampled the spill site area to delineate any possible contamination from the release and is submitting this document to NMOCD/BLM for closure of the release.													
regulations al public health should their o	l operators or the envir perations h nment. In a	are required to the same failed to a dition, NMC	elease no rt by the emediate	to the best of my knowledge and understand that pursuant to NMOCD rules and e notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability iate contamination that pose a threat to ground water, surface water, human health t does not relieve the operator of responsibility for compliance with any other									
		1					OIL CON	SERV.	ATION	DIVISIO	<u>N</u>		
Signature:	1	(											
Printed Name	:	Lupe	Carrasco		1	Approved by l	District Supervis	or:					
Title:		Environmenta		itor		Approval Date	3.	E	Expiration	Date:			
E-mail Addre	ss:	gcarrasco	@concho	.com		Conditions of	Approval:			Attached			
Date: 8/18	/2014		Phone:	575-748-2010							_		