

July 18, 2016

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

**Re: Foster Eddy #11
30-015-26231
Sec. 17, T17S-R31E
Eddy County, NM**

Mr. Bratcher/Mr. Arias,

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 12, 2016 in which 3 bbls oil and 2 bbls produced water was released into the pasture. 2 bbls of oil and 1 bbl of produced water were recovered.

Background

The release was caused by a break in a poly flowline. A vacuum truck was dispatched to recover standing fluid. This release occurred in the pasture approximately 275' northwest of the wellhead and impacting 488 square feet.

Groundwater & Soil Assessment

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero due to the depth of groundwater at approximately 325'. NRCS Soil Survey Maps indicate soil texture is a fine sand with a restrictive barrier at more than 80 inches.

Analytical Results

Initial soil samples were taken on 3-16-2016. Samples indicated TPH and BTEX exceeded RRALs for site ranking zero at S1 and S2 sampling points. Chloride concentration were also elevated for surface reclamation, therefore further delineation will be conducted.

CORPORATE ADDRESS

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701
P 432.683.7443 | F 432.683.7441

CARLSBAD OFFICE

1401 Commerce Drive | Carlsbad, New Mexico 88220
P 575.689.3100 | F 575.941.2081

Site Ranking: Zero
Depth to GW per SEO: 325'

S1	DRO	GRO	TPH	BTEX	Cl-
1'	13800	2500	16300	194	2120
2'	15900	3160	19060	285	496
3'	355	44.2	399.2	5.44	528
4'	<10.0	<10.0	<10.0	<0.300	48
5'	10	<10.0	10	<0.300	336
S2	DRO	GRO	TPH	BTEX	Cl-
1'	11200	3240	14440	273	7860
2'	11000	4050	15050	411	4400
3'	11900	4150	16050	294	3760
4'	2760	8330	11090	241	3840
5'	8290	2660	10950	194	3840
S3	DRO	GRO	TPH	BTEX	Cl-
1'	632	67.2	699.2	5.01	4400
2'	<10.0	< 10.0	< 10.0	<0.300	1680
3'	< 10.0	< 10.0	< 10.0	<0.300	144
4'	< 10.0	< 10.0	< 10.0	<0.300	64
5'	107	< 10.0	107	<0.300	144

Work Plan

COG proposes the excavation of 2 feet of material from areas labeled S1 and S3 (see diagram). S2 will be excavated to a depth exceeding 5' (based on saturation of impacted soil) and further delineation will be completed at that time. The impacted area is situated between three pipelines which will make excavation difficult and an extreme safety hazard. All attempts will be made to fully delineate and excavate saturated material within the area labeled as S2. All work will be done within the permissible limits of the pipeline representatives and the safety of the contractors involved. The area in question is situated on top of several dunes and will make the use of a Hydro Vac impossible without the construction of a road and further destruction of the dunal complex and surrounding plant fauna. Delineation samples will be submitted to NMOCD and BLM. The area will be backfilled with like material and seeded with a BLM approved seed mixture.

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 (505) 350-1336.

Sincerely,



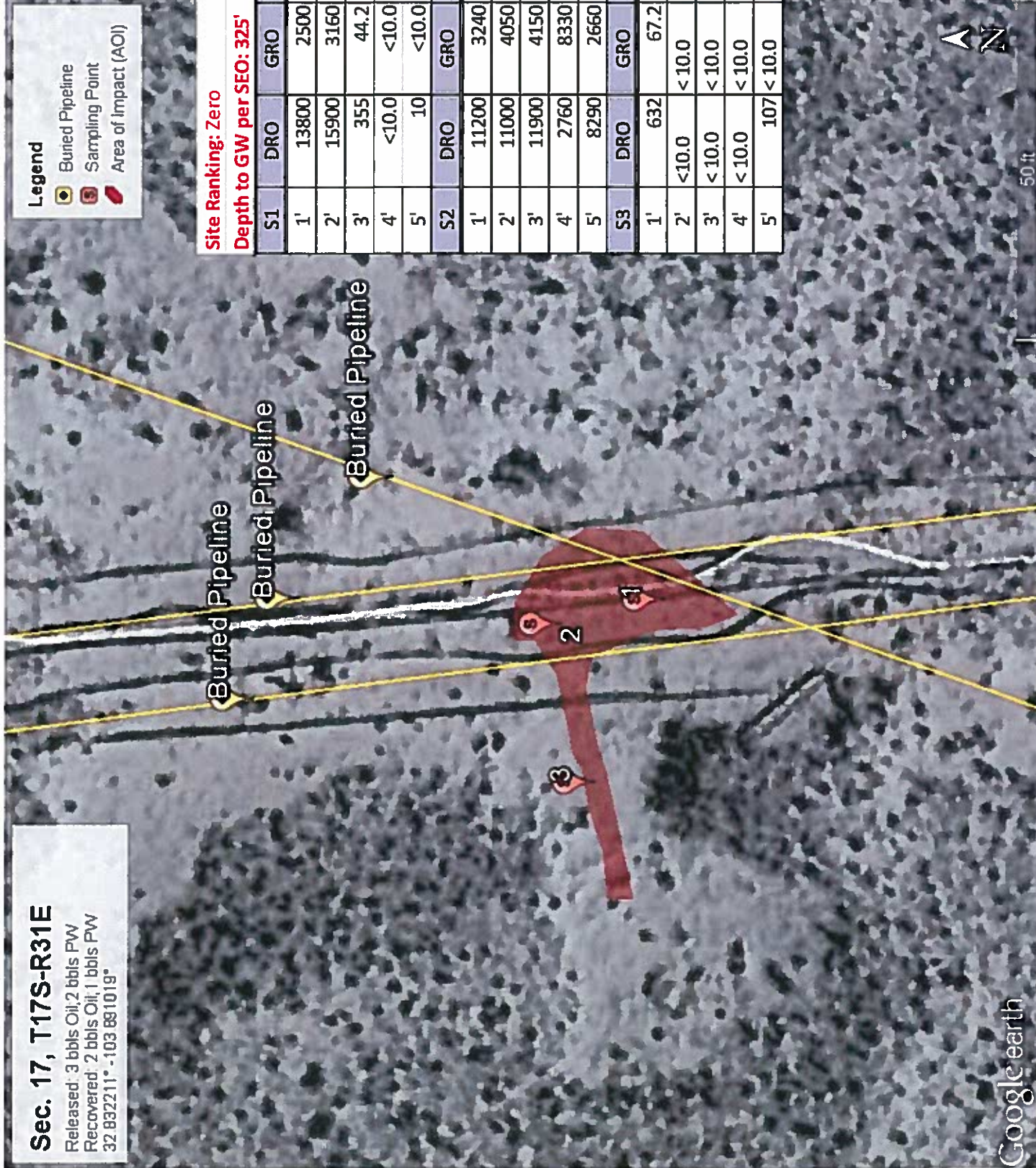
Amanda Trujillo Davis
 Sr. Environmental Coordinator

Enclosed

- (1) Site Diagram and Summary Table
- (2) Laboratory Analysis

Sec. 17, T17S-R31E

Released: 3 bbis Oil, 2 bbis PW
 Recovered: 2 bbis Oil, 1 bbis PW
 32.832211° -103.891019°



Legend

- Buried Pipeline
- Sampling Point
- Area of Impact (AOI)

Site Ranking: Zero
Depth to GW per SEO: 325'

S1	DRO	GRO	TPH	BTEX	CI-
1'	13800	2500	16300	194	2120
2'	15900	3160	19060	285	496
3'	355	44.2	399.2	5.44	528
4'	<10.0	<10.0	<10.0	<0.300	48
5'	10	<10.0	10	<0.300	336
S2	DRO	GRO	TPH	BTEX	CI-
1'	11200	3240	14440	273	7860
2'	11000	4050	15050	411	4400
3'	11900	4150	16050	294	3760
4'	2760	8330	11090	241	3840
5'	8290	2660	10950	194	3840
S3	DRO	GRO	TPH	BTEX	CI-
1'	632	67.2	699.2	5.01	4400
2'	<10.0	<10.0	<10.0	<0.300	1680
3'	<10.0	<10.0	<10.0	<0.300	144
4'	<10.0	<10.0	<10.0	<0.300	64
5'	107	<10.0	107	<0.300	144

March 31, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: FOSTER EDDY #11 (TB) (YESO)

Enclosed are the results of analyses for samples received by the laboratory on 03/23/16 10:30.

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.

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
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/23/2016	Sampling Date:	03/16/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	FOSTER EDDY #11 (TB) (YESO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1 - 1' (H600630-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	2.72	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	43.8	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	51.5	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	96.0	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	194	12.0	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73 6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	2500	200	03/24/2016	ND	196	97.9	200	3.19			
DRO >C10-C28	13800	200	03/24/2016	ND	200	99.8	200	7.50			

Surrogate: 1-Chlorooctane 674 % 35-147

Surrogate: 1-Chlorooctadecane 1150 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/23/2016
 Reported: 03/31/2016
 Project Name: FOSTER EDDY #11 (TB) (YESO)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - 2' (H600630-02)

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	4.67	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	69.9	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	74.8	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	136	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	285	12.0	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	3160	200	03/24/2016	ND	196	97.9	200	3.19			
DRO >C10-C28	15900	200	03/24/2016	ND	200	99.8	200	7.50			

Surrogate: 1-Chlorooctane 305 % 35-147

Surrogate: 1-Chlorooctadecane 382 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/23/2016	Sampling Date:	03/16/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	FOSTER EDDY #11 (TB) (YESO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1 - 3' (H600630-03)

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	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	0.339	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	1.56	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	3.53	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	5.44	0.300	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 115 % 73 6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	44.2	10.0	03/24/2016	ND	196	97.9	200	3.19	QM-07	
DRO >C10-C28	355	10.0	03/24/2016	ND	200	99.8	200	7.50	QM-07	

Surrogate: 1-Chlorooctane 89.6 % 35-147

Surrogate: 1-Chlorooctadecane 90.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/23/2016	Sampling Date:	03/16/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	FOSTER EDDY #11 (TB) (YESO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1 - 4' (H600630-04)

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	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	<0.300	0.300	03/28/2016	ND						

Surrogate 4-Bromofluorobenzene (PIC) 99.2% 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/24/2016	ND	400	100	400	3.92		

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	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate 1-Chlorooctane 88.4% 35-147

Surrogate 1-Chlorooctadecane 102% 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/23/2016	Sampling Date:	03/16/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	FOSTER EDDY #11 (TB) (YESO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1 - 5' (H600630-05)

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	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	<0.300	0.300	03/28/2016	ND						

Surrogate 4-Bromofluorobenzene (PIC) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/24/2016	ND	400	100	400	3.92		

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	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	10.0	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate 1-Chlorooctane 83.8 % 35-147

Surrogate 1-Chlorooctadecane 96.1 % 28-171

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/23/2016
 Reported: 03/31/2016
 Project Name: FOSTER EDDY #11 (TB) (YESO)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 - 1' (H600630-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	3.69	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	72.0	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	67.2	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	130	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	273	12.0	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107% 73 6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7860	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	3240	100	03/25/2016	ND	196	97.9	200	3.19			
DRO >C10-C28	11200	100	03/25/2016	ND	200	99.8	200	7.50			

Surrogate: 1-Chlorooctane 184% 35-147

Surrogate: 1-Chlorooctadecane 265% 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/23/2016	Sampling Date:	03/16/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	FOSTER EDDY #11 (TB) (YESO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S2 - 2' (H600630-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	5.79	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	116	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	106	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	182	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	411	12.0	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	4050	100	03/25/2016	ND	196	97.9	200	3.19			
DRO >C10-C28	11000	100	03/25/2016	ND	200	99.8	200	7.50			

Surrogate: 1-Chlorooctane 175 % 35-147

Surrogate: 1-Chlorooctadecane 262 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/23/2016
 Reported: 03/31/2016
 Project Name: FOSTER EDDY #11 (TB) (YESO)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 - 3' (H600630-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	3.21	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	78.0	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	77.1	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	136	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	294	12.0	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107% 73 6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	4150	100	03/25/2016	ND	196	97.9	200	3.19			
DRO >C10-C28	11900	100	03/25/2016	ND	200	99.8	200	7.50			

Surrogate: 1-Chlorooctane 184% 35-147

Surrogate: 1-Chlorooctadecane 289% 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/23/2016	Sampling Date:	03/16/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	FOSTER EDDY #11 (TB) (YESO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S2 - 4' (H600630-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	58.3	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	65.5	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	117	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	241	12.0	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 73 6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	2760	100	03/25/2016	ND	196	97.9	200	3.19			
DRO >C10-C28	8330	100	03/25/2016	ND	200	99.8	200	7.50			

Surrogate: 1-Chlorooctane 161 % 35-147

Surrogate: 1-Chlorooctadecane 190 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/23/2016	Sampling Date:	03/16/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	FOSTER EDDY #11 (TB) (YESO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S2 - 5' (H600630-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	03/28/2016	ND	1.99	99.4	2.00	0.600		
Toluene*	45.5	2.00	03/28/2016	ND	1.90	95.0	2.00	0.817		
Ethylbenzene*	52.3	2.00	03/28/2016	ND	1.68	84.1	2.00	1.60		
Total Xylenes*	96.7	6.00	03/28/2016	ND	5.26	87.7	6.00	0.288		
Total BTEX	194	12.0	03/28/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 73 6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	2660	100	03/25/2016	ND	196	97.9	200	3.19			
DRO >C10-C28	8290	100	03/25/2016	ND	200	99.8	200	7.50			

Surrogate: 1-Chlorooctane 168 % 35-147

Surrogate: 1-Chlorooctadecane 206 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/23/2016	Sampling Date:	03/16/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	FOSTER EDDY #11 (TB) (YESO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S3 - 1' (H600630-11)

BTEX 80218		mg/kg		Analyzed By: MS				QM-07		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25		
Toluene*	0.431	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05		
Ethylbenzene*	1.31	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63		
Total Xylenes*	3.28	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62		
Total BTEX	5.01	0.300	03/29/2016	ND						

Surrogate 4-Bromofluorobenzene (PIC) 120 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	03/24/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	67.2	10.0	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	632	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate 1-Chlorooctane 100 % 35-147

Surrogate 1-Chlorooctadecane 97.4 % 28-171

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Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/23/2016
 Reported: 03/31/2016
 Project Name: FOSTER EDDY #11 (TB) (YESO)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 - 2' (H600630-12)

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	03/29/2016	ND	2.07	104	2.00	5.25		
Toluene*	0.065	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05		
Ethylbenzene*	0.051	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63		
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62		
Total BTEX	<0.300	0.300	03/29/2016	ND						

Surrogate 4-Bromofluorobenzene (PIC) 100 % 73 6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	03/24/2016	ND	400	100	400	3.92		

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	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate 1-Chlorooctane 87.5 % 35-147

Surrogate 1-Chlorooctadecane 87.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/23/2016
 Reported: 03/31/2016
 Project Name: FOSTER EDDY #11 (TB) (YESO)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 - 3' (H600630-13)

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	03/29/2016	ND	2.07	104	2.00	5.25		
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05		
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63		
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62		
Total BTEX	<0.300	0.300	03/29/2016	ND						

Surrogate 4-Bromofluorobenzene (PIC) 101 % 73 6-140

Chloride, SM4500C1-8		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2016	ND	400	100	400	3.92		

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	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate 1-Chlorooctane 79.6 % 35-147

Surrogate 1-Chlorooctadecane 90.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/23/2016	Sampling Date:	03/16/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	FOSTER EDDY #11 (TB) (YESO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S3 - 4' (H600630-14)

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	03/29/2016	ND	2.07	104	2.00	5.25		
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05		
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63		
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62		
Total BTEX	<0.300	0.300	03/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73 6-140

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	03/24/2016	ND	400	100	400	3.92		

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	03/25/2016	ND	196	97.9	200	3.19		
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50		

Surrogate: 1-Chlorooctane 85.5 % 35-147

Surrogate: 1-Chlorooctadecane 93.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/23/2016
 Reported: 03/31/2016
 Project Name: FOSTER EDDY #11 (TB) (YESO)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 - 5' (H600630-15)
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	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	<0.300	0.300	03/29/2016	ND					

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/24/2016	ND	400	100	400	3.92	

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	03/25/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	107	10.0	03/25/2016	ND	200	99.8	200	7.50	

Surrogate 1-Chlorooctane 83.2 % 35-147

Surrogate 1-Chlorooctadecane 94.5 % 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.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO		ANALYSIS REQUEST																					
P.O. #:		Company:		COG Operating LLC		Address:		City:		State:		TX		Zip:		79701		Phone #:		(432) 221-0388		Fax #:	
Project Manager:		Dakota Neel		City:		Artesia		State:		NM		Zip:		88210		Phone #:		(575) 748-6930		Fax #:		Project Owner:	
Project Name:		Foster Eddy #11 (TB) (Yeso)		City:		Midland		State:		TX		Zip:		79701		Phone #:		(432) 221-0388		Fax #:			
Project Location:		Dakota Neel		City:		Midland		State:		TX		Zip:		79701		Phone #:		(432) 221-0388		Fax #:			
Sampler Name:		Dakota Neel		City:		Midland		State:		TX		Zip:		79701		Phone #:		(432) 221-0388		Fax #:			
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP		CONTAINERS		GROUNDWATER		SLUDGE		ICE / COOL		OTHER		DATE		TIME		PRESERV.		SAMPLING	
H000230	1	S1-1'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	
	2	S1-2'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	
	3	S1-3'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	
	4	S1-4'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	
	5	S1-5'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	
	6	S2-1'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	
	7	S2-2'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	
	8	S2-3'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	
	9	S2-4'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	
	10	S2-5'	X	X	X	X	X	X	X	X	X	X	X	X	X	3/16/16	11:00 AM	X	X	X	X	X	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated sections or otherwise.

Relinquished By: **DAKOTA NEEL** Date: 3/23/2016 Time: 10:30
 Received By: *[Signature]* Date: Time:
 Relinquished By: *[Signature]* Date: Time:
 Received By: *[Signature]* Date: Time:
 Delivered By: (Circle One) **4.20**
 Sample: **1000230** R Bus - Other: **#154**
 Sample Condition: Cool Intact Yes No
 Checked By: *[Signature]*
 Received By: *[Signature]* Date: Time:
 Received By: *[Signature]* Date: Time:
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: dneel2@concho.com
 icarrasco@concho.com
 atrujillo@concho.com

† Cardinal cannot accept verbal charges. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2012

Company Name: COG Operating LLC		Company: COG Operating LLC	
Project Manager: Dakota Neel		Attn: Robert McNeil	
Address: 2208 West Main		Address: 600 W Illinois	
City: Artesia	State: NM	City: Midland	State: TX
Phone #: (575) 748-6930	Fax #:	State: TX	Zip: 79701
Project #:	Project Owner:	Phone #: (432) 221-0388	Fax #:
Project Name: Foster Eddy #11 (TB) (Yeso)		Project Location:	
Sampler Name: Dakota Neel		Sample I.D.:	

Lab I.D.	PRESERV	MATRIX	DATE	TIME	BTX	PH	Fluoride	ANALYSIS REQUEST	
								OTHER: ICE / COOL	OTHER: ACID/BASE
11		WASTEWATER	3/16/16	11:00 AM	X	X	X		
12		GROUNDWATER	3/16/16	11:00 AM	X	X	X		
13		WASTEWATER	3/16/16	11:00 AM	X	X	X		
14		GROUNDWATER	3/16/16	11:00 AM	X	X	X		
15		WASTEWATER	3/16/16	11:00 AM	X	X	X		

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Relinquished By: DAKOTA NEEL
Date: 3/23/2016
Time: 10:30
Received By: *Apdi Johnson*
Date: _____
Time: _____

Relinquished By: _____
Date: _____
Time: _____

Delivered By: (Circle One) _____
Sample ID: R 2815 - Other: _____

Sample Condition:
Cool Intact
Yes No

Checked By: _____
Initials: *AA*

REMARKS:
Phone Result: Yes No
Fax Result: Yes No
Add'l Phone #: _____
Add'l Fax #: _____

ICARRASCO@CONCHO.COM
atrujillo@concho.com

4.20c

#754

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476