

March 31, 2017

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

**Re: Electra Federal #58
30-015-38182
Sec. 10, T17S-R30E
Eddy County, NM**

Mr. Bratcher/Ms. Price,

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 October 28th, 2016 in which 5 bbls oil and 5 bbls of produced water were released onto the well pad surrounding the well. Approximately 4 bbls of oil and 4 bbls of produced water were recovered.

Background

This release occurred and remained on the well pad. The release was caused by a failed packing in the stuffing box. A vacuum truck was dispatched to recover all standing fluid.

Groundwater 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'.

Analytical Results

Initial soil samples were taken on October 27, 2016 and December 19, 2016. Sample results indicated RRALs exceedances of BTEX in soil sample S1-Surface and soil sample S4-Surface for this site ranking. Chloride concentrations were elevated at the surface in soil samples S1 and S2, and surface to three (3) feet in soils samples S3 and S4.

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

Electra Federal #58					
10/27/2016 for Surface to 2'----- 12/19/2016 for 3' to 12'					
Depth to Ground Water ~325'					
S1	Cl-	BTEX	GRO	DRO	TOTAL TPH
Surface	4240	62.5	564	4420	4984
1'	32	-	-	-	-
2'	96	4.9	88	2270	2358
3'	64	-	-	-	-
4'	32	-	-	-	-
6'	<16	-	-	-	-
S2	Cl-	BTEX	GRO	DRO	TOTAL TPH
Surface	3200	-	-	414	414
1'	112	-	-	-	-
2'	32	-	-	-	-
3'	<16	-	-	-	-
4'	16	-	-	-	-
5'	16	-	-	-	-
S3	Cl-	BTEX	GRO	DRO	TOTAL TPH
Surface	1480	-	-	-	-
1'	1170	-	-	-	-
2'	1360	-	-	-	-
3'	1410	-	-	-	-
4'	208	-	-	-	-
5'	32	-	-	-	-
6'	32	-	-	-	-
S4	Cl-	BTEX	GRO	DRO	TOTAL TPH
Surface	3520	64.3	831	6180	7011
1'	128	-	-	60.8	60.8
2'	928	-	-	26.6	26.6
3'	4560	-	-	-	-
4'	704	-	-	-	-
6'	592	-	-	-	-
8'	560	-	-	-	-
10'	672	-	-	-	-
12'	208	-	-	-	-

March 31, 2017

Work Plan

COG proposes the excavation of 1' of material from areas labeled S1 and S2 and 3' of material from areas labeled S3 and S4 (see diagram). The area will be backfilled with non-impacted like material.

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.



Sincerely,

Dakota Neel
Environmental Coordinator

Enclosed

- (1) Site Diagram and Summary Table
- (2) Laboratory Analysis
- (3) C-141 Initial (Copy)

Electra Federal #58

Electra Federal #58

32.854894° -103.983128°

Legend

- AOI
- Sample Points
- State Land Board



100 ft



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: ELECTRA FEDERAL #058	Facility Type: Well

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-38182
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LOCATION OF RELEASE

Unit Letter C	Section 10	Township 17S	Range 30E	Feet from the 580	North/South Line North	Feet from the 1650	East/West Line West	County Eddy
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32.8547325,-103.963089

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 5 bbls of Oil ; 5 bbls of PW	Volume Recovered: 4 bbls of Oil ; 4 bbls of PW
Source of Release: Stuffing Box Leak	Date and Hour of Occurrence: 10/21/2016 unknown	Date and Hour of Discovery: 10/21/2016 8:00 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ 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 a failed packing in the stuffing box. The packing was removed and a new packing installed. Vacuum trucks were immediately dispatched to recover all standing fluid from the well pad. The impacted area of the well pad was lightly scraped to remove the surface contamination and the impacted soil was hauled off.

Describe Area Affected and Cleanup Action Taken.*

This release occurred on the well pad location surrounding the well. There was no impact to 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: 	Approved by Environmental Specialist:		
Printed Name: Dakota Neel			
Title: Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: dneel2@concho.com	Conditions of Approval:		Attached ☐
Date: 10/28/2016 Phone: 575-748-6933			

* Attach Additional Sheets If Necessary



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

January 05, 2017

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: ELECTRA #58

Enclosed are the results of analyses for samples received by the laboratory on 12/29/16 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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,

A handwritten signature in black ink that reads "Celey D. Keene".

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: 12/29/2016
 Reported: 01/05/2017
 Project Name: ELECTRA #58
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Angela Cabrera

Sample ID: T1 - 3' (H602888-01)

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	12/30/2016	ND	1.82	91.1	2.00	2.19	
Toluene*	<0.050	0.050	12/30/2016	ND	1.85	92.3	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/30/2016	ND	1.90	95.0	2.00	2.67	
Total Xylenes*	<0.150	0.150	12/30/2016	ND	5.54	92.3	6.00	2.61	
Total BTEX	<0.300	0.300	12/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/31/2016	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	12/30/2016	ND	184	92.0	200	3.90	
DRO >C10-C28	<10.0	10.0	12/30/2016	ND	190	95.0	200	1.29	

Surrogate: 1-Chlorooctane 93.2 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

Sample ID: T1 - 4' (H602888-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/31/2016	ND	400	100	400	3.92	

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: 12/29/2016
Reported: 01/05/2017
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: T1 - 5' (H602888-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/31/2016	ND	400	100	400	3.92	

Sample ID: T1 - 6' (H602888-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2016	ND	400	100	400	3.92	

Sample ID: T1 - 7' (H602888-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/31/2016	ND	400	100	400	3.92	

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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: 12/29/2016
Reported: 01/05/2017
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: T2 - 3' (H602888-06)

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	12/30/2016	ND	1.82	91.1	2.00	2.19	
Toluene*	<0.050	0.050	12/30/2016	ND	1.85	92.3	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/30/2016	ND	1.90	95.0	2.00	2.67	
Total Xylenes*	<0.150	0.150	12/30/2016	ND	5.54	92.3	6.00	2.61	
Total BTEX	<0.300	0.300	12/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/31/2016	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	12/30/2016	ND	184	92.0	200	3.90	
DRO >C10-C28	<10.0	10.0	12/30/2016	ND	190	95.0	200	1.29	

Surrogate: 1-Chlorooctane 83.5 % 35-147

Surrogate: 1-Chlorooctadecane 98.7 % 28-171

Sample ID: T2 - 4' (H602888-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/31/2016	ND	400	100	400	3.92	

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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: 12/29/2016
 Reported: 01/05/2017
 Project Name: ELECTRA #58
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Angela Cabrera

Sample ID: T2 - 5' (H602888-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/31/2016	ND	400	100	400	3.92	

Sample ID: T3 - 3' (H602888-09)

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	12/30/2016	ND	1.82	91.1	2.00	2.19	
Toluene*	<0.050	0.050	12/30/2016	ND	1.85	92.3	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/30/2016	ND	1.90	95.0	2.00	2.67	
Total Xylenes*	<0.150	0.150	12/30/2016	ND	5.54	92.3	6.00	2.61	
Total BTEX	<0.300	0.300	12/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.9 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	12/31/2016	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	12/30/2016	ND	184	92.0	200	3.90	
DRO >C10-C28	<10.0	10.0	12/30/2016	ND	190	95.0	200	1.29	

Surrogate: 1-Chlorooctane 95.7 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 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: 12/29/2016
 Reported: 01/05/2017
 Project Name: ELECTRA #58
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Angela Cabrera

Sample ID: T3 - 4' (H602888-10)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/31/2016	ND	400	100	400	3.92	

Sample ID: T3 - 5' (H602888-11)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/31/2016	ND	400	100	400	3.92	

Sample ID: T3 - 6' (H602888-12)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/31/2016	ND	400	100	400	3.92	

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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: 12/29/2016
Reported: 01/05/2017
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: T4 - 3' (H602888-13)

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	12/30/2016	ND	1.82	91.1	2.00	2.19	
Toluene*	<0.050	0.050	12/30/2016	ND	1.85	92.3	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/30/2016	ND	1.90	95.0	2.00	2.67	
Total Xylenes*	<0.150	0.150	12/30/2016	ND	5.54	92.3	6.00	2.61	
Total BTEX	<0.300	0.300	12/30/2016	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	12/31/2016	ND	416	104	400	0.00	QM-07

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	12/30/2016	ND	184	92.0	200	3.90	
DRO >C10-C28	<10.0	10.0	12/30/2016	ND	190	95.0	200	1.29	

Surrogate: 1-Chlorooctane 93.1 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

Sample ID: T4 - 4' (H602888-14)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	12/31/2016	ND	416	104	400	0.00	

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: 12/29/2016
 Reported: 01/05/2017
 Project Name: ELECTRA #58
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Angela Cabrera

Sample ID: T4 - 6' (H602888-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/31/2016	ND	416	104	400	0.00	

Sample ID: T4 - 8' (H602888-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	12/31/2016	ND	416	104	400	0.00	

Sample ID: T4 - 10' (H602888-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/31/2016	ND	416	104	400	0.00	

Sample ID: T4 - 12' (H602888-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/31/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



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

Page 10 of 11[illegible]

3. Please fax written changes to 575-393-2476

COG Operating LLC

Please only run deeper horizons for BTEX AND TPH if Benzene exceeds 10ppm, BTEX exceeds 50ppm, and TPH exceeds 5000ppm.



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

November 08, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: ELECTRA #58

Enclosed are the results of analyses for samples received by the laboratory on 11/02/16 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is 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,

A handwritten signature in black ink that reads "Celey D. Keene".

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: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S1 - SURFACE (H602458-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/04/2016	ND	2.23	112	2.00	1.94	
Toluene*	6.95	0.200	11/04/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	20.6	0.200	11/04/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	34.9	0.600	11/04/2016	ND	6.37	106	6.00	2.78	
Total BTEX	62.5	1.20	11/04/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 148 % 73.6-140

Chloride, SM4500Cl-B			mg/kg				Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	4240	16.0	11/03/2016	ND	416	104	400	0.00			

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	564	50.0	11/03/2016	ND	200	100	200	0.268			
DRO >C10-C28	4420	50.0	11/03/2016	ND	217	108	200	5.65			

Surrogate: 1-Chlorooctane 167 % 35-147

Surrogate: 1-Chlorooctadecane 159 % 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: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S1 - 1' (H602458-02)

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	11/04/2016	ND	2.23	112	2.00	1.94	
Toluene*	<0.050	0.050	11/04/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	<0.050	0.050	11/04/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	<0.150	0.150	11/04/2016	ND	6.37	106	6.00	2.78	
Total BTEX	<0.300	0.300	11/04/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/03/2016	ND	416	104	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	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	<10.0	10.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 122 % 28-171

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Analytical Results For:

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

Received: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S1 - 2' (H602458-03)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2016	ND	2.23	112	2.00	1.94	
Toluene*	0.157	0.050	11/04/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	1.39	0.050	11/04/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	3.36	0.150	11/04/2016	ND	6.37	106	6.00	2.78	
Total BTEX	4.90	0.300	11/04/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 157 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/03/2016	ND	416	104	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	88.8	50.0	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	2270	50.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 126 % 35-147

Surrogate: 1-Chlorooctadecane 139 % 28-171

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Analytical Results For:

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

Received: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S2 - SURFACE (H602458-04)

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	11/04/2016	ND	2.23	112	2.00	1.94	
Toluene*	<0.050	0.050	11/04/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	<0.050	0.050	11/04/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	<0.150	0.150	11/04/2016	ND	6.37	106	6.00	2.78	
Total BTEX	<0.300	0.300	11/04/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	11/03/2016	ND	416	104	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	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	414	10.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

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Analytical Results For:

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ARTESIA NM, 88210
Fax To: NONE

Received: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S2 - 1' (H602458-05)

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	11/04/2016	ND	2.23	112	2.00	1.94	
Toluene*	<0.050	0.050	11/04/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	<0.050	0.050	11/04/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	<0.150	0.150	11/04/2016	ND	6.37	106	6.00	2.78	
Total BTEX	<0.300	0.300	11/04/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/03/2016	ND	416	104	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	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	<10.0	10.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

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Analytical Results For:

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

Received: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S2 - 2' (H602458-06)

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	11/04/2016	ND	2.23	112	2.00	1.94		
Toluene*	<0.050	0.050	11/04/2016	ND	2.26	113	2.00	1.94		
Ethylbenzene*	<0.050	0.050	11/04/2016	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	11/04/2016	ND	6.37	106	6.00	2.78		
Total BTEX	<0.300	0.300	11/04/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 73 6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/03/2016	ND	416	104	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	11/03/2016	ND	200	100	200	0.268		
DRO >C10-C28	<10.0	10.0	11/03/2016	ND	217	108	200	5.65		

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 123 % 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: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S3 - SURFACE (H602458-07)

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	11/04/2016	ND	2.23	112	2.00	1.94	
Toluene*	<0.050	0.050	11/04/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	<0.050	0.050	11/04/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	<0.150	0.150	11/04/2016	ND	6.37	106	6.00	2.78	
Total BTEX	<0.300	0.300	11/04/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1480	16.0	11/03/2016	ND	416	104	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	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	<10.0	10.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 81.9 % 35-147

Surrogate: 1-Chlorooctadecane 89.9 % 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: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S3 - 1' (H602458-08)

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	11/04/2016	ND	2.23	112	2.00	1.94	
Toluene*	<0.050	0.050	11/04/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	<0.050	0.050	11/04/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	<0.150	0.150	11/04/2016	ND	6.37	106	6.00	2.78	
Total BTEX	<0.300	0.300	11/04/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	11/03/2016	ND	416	104	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	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	<10.0	10.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 120 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S3 - 2' (H602458-09)
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	11/04/2016	ND	2.23	112	2.00	1.94	
Toluene*	<0.050	0.050	11/04/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	<0.050	0.050	11/04/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	<0.150	0.150	11/04/2016	ND	6.37	106	6.00	2.78	
Total BTEX	<0.300	0.300	11/04/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 73.6-140

Chloride, SM4500Cl-B
mg/kg
Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	11/03/2016	ND	416	104	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	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	<10.0	10.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 94.4 % 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: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S4 - SURFACE (H602458-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/04/2016	ND	2.23	112	2.00	1.94	
Toluene*	11.6	0.500	11/04/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	20.5	0.500	11/04/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	32.2	1.50	11/04/2016	ND	6.37	106	6.00	2.78	
Total BTEX	64.3	3.00	11/04/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 128 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	11/03/2016	ND	416	104	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	831	50.0	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	6180	50.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 196 % 35-147

Surrogate: 1-Chlorooctadecane 96.6 % 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: 11/02/2016
Reported: 11/08/2016
Project Name: ELECTRA #58
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S4 - 1' (H602458-11)

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	11/05/2016	ND	2.23	112	2.00	1.94	
Toluene*	<0.050	0.050	11/05/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	<0.050	0.050	11/05/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	<0.150	0.150	11/05/2016	ND	6.37	106	6.00	2.78	
Total BTEX	<0.300	0.300	11/05/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/03/2016	ND	416	104	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	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	60.8	10.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 125 % 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: 11/02/2016
 Reported: 11/08/2016
 Project Name: ELECTRA #58
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/27/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Angela Cabrera

Sample ID: S4 - 2' (H602458-12)

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	11/05/2016	ND	2.23	112	2.00	1.94	
Toluene*	<0.050	0.050	11/05/2016	ND	2.26	113	2.00	1.94	
Ethylbenzene*	<0.050	0.050	11/05/2016	ND	2.10	105	2.00	2.91	
Total Xylenes*	<0.150	0.150	11/05/2016	ND	6.37	106	6.00	2.78	
Total BTEX	<0.300	0.300	11/05/2016	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	11/03/2016	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	11/03/2016	ND	200	100	200	0.268	
DRO >C10-C28	26.6	10.0	11/03/2016	ND	217	108	200	5.65	

Surrogate: 1-Chlorooctane 91.0 % 35-147

Surrogate: 1-Chlorooctadecane 94.6 % 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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Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

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CHECKED BY:

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