

January 11, 2016

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

RECEIVED

By JKeyes at 8:41 am, Feb 05, 2016

APPROVED Conditionally

By JKeyes at 8:41 am, Feb 05, 2016

**Re: Federal USA J #1
30-025-20367
Sec. 30, T19S-R32E
Lea County, NM**

Stipulations:

Excavate 4' bgs and install a 20 mil liner.
Due to incomplete vertical delineation RP will remain open until site abandonment at which point in time complete delineation will need to occur.
Ensure BLM concurrence/approval.

Ms. Kellie Jones,

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 August 25, 2015.

Background

The release was due to a split in the poly line resulting in the release of 5 barrels of oil and 85 barrels of produced water of which 2 barrels of oil and 35 barrels of produced water were recovered. The release was contained within a low lying area in the pasture impacting an approximately 850 ft². The attached Site Diagram depicts the approximate area impacted by the release along with the approximate sampling points and coordinates of the impacted area.

Groundwater

Based on the Chevron-Texaco Trend Maps, the release area would be classified at a site ranking of **Zero** with depth to groundwater at greater than 600'.

Soil Assessment and Analytical Results

Sample points noted on the attached Site Diagram were chosen based on the release pooling area. The depth of samples were taken to the point at which the back hoe could reach and the depth at which caliche made it impenetrable. Below is a summary of the attached analytical results:

S1	BTEX	GRO	DRO	TPH	Cl-
1'	27.5	1340	6360	7700	128
2'	94.8	1890	6980	8870	240
3'	ND	ND	ND	0	528
4'	ND	ND	25	25	1640
6'	ND	ND	ND	0	17600
8'	ND	ND	15.5	15.5	13200
S2	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	14.8	14.8	1960
2'	ND	ND	ND	0	4640
3'	ND	ND	ND	0	4320
4'	ND	ND	10.2	10.2	1250
6'	ND	ND	ND	0	16800
8'	ND	ND	ND	0	17600
10'	ND	ND	ND	0	20000
12'	ND	ND	102	102	16000

Work Plan

COG Operating LLC proposes the impacted area be excavated to a depth of 3'. The release pooled in a low lying area, therefore backfill would consist of 2' of packed caliche and 2' of topsoil in order to bring the grade to an elevation above the surrounding pasture. With depth to ground water at greater than 600', chlorides would be immobilized and would pose no threat to ground water.

During excavation, every attempt will be made to delineate the impacted area with the use of a backhoe and field titrations. Samples taken during field titrations will be submitted to a third party lab for analysis and provided upon request for closure of the release. Typically if full delineation cannot be achieved through the use of a backhoe, a trac hoe or soil boring unit is brought in for full delineation. In this situation, the use of any equipment other than a back hoe will not be practical due to the safety concerns associated with the overhead powerlines. The proximity of the release to the overhead powerlines would prevent the usage of such equipment due to setback restraints.

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns at (575) 689-3100.

Sincerely,

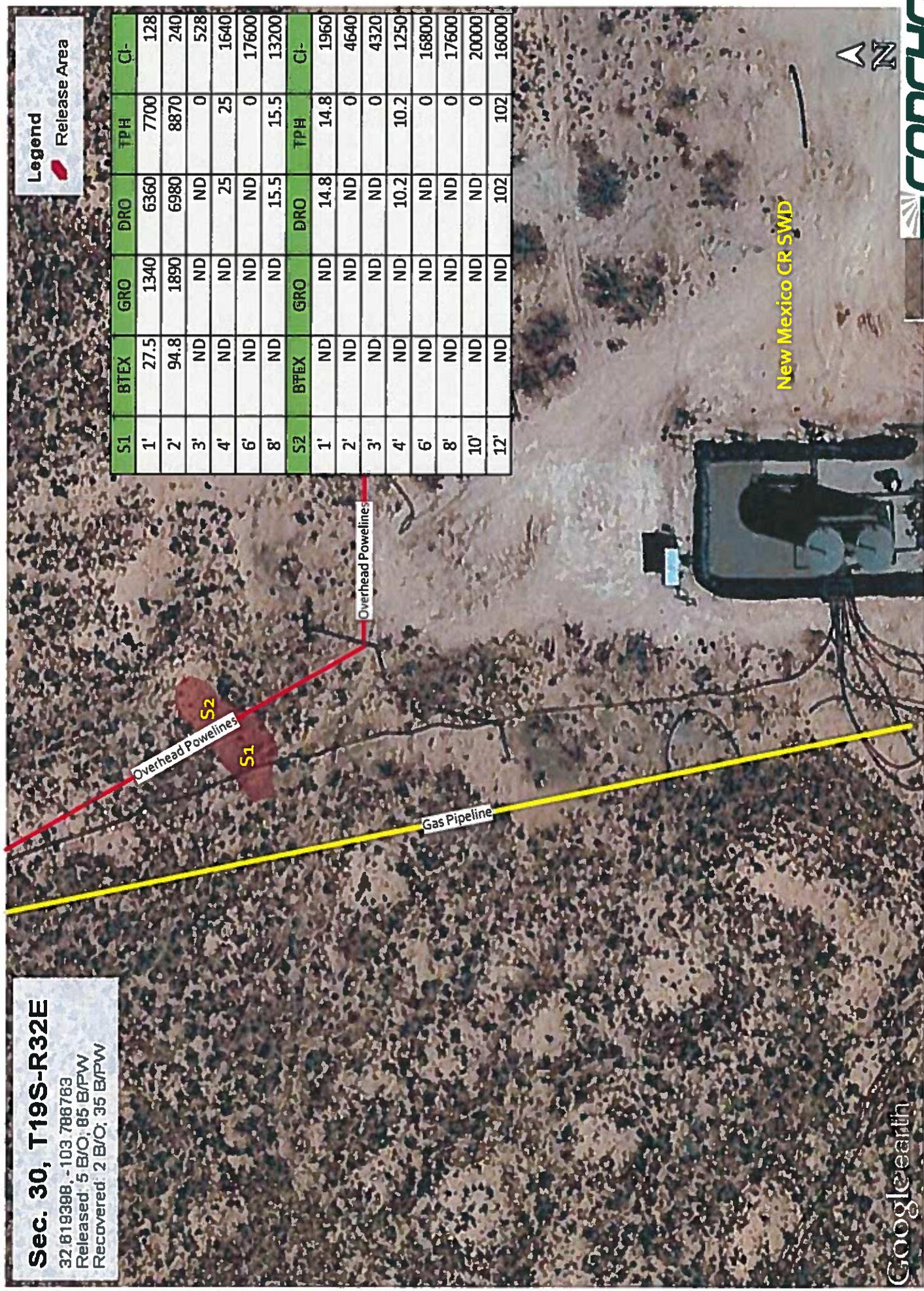


Lupe Carrasco
Environmental Coordinator

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

Federal USA J #1

August 25, 2015



Sec. 30, T19S-R32E
 32 619398, -103 766763
 Released: 5 B/O; 85 B/PW
 Recovered: 2 B/O; 35 B/PW

Legend
 Release Area

S1	BTEX	GRO	DRO	TPH	Cl-
1'	27.5	1340	6360	7700	128
2'	94.8	1890	6980	8870	240
3'	ND	ND	ND	0	528
4'	ND	ND	25	25	1640
6'	ND	ND	ND	0	17600
8'	ND	ND	15.5	15.5	13200
S2	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	14.8	14.8	1960
2'	ND	ND	ND	0	4640
3'	ND	ND	ND	0	4320
4'	ND	ND	10.2	10.2	1250
6'	ND	ND	ND	0	16800
8'	ND	ND	ND	0	17600
10'	ND	ND	ND	0	20000
12'	ND	ND	102	102	16000

Googleearth

New Mexico CR SWD



November 04, 2015

LUPE CARRASCO
COG OPERATING
P. O. BOX 1630
ARTESIA, NM 88210

RE: FEDERAL USA J #1

Enclosed are the results of analyses for samples received by the laboratory on 10/28/15 11:30.

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 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,



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: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S1-1' (H502826-01)

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	11/03/2015	ND	1.92	95.9	2.00	0.538		
Toluene*	1.00	0.500	11/03/2015	ND	2.12	106	2.00	0.745		
Ethylbenzene*	<0.500	0.500	11/03/2015	ND	1.93	96.7	2.00	0.372		
Total Xylenes*	26.5	1.50	11/03/2015	ND	6.13	102	6.00	0.140		
Total BTEX	27.5	3.00	11/03/2015	ND						

Surrogate 4-Bromofluorobenzene (PIC) 133 % 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	128	16.0	11/03/2015	ND	432	108	400	7.69		

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	1340	50.0	10/30/2015	ND	210	105	200	1.78			
DRO >C10-C28	6360	50.0	10/30/2015	ND	218	109	200	1.40			

Surrogate 1-Chlorooctane 166 % 35-147

Surrogate 1-Chlorooctadecane 199 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S1-2' (H502826-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	2.57	1.00	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	9.89	1.00	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	82.3	3.00	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	94.8	6.00	11/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 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	240	16.0	11/03/2015	ND	432	108	400	7.69	

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	1890	50.0	10/30/2015	ND	210	105	200	1.78		
DRO >C10-C28	6980	50.0	10/30/2015	ND	218	109	200	1.40		

Surrogate: 1-Chlorooctane 153 % 35-147

Surrogate: 1-Chlorooctadecane 198 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S1-3' (H502826-03)

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	11/03/2015	ND	1.92	95.9	2.00	0.538		
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745		
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372		
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140		
Total BTEX	<0.300	0.300	11/03/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 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	11/03/2015	ND	432	108	400	7.69		

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	10/30/2015	ND	210	105	200	1.78		
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40		

Surrogate: 1-Chlorooctane 98.8 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S1-4' (H502826-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	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	1640	16.0	11/03/2015	ND	432	108	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	25.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S1-6' (H502826-05)

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	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	17600	16.0	11/03/2015	ND	432	108	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 96.4 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S1-8' (H502826-06)

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	11/03/2015	ND	1.92	95.9	2.00	0.538		
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745		
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372		
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140		
Total BTEX	<0.300	0.300	11/03/2015	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	13200	16.0	11/03/2015	ND	432	108	400	7.69		

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	11/02/2015	ND	208	104	200	1.44		
DRO >C10-C28	15.5	10.0	11/02/2015	ND	223	112	200	1.44		

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 120 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S2-1' (H502826-07)

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	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	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	1960	16.0	11/03/2015	ND	432	108	400	7.69	

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	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	14.8	10.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 98.1 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S2-2' (H502826-08)

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	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 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	4640	16.0	11/03/2015	ND	432	108	400	7.69	

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	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	<10.0	10.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S2-3' (H502826-09)

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	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 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	4320	16.0	11/03/2015	ND	432	108	400	7.69	

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	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	<10.0	10.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 98.6 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S2-4' (H502826-10)

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	11/04/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/04/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/04/2015	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	1250	16.0	11/03/2015	ND	432	108	400	7.69	

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	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	10.2	10.0	11/02/2015	ND	223	112	200	1.44	

Surrogate 1-Chlorooctane 99.9 % 35-147

Surrogate 1-Chlorooctadecane 110 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S2-6' (H502826-11)

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	11/04/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/04/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 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	16800	16.0	11/03/2015	ND	400	100	400	7.69	

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	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	<10.0	10.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S2-8' (H502826-12)

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	11/04/2015	ND	1.92	95.9	2.00	0.538		
Toluene*	<0.050	0.050	11/04/2015	ND	2.12	106	2.00	0.745		
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	1.93	96.7	2.00	0.372		
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.13	102	6.00	0.140		
Total BTEX	<0.300	0.300	11/04/2015	ND						

Surrogate 4-Bromofluorobenzene (PIE) 108 % 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	17600	16.0	11/03/2015	ND	400	100	400	7.69		

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	11/02/2015	ND	208	104	200	1.44		
DRO >C10-C28	<10.0	10.0	11/02/2015	ND	223	112	200	1.44		

Surrogate 1-Chlorooctane 101 % 35-147

Surrogate 1-Chlorooctadecane 112 % 28-171

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Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S2-10' (H502826-13)

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	11/04/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/04/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106% 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	20000	16.0	11/03/2015	ND	400	100	400	7.69	

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	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	<10.0	10.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 107% 35-147

Surrogate: 1-Chlorooctadecane 117% 28-171

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Analytical Results For:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: FEDERAL USA J #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S2-12' (H502826-14)

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	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTEX	<0.300	0.300	11/04/2015	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	16000	16.0	11/03/2015	ND	400	100	400	7.69	

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	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	102	10.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 99.7 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 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.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: COG Operating LLC	P.O. #:
Project Manager: Lupe Carrasco	Company: COG Operating LLC
Address: 2208 West Main	Attn: Robert McNeill
City: Artesia	Address: 600 W Illinois
State: NM	City: Midland
Zip: 88210	State: TX
Phone #: (575) 748-6940	Zip: 79701
Fax #: (575) 748-6940	Phone #: (432) 221-0386
Project #: Project Owner:	Fax #:
Project Name: Federal USA J #1	
Project Location:	
Sampler Name: Lupe Carrasco	
FOR LAB USE ONLY	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE					
HS0388	S1-1'	X										X	X	X	
	S1-2'	X										X	X	X	
	S1-3'	X										X	X	X	
	S1-4'	X										X	X	X	
	S1-6'	X										X	X	X	
	S1-8'	X										X	X	X	
	S1-10'	X										X	X	X	

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Relinquished By: <i>[Signature]</i>	Date: <i>11/30</i>	Received By: <i>[Signature]</i>	DATE: <i>10/26/15</i>	TIME: <i>3:00</i>	BTEX: <input checked="" type="checkbox"/>	TPH: <input checked="" type="checkbox"/>	Chloride: <input checked="" type="checkbox"/>
Relinquished By: <i>[Signature]</i>	Date: <i>11/30</i>	Received By: <i>[Signature]</i>	DATE: <i>10/26/15</i>	TIME: <i>3:00</i>	BTEX: <input checked="" type="checkbox"/>	TPH: <input checked="" type="checkbox"/>	Chloride: <input checked="" type="checkbox"/>

Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other: <i>#54</i>	Cool / Irtax <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initials: <i>[Signature]</i>
FORM-006 R 2 0	Yes <input type="checkbox"/> No <input type="checkbox"/>	

† Cardinal cannot accept verbal changes. 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

BILL TO

ANALYSIS REQUEST

Company Name: COG Operating LLC	P.O. #:
Project Manager: Lupe Carrasco	Company: COG Operating LLC
Address: 2208 West Main	Attn: Robert McNeill
City: Artesia	Address: 600 W Illinois
State: NM	City: Midland
Zip: 88210	State: TX
Phone #: (575) 748-6940	Zip: 79701
Fax #: (575) 748-6940	Phone #: (432) 221-0388
Project #: Project Owner:	Fax #:
Project Name: Federal USA J #1	
Project Location:	
Sampler Name: Lupe Carrasco	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE					
HO2828	10	X	X									X	X	X	
	9	X	X									X	X	X	
	8	X	X									X	X	X	
	7	X	X									X	X	X	
	6	X	X									X	X	X	
	5	X	X									X	X	X	
	4	X	X									X	X	X	
	3	X	X									X	X	X	
	2	X	X									X	X	X	
	1	X	X									X	X	X	

PLEASE NOTE: Liability and Damages: Customer hereby and clearly releases, indemnifies and holds harmless the provider for any claim arising whether based in contract or tort, and the provider to the extent permitted 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 data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services provided by Cardinal. Limitation of remedies: such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: 10/26/15	Received By: <i>[Signature]</i>	Time: 11:30
Delivered By: (Circle One) UPS - Bus - Other: <i>Bus</i>	Sample Condition Cool <input checked="" type="checkbox"/> <input type="checkbox"/> Wet <input type="checkbox"/> <input type="checkbox"/> Dry <input type="checkbox"/> <input type="checkbox"/>	Checked By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
FORM-008 R 2.0	3.00c		ADD'l Phone #: ADD'l Fax #: FAX RESULT: REMARKS: <i>Run until chlorides fall below 1000 ppm</i>

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

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: Federal USA J #1	Facility Type: Battery

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-025-20367
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	30	19S	32E	990'	South	660'	East	Lea

Latitude 32.6269188 Longitude -103.799057

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 5 bbls Oil ; 85 bbls PW	Volume Recovered: 2 bbls Oil ; 35 bbls PW
Source of Release: Poly Flowline Leak	Date and Hour of Occurrence: 8/25/2015 2:00pm	Date and Hour of Discovery: 8/25/2015 2:00pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones - NMOCD	
By Whom? Amanda Trujillo	Date and Hour: Thu 8/27/2015 5:16 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a poly flowline. Vacuum trucks were dispatched to recover all standing fluids and repairs were made to the flowline.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture approximately 100' from the pad. 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.

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Amanda Trujillo	Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: atrujillo@concho.com	Conditions of Approval:	
Date: September 18, 2015	Phone: 575-748-6940	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary