SOIL REMEDIATION WORKPLAN FOR INCIDENT 2RP-2834

COG OPERATING LLC
JENKINS B FEDERAL #007
API# 30-015-29451
SECTION 20, T17S R30E, NM
EDDY COUNTY, NM

Prepared by:
Souder, Miller & Associates
201 S. Halagueno
Carlsbad, NM 88221
575-689-7040

Prepared for:
COG Operating LLC
2407 Pecos Ave
Artesia, NM 88210

May 29, 2015
Reference 5B23978 BG4

Table of Contents

INTRODUCTION

On behalf of COG OPERATING LLC (COG), Souder Miller & Associates (SMA) has prepared this report of closure activities related to incident #2RP-2834, providing a summary of the releases and spill response efforts at the JENKINS B FEDERAL #007, a lease held by COG Operating. For #2RP-2834, on January 1, 2015, according to the Release Notification and Corrective Action Form C-141, all standing fluid was recovered by vacuum trucks and disposed of at an NMOCD approved facility. According to the initial C-141, "This release impacted the nearby pasture area. 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. " (Appendix B). The total volume of the release was estimated at 5 bbls of oil and 25 bbls of produced water. A vacuum truck removed 4 bbls of oil and 24 of produced water according to the Release Notification and Corrective Action Form C-141.

The site is located in Unit E, Section 20, Township 17 South, Range 30 East, Eddy County, New Mexico. Figure 1, Site Location Map, illustrates the location of the release.

This document presents the results of the initial assessment and soil sampling performed at the Site, the regulatory framework for existing activities, and a summary of work done at the location to facilitate incident mitigation and closure. Site details, sampling locations and the remedial excavation area are presented in Figure 2, Site Details and Sample Location Map. Appendices include the laboratory analytical reports for the initial sampling, New Mexico Oil Conservation Division (NMOCD) Form C-141 (initial), and the manifest for the transport and disposal of RCRA exempt soils generated from the initial response to the NMOCD approved facility Lea Land Inc.

REGULATORY FRAMEWORK AND SITE CLASSIFICATION

This project was conducted under the regulatory jurisdiction of the NMOCD, which requires the vadose zone to be abated so that water contaminants in the vadose zone will not, with reasonable probability, contaminate groundwater or surface water (toxic pollutants as defined in 20.6.2.7 New Mexico Administration Code shall not be present) through leaching, percolation, or other transport mechanisms (19.15.1.19 NMAC, Subsection B, Paragraphs 1 and 2). The NMOCD hydrocarbon soil remediation levels are determined by ranking criteria on a site-by-site basis, as outlined in the NMOCD "Guidelines for Remediation of Spills, Leaks, and Releases", dated August 13, 1993. The ranking criteria are based on three site characteristics: depth to groundwater, wellhead protection, and distance to surface water.

According to the Office of the State Engineer's records, no water wells are located within 1,000 feet of the well pad and tank battery. The estimated depth to groundwater is less than 100 feet (80) below ground surface. No surface water bodies are located within 1,000 feet of the well pad and battery. The table below illustrates the ranking criteria, used by the NMOCD, and includes site specific characteristics at the Jenkins B Federal #007 location.

Criteria Site Characteristics		Ranking Score
Depth to Ground Water	<100 feet (80ft)	10
Wellhead Protection Area	>1000 feet	0
Distance to Surface Water	>1000 feet	0
Total Ranking Score		10

Based on the site characteristics and the NMOCD guidelines, the site has a ranking score of 10. Consequently, Recommended Remediation Action Levels (RRALs) of 10 milligrams per kilogram (mg/Kg)

Benzene, 50 mg/Kg total Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX); and 1000 mg/Kg Total Petroleum Hydrocarbons (TPH) are proposed for remediation action levels at the site.

INITIAL SOIL SAMPLING RESULTS

Soil samples were taken at depths ranging from 24 inches below surface grade (bsg) to 33 inches bsg. Specific sample locations for all samples are depicted on Figure 2 (Sample Location Map) along with sampling details. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for Benzene and Total BTEX using EPA Method 8021B, DRO and GRO by EPA Method 8015D, and total Chlorides using EPA Method 300.0.

TABLE 1 PAD AREA

Analytical Report- 1505719	Sample Number on Figure 2 Map	Sample Date	Depth	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl- mg/Kg
001	J2	5/13/15	34”	BDL	BDL	N/A	N/A	1700
002	J1	5/13/15	24”	N/A	N/A	N/A	N/A	5100
003	J3	5/13/15	33”	BDL	BDL	N/A	N/A	7800

N/A – Not Analyzed BDL – Below Detection Limits for the Method. Refer to Analytical Reports Appendix A

All laboratory analytical results are below the site specific NMOCD RRALs based on the ranking criteria.

SOIL REMEDIATION WORKPLAN

The initial soil assessment activities performed by SMA effectively delineated the horizontal and vertical extent of Chloride and hydrocarbon affected soils in accordance to NMOCD regulatory guidance. The excavation will be guided by SMA personnel in the field, using EPA Method 4500 titrations along with a properly calibrated Photoionization Detector in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases. Excavation will occur at different depths within the spill area. In Area 1, excavation will be to 12-18 inches bsg. In Area 2, excavation will be performed to 12-18 inches bsg. In Area 3, the excavation will go to 24 inches bsg. Samples will be taken in the sidewalls and bottom to ensure contaminated soils have been removed. All soil will be hauled to an NMOCD approved waste facility. A tractor will rip the bottom of the excavation and new top soil will be added to bring the excavated area to surface grade.

After excavation, secondary sampling in the side walls of the excavation will be done. Sampling will be performed to help confirm that all contaminated soil had been removed in the horizontal plane.

CONFIRMATION SAMPLING

After excavation is completed, side-wall and bottom hole samples will be taken to confirm that the contaminated soils have been removed to the horizontal and vertical extent of the spill. Each sample container will be labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F (4°C). The cooler will be sealed for shipment to the laboratory, accompanied by proper chain-of-custody documentation. The soil samples will be delivered to Hall Environmental Analysis Laboratory, Inc., in Albuquerque, New Mexico for analysis for Benzene and Total BTEX using EPA Method 8021B, DRO and GRO by EPA Method 8015D, and total Chlorides using EPA Method 300.0.

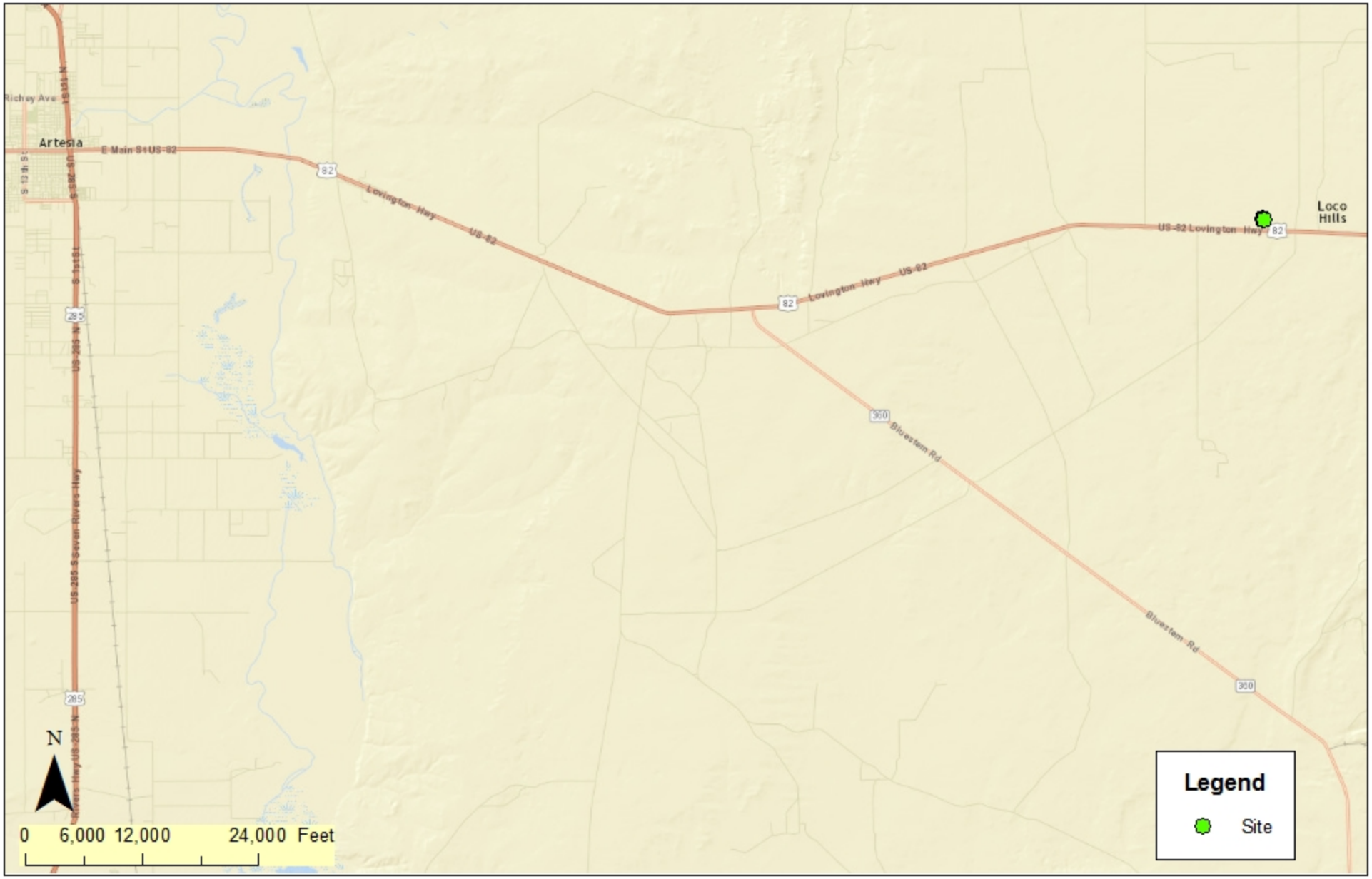
SITE CLOSURE

All excavated impacted soils will be transported to an NMOCD approved facility for disposal. The soils remaining at the limits of the excavation will be sampled by SMA and tested by a third party laboratory confirming that the soil left in place meets the site-specific NMOCD closure levels of 10 mg/Kg Benzene, 50 mg/Kg total BTEX and 1000 mg/Kg TPH (DRO and GRO). A closure request will be submitted to the NMOCD as a C-141 final.

LIST OF FIGURES

APPENDICES

FIGURE 1
SITE LOCATION MAP



Site Location Map
Jenkins B Federal #7 - COG
Loco Hill, New Mexico

Figure 1

Revisions
By: Date: Descr:
By: Date: Descr:

Date Saved: 5/19/2015

Drawn Lucas Middleton
Checked
Approved

SMA
201 South Halagueno Street
Carlsbad, New Mexico 88221
(575) 689-5351
www.soudermiller.com
Serving the Southwest & Rocky Mountains

Document1:C:\Users\lucas\Documents\Maps\Carlsbad Temp\Jenkins B Fed #7 location - COG.mxd

FIGURE 2

SITE DETAILS AND SAMPLE LOCATIONS MAP

Sample Location Map
Jenkins B Federal #7 - COG
Loco Hill, New Mexico

Figure 2

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Lucas Middleton
Checked
Approved

Date Saved: 9/16/2015

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www.soudermiller.com
Serving the Southwest & Rocky Mountains

Document: C:\Users\kevin\Documents\Maps\Carlsbad Temp\Jenkins B Fed #7 random sample - COG.mxd

APPENDIX A

LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 22, 2015

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Jenkins OrderNo.: 1505719

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/15/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: RRS-i2
Project: Jenkins
Collection Date: 5/13/2015 10:00:00 AM
Lab ID: 1505719-001
Matrix: SOIL
Received Date: 5/15/2015 9:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	1700	75		mg/Kg	50	5/20/2015 4:22:22 PM	19298
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	5/18/2015 9:42:05 PM	19255
Benzene	ND	0.050		mg/Kg	1	5/18/2015 9:42:05 PM	19255
Toluene	ND	0.050		mg/Kg	1	5/18/2015 9:42:05 PM	19255
Ethylbenzene	ND	0.050		mg/Kg	1	5/18/2015 9:42:05 PM	19255
Xylenes, Total	ND	0.10		mg/Kg	1	5/18/2015 9:42:05 PM	19255
Surr: 4-Bromofluorobenzene	114	80-120		%REC	1	5/18/2015 9:42:05 PM	19255

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: RR 4
Project: Jenkins
Collection Date: 5/13/2015 10:00:00 AM
Lab ID: 1505719-002
Matrix: SOIL
Received Date: 5/15/2015 9:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	5100	300		mg/Kg	200	5/20/2015 4:34:47 PM	19298

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: R1-1
Project: Jenkins
Collection Date: 5/13/2015 10:00:00 AM
Lab ID: 1505719-003
Matrix: SOIL
Received Date: 5/15/2015 9:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	7800	300		mg/Kg	200	5/20/2015 5:12:01 PM	19298
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	5/19/2015 12:59:07 PM	19269
Benzene	ND	0.050		mg/Kg	1	5/19/2015 12:59:07 PM	19269
Toluene	ND	0.050		mg/Kg	1	5/19/2015 12:59:07 PM	19269
Ethylbenzene	ND	0.050		mg/Kg	1	5/19/2015 12:59:07 PM	19269
Xylenes, Total	ND	0.10		mg/Kg	1	5/19/2015 12:59:07 PM	19269
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	5/19/2015 12:59:07 PM	19269

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505719**

22-May-15

Client: Souder, Miller & Associates

Project: Jenkins

Sample ID	**MB-19298**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**19298**	RunNo:	**26305**					
Prep Date:	**5/19/2015**	Analysis Date:	**5/19/2015**	SeqNo:	**781402**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-19298**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**19298**	RunNo:	**26305**					
Prep Date:	**5/19/2015**	Analysis Date:	**5/19/2015**	SeqNo:	**781403**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505719**

22-May-15

Client: Souder, Miller & Associates

Project: Jenkins

Sample ID	**MB-19255**	SampType: **MBLK**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID: **19255**		RunNo: **26255**					
Prep Date:	**5/15/2015**	Analysis Date: **5/18/2015**		SeqNo: **779647**		Units: **mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	**LCS-19255**	SampType: **LCS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID: **19255**		RunNo: **26255**					
Prep Date:	**5/15/2015**	Analysis Date: **5/18/2015**		SeqNo: **779908**		Units: **mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.1	0.10	1.000	0	112	69.8	143			
Benzene	1.2	0.050	1.000	0	115	76.6	128			
Toluene	1.1	0.050	1.000	0	110	75	124			
Ethylbenzene	1.1	0.050	1.000	0	113	79.5	126			
Xylenes, Total	3.4	0.10	3.000	0	113	78.8	124			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID	**MB-19269**	SampType: **MBLK**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID: **19269**		RunNo: **26270**					
Prep Date:	**5/16/2015**	Analysis Date: **5/19/2015**		SeqNo: **780317**		Units: **mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	**1505719-003AMS**	SampType: **MS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**R1-1**	Batch ID: **19269**		RunNo: **26270**					
Prep Date:	**5/18/2015**	Analysis Date: **5/19/2015**		SeqNo: **781896**		Units: **mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.0	0.098	0.9843	0	101	71.8	123			
Benzene	1.1	0.049	0.9843	0	107	69.2	126			
Toluene	1.0	0.049	0.9843	0	102	65.6	128			
Ethylbenzene	1.0	0.049	0.9843	0	106	65.5	138			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505719**

22-May-15

Client: Souder, Miller & Associates

Project: Jenkins

Sample ID **1505719-003AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **R1-1**	Batch ID: **19269**	RunNo: **26270**
Prep Date: **5/18/2015**	Analysis Date: **5/19/2015**	SeqNo: **781896** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	3.2	0.098	2.953	0	107	63	139			
Surr: 4-Bromofluorobenzene	1.1		0.9843		108	80	120			

Sample ID **1505719-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **R1-1**	Batch ID: **19269**	RunNo: **26270**
Prep Date: **5/18/2015**	Analysis Date: **5/19/2015**	SeqNo: **781897** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.0	0.10	0.9960	0	104	71.8	123	4.26	21.2	
Benzene	1.1	0.050	0.9960	0	109	69.2	126	3.19	18.5	
Toluene	1.0	0.050	0.9960	0	105	65.6	128	4.03	20.6	
Ethylbenzene	1.1	0.050	0.9960	0	112	65.5	138	6.51	20.1	
Xylenes, Total	3.3	0.10	2.988	0	111	63	139	5.30	21.1	
Surr: 4-Bromofluorobenzene	1.1		0.9960		109	80	120	0	0	

Sample ID **LCS-19269**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **19269**	RunNo: **26270**
Prep Date: **5/16/2015**	Analysis Date: **5/19/2015**	SeqNo: **781904** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.1	0.10	1.000	0	108	69.8	143			
Benzene	1.1	0.050	1.000	0	106	76.6	128			
Toluene	1.0	0.050	1.000	0	101	75	124			
Ethylbenzene	1.0	0.050	1.000	0	104	79.5	126			
Xylenes, Total	3.1	0.10	3.000	0	103	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1505719 RcptNo: 1

Received by/date: CS 05/15/15

Logged By: Ashley Gallegos 5/15/2015 9:08:00 AM

Completed By: Ashley Gallegos 5/15/2015 11:43:21 AM

Reviewed By: CS 05/15/15

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes			

Chain-of-Custody Record

Client: Souder Miller and Associates

Mailing Address: 201 S Halagueno Carlsbad,NM 88220

Phone #: 575-689-5351

email or Fax#: lucas.middleton@soudermiller.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush

Project Name: Jenkins

Project #: SB23978-B64

Project Manager: Austin Weyant

Sampler: LCM

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.5°C

HALL ENVIRONME
ANALYSIS LABORA

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1505719	BTEX + MTBE + TMB's (8021	BTEX + MTBE + TPH (Gas on	TPH Method 8015B (Gas/Di	TPH (Method 418.1)	RCRA 8 Metals	Anions (Cl)
5-13-15	1000	Soil	RLS-2	1-oz		-001	✓					✓
5-13-15	1000	Soil	RR 4	4oz		-002						✓
5-13-15	1000	Soil	R1-1	4oz		-003	✓					✓

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
			Celina Sanchez	05/13/15		0908
Date:	Time:	Relinquished by:	Received by:	Date	Time	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the

APPENDIX B
FORM C141 INITIAL

NM OIL CONSERVATION
ARTESIA DISTRICT
FEB 23 2015
RECEIVED

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

nAB1505628052

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC 229137	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: Jenkins B Federal #7	Facility Type: Wellhead

Surface Owner: Federal	Mineral Owner:	API No. 30-015-29451

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	20	17S	30E	1650	North	1090	West	Eddy

Latitude 32.8228242435965 **Longitude** -103.999198214662

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 5 bbls Oil; 25 bbls PW	Volume Recovered: 4 bbls Oil; 24 bbls PW
Source of Release: Poly Flowline	Date and Hour of Occurrence: 1/30/2015 11:00 am	Date and Hour of Discovery: 1/30/2015 11:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher – NMOCD / Jeff Robertson - BLM	
By Whom? Amanda Trujillo	Date and Hour: 1/30/2015 5:53 pm	
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.*
This release was caused when a weld failed on a poly flowline. Vacuum trucks were dispatched to recover the standing fluid and dispose of at an NMOCD approved facility. The flowline was repaired.

Describe Area Affected and Cleanup Action Taken.*

This release impacted the nearby pasture area. 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: A Trujillo	OIL CONSERVATION DIVISION
Printed Name: Amanda Trujillo	Approved by Environmental Specialist:
Title: Senior Environmental Coordinator	Approval Date: 2/25/15 Expiration Date: N/A
E-mail Address: atrujillo@concho.com	Conditions of Approval: Attached ☐
Date: February 23, 2015 Phone: 575-748-6940	Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 3/25/15

* Attach Additional Sheets If Necessary

2RP-2834