FINAL REPORT SUMMARIZING CLOSURE FOR INCIDENT 2RP-2919

RICHARDS ENERGY COMPRESSION
RJ UNIT #129
API# 30-015-03780
SECTION 35, T17S R29E, NM
EDDY, NM

Prepared by:
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Carlsbad, NM 88221
575-689-7040

Prepared for:
Richards Energy Compression
3222 North Enterprise Drive
Hobbs, NM 88240

April 07, 2015
Reference 5B23838 BG1

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INTRODUCTION

On behalf of Richards Energy Compression, Souder Miller & Associates (SMA) has prepared this report of closure activities related to incident # 2RP-2919, providing a summary of the release and spill response efforts at the RJ Unit #129, a lease held by COG Operating. For #2RP-2919, On March 05, 2015 according to the Release Notification and Corrective Action Form C-141, a Compression service company drove over the line causing the line to break. A backhoe was on site and able to isolate the impacted area quickly. According to the initial C-141, "The impacted area was approximately 10' X 300' in the roadway. The backhoe scraped up the impacted soil and hauled to a NMOCD approved facility." (Appendix B). The total volume of releases was estimated at 3 bbls of oil and 10 bbls of produced water.

The site is located in Unit F, Section 35, Township 17 South, Range 29 East, Eddy, 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 designed to facilitate incident mitigation and closure. Site details, sampling locations and the remedial excavation area are presented in Figure 2. Appendices include the laboratory analytical reports for the initial sampling, New Mexico Oil Conservation Division (NMOCD) form C-141 (final), and the manifest for the transport and disposal of RCRA exempt soils 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 greater than 100 feet 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 West Brushy 8 location.

Criteria Site Characteristics		Ranking Score
Depth to Ground Water	>100 feet	0
Wellhead Protection Area	>1000 feet	0
Distance to Surface Water	>1000 feet	0
Total Ranking Score		0

Based on the site characteristics and the NMOCD guidelines, the site has a ranking score of 0. 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 5000 mg/Kg Total Petroleum Hydrocarbons (TPH) are proposed for remediation at the site.

SOIL SAMPLING RESULTS

Samples were taken after the initial spill response clean up occurred. Sample locations RJ 1 thought RJ4 are samples taken with the spill area shown in Table 1. Sample RJ 5 is a representative sample of the spill pile and BG1 is the background sample of the area. Specific sample locations 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 BTEX utilizing EPA Method 8021B, GRO and MRO using EPA Method 8015D and Total Chlorides using EPA Method 300.0.

TABLE 1 SPILL SAMPLES

Analytical Report- 1503775	Sample Number on Figure 2 Map	Sample Date	Depth	BTEX mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl- mg/Kg
1503775-001	RJ 1	3/13/2015	Surface	N/A	BDL	1100	3600
1503775-002	RJ 2	3/13/2015	Surface	N/A	BDL	500	2400
1503775-003	RJ 3	3/13/2015	Surface	N/A	BDL	140	3200
1503775-004	RJ 4	3/13/2015	Surface	0.48	9	350	1200
1503775-005	RJ 5	3/13/2015	Surface	4.2	120	8300	4300
1503775-006	BG 1	3/13/2015	Surface	BDL	BDL	36	3000

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

All laboratory analytical results expect for RJ 5, the spill pile sample are below the site specific NMOCD RRALs based on the ranking criteria.

PROJECT SUMMARY

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. These activities were performed after the contaminated soil was removed.

Based on the initial soil sampling results for the Site (Analytical Report- 1503775), excavation activities were affective in nature and did not exceed 6 inches in depth reached in the Initial Response Action. All contaminated soil was excavated using heavy equipment and transported off location to an NMOCD approved disposal facility. Soil samples were taken within the excavation to confirm that remediation goals had been achieved. The samples were sent to a third party laboratory for analysis and are summarized in Table #1.

CONFIRMATION SAMPLING

The initial samples taken by SMA, will act as confirmation samples as well. Locations of the confirmation samples in the spill area (Figure 2). Each sample container was labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F (4°C). The cooler was sealed for shipment to the laboratory, accompanied by proper chain-of-custody documentation. The soil samples were delivered on 03/18/15 to Hall Environmental Analysis Laboratory, Inc., in Albuquerque, New Mexico for analysis by EPA METHOD 8015D, EPA METHOD 8021B and EPA METHOD 300.

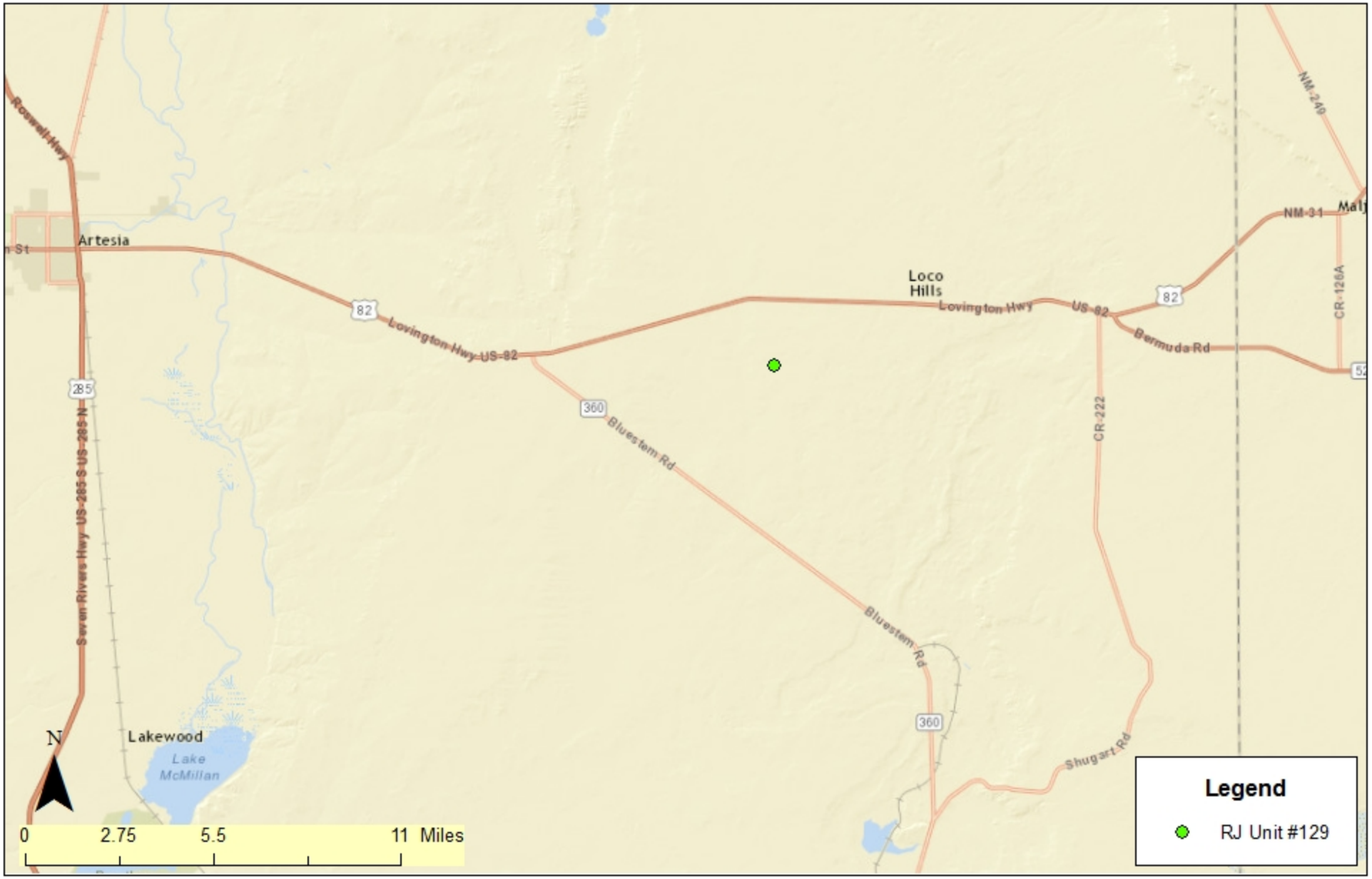
SITE CLOSURE

All excavated contaminated soil was transported to an NMOCD approved disposal facility. The soils was sampled by SMA and tested by a third party laboratory (Table 1) confirming that the soil meets the site-specific NMOCD is cleanup levels of 10 mg/Kg Benzene, 50 mg/Kg total BTEX and 5000 mg/Kg TPH. A closure request was submitted to the NMOCD as a C-141 final on 04/06/15 (Appendix B).

LIST OF FIGURES

APPENDICES

FIGURE 1
SITE LOCATION MAP



Location Map
RJ Unit #129
Artesia, New Mexico

Figure 1

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

Date Saved: 3/31/2015

Drawn Lucas Middleton
Checked
Approved

SMA

201 South Halagueno Street
Carlsbad, New Mexico 88221
(575) 689 7040
www.soudermiller.com
Serving the Southwest & Rocky Mountains

Document1:C:\Alberto\Work\Documents\Maps\RJ 129 Figure 1.mxd

FIGURE 2

SITE DETAILS AND SAMPLE LOCATIONS MAP

Site Map
RJ Unit #129
Artesia, New Mexico

Figure 2

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

Drawn Lucas Middleton
Checked
Approved

Date Saved: 3/31/2015

SMA
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Document1:C:\Users\Lucas\Documents\Maps\RJ 129 Figure 2.mxd

APPENDIX A

LABORATORY ANALYTICAL REPORTS

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

March 30, 2015

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

RE: RJ Unit 129 OrderNo.: 1503775

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/18/2015 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

Analytical Report
Lab Order **1503775**
Date Reported: **3/30/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Client Sample ID: RJ 1
Project: RJ Unit 129
Collection Date: 3/13/2015 9:00:00 AM
Lab ID: 1503775-001
Matrix: SOIL
Received Date: 3/18/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	1100	99		mg/Kg	10	3/21/2015 10:08:50 PM	18201
Surr: DNOP	0	63.5-128	S	%REC	10	3/21/2015 10:08:50 PM	18201
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2015 11:30:01 PM	18213
Surr: BFB	92.1	80-120		%REC	1	3/19/2015 11:30:01 PM	18213
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.048		mg/Kg	1	3/19/2015 11:30:01 PM	18213
Toluene	ND	0.048		mg/Kg	1	3/19/2015 11:30:01 PM	18213
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2015 11:30:01 PM	18213
Xylenes, Total	ND	0.096		mg/Kg	1	3/19/2015 11:30:01 PM	18213
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	3/19/2015 11:30:01 PM	18213
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	3600	150		mg/Kg	100	3/26/2015 3:54:31 AM	18295

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: RJ 2
Project: RJ Unit 129
Collection Date: 3/13/2015 9:00:00 AM
Lab ID: 1503775-002
Matrix: SOIL
Received Date: 3/18/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	500	98		mg/Kg	10	3/21/2015 10:51:44 PM	18201
Surr: DNOP	0	63.5-128	S	%REC	10	3/21/2015 10:51:44 PM	18201
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2015 12:56:08 AM	18213
Surr: BFB	94.9	80-120		%REC	1	3/20/2015 12:56:08 AM	18213
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.048		mg/Kg	1	3/20/2015 12:56:08 AM	18213
Toluene	ND	0.048		mg/Kg	1	3/20/2015 12:56:08 AM	18213
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2015 12:56:08 AM	18213
Xylenes, Total	ND	0.096		mg/Kg	1	3/20/2015 12:56:08 AM	18213
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	3/20/2015 12:56:08 AM	18213
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	2400	75		mg/Kg	50	3/26/2015 4:06:56 AM	18295

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: RJ 3
Project: RJ Unit 129
Collection Date: 3/13/2015 9:00:00 AM
Lab ID: 1503775-003
Matrix: SOIL
Received Date: 3/18/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	140	10		mg/Kg	1	3/21/2015 11:34:39 PM	18201
Surr: DNOP	128	63.5-128	S	%REC	1	3/21/2015 11:34:39 PM	18201
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2015 12:07:02 PM	18213
Surr: BFB	95.6	80-120		%REC	1	3/20/2015 12:07:02 PM	18213
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.048		mg/Kg	1	3/20/2015 12:07:02 PM	18213
Toluene	ND	0.048		mg/Kg	1	3/20/2015 12:07:02 PM	18213
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2015 12:07:02 PM	18213
Xylenes, Total	ND	0.097		mg/Kg	1	3/20/2015 12:07:02 PM	18213
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	3/20/2015 12:07:02 PM	18213
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	3200	150		mg/Kg	100	3/26/2015 4:19:21 AM	18295

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: RJ 4
Project: RJ Unit 129
Collection Date: 3/13/2015 9:00:00 AM
Lab ID: 1503775-004
Matrix: SOIL
Received Date: 3/18/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	350	99		mg/Kg	10	3/22/2015 12:17:24 AM	18201
Surr: DNOP	0	63.5-128	S	%REC	10	3/22/2015 12:17:24 AM	18201
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	9.0	4.7		mg/Kg	1	3/20/2015 12:35:44 PM	18213
Surr: BFB	151	80-120	S	%REC	1	3/20/2015 12:35:44 PM	18213
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.047		mg/Kg	1	3/20/2015 12:35:44 PM	18213
Toluene	ND	0.047		mg/Kg	1	3/20/2015 12:35:44 PM	18213
Ethylbenzene	0.16	0.047		mg/Kg	1	3/20/2015 12:35:44 PM	18213
Xylenes, Total	0.32	0.095		mg/Kg	1	3/20/2015 12:35:44 PM	18213
Surr: 4-Bromofluorobenzene	122	80-120	S	%REC	1	3/20/2015 12:35:44 PM	18213
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	1200	30		mg/Kg	20	3/24/2015 12:55:54 PM	18295

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: RJ 5
Project: RJ Unit 129
Collection Date: 3/13/2015 9:00:00 AM
Lab ID: 1503775-005
Matrix: SOIL
Received Date: 3/18/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	8300	1000		mg/Kg	100	3/22/2015 12:59:54 AM	18201
Surr: DNOP	0	63.5-128	S	%REC	100	3/22/2015 12:59:54 AM	18201
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	120	19		mg/Kg	4	3/20/2015 1:04:27 PM	18213
Surr: BFB	242	80-120	S	%REC	4	3/20/2015 1:04:27 PM	18213
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.19		mg/Kg	4	3/20/2015 1:04:27 PM	18213
Toluene	ND	0.19		mg/Kg	4	3/20/2015 1:04:27 PM	18213
Ethylbenzene	1.4	0.19		mg/Kg	4	3/20/2015 1:04:27 PM	18213
Xylenes, Total	2.9	0.38		mg/Kg	4	3/20/2015 1:04:27 PM	18213
Surr: 4-Bromofluorobenzene	143	80-120	S	%REC	4	3/20/2015 1:04:27 PM	18213
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	4300	150		mg/Kg	100	3/26/2015 4:31:45 AM	18295

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: BG 1
Project: RJ Unit 129
Collection Date: 3/13/2015 9:00:00 AM
Lab ID: 1503775-006
Matrix: SOIL
Received Date: 3/18/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	36	9.9		mg/Kg	1	3/21/2015 2:31:34 PM	18201
Surr: DNOP	104	63.5-128		%REC	1	3/21/2015 2:31:34 PM	18201
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2015 2:01:44 PM	18213
Surr: BFB	95.4	80-120		%REC	1	3/20/2015 2:01:44 PM	18213
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.049		mg/Kg	1	3/20/2015 2:01:44 PM	18213
Toluene	ND	0.049		mg/Kg	1	3/20/2015 2:01:44 PM	18213
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2015 2:01:44 PM	18213
Xylenes, Total	ND	0.098		mg/Kg	1	3/20/2015 2:01:44 PM	18213
Surr: 4-Bromofluorobenzene	121	80-120	S	%REC	1	3/20/2015 2:01:44 PM	18213
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	3000	150		mg/Kg	100	3/26/2015 4:44:09 AM	18295

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#: **1503775**

30-Mar-15

Client: Souder, Miller & Associates

Project: RJ Unit 129

Sample ID	**MB-18295**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**18295**	RunNo:	**25049**					
Prep Date:	**3/24/2015**	Analysis Date:	**3/24/2015**	SeqNo:	**739028**	Units:	**mg/Kg**			

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

Sample ID	**LCS-18295**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**18295**	RunNo:	**25049**					
Prep Date:	**3/24/2015**	Analysis Date:	**3/24/2015**	SeqNo:	**739029**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	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#: **1503775**

30-Mar-15

Client: Souder, Miller & Associates

Project: RJ Unit 129

Sample ID	**MB-18201**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Diesel Range Organics**
Client ID:	**PBS**	Batch ID:	**18201**	RunNo:	**24912**
Prep Date:	**3/18/2015**	Analysis Date:	**3/19/2015**	SeqNo:	**734292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	12		10.00		124	63.5	128			

Sample ID	**LCS-18201**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Diesel Range Organics**
Client ID:	**LCSS**	Batch ID:	**18201**	RunNo:	**24912**
Prep Date:	**3/18/2015**	Analysis Date:	**3/19/2015**	SeqNo:	**734682** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	67.8	130			
Surr: DNOP	5.0		5.000		99.7	63.5	128			

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#: **1503775**

30-Mar-15

Client: Souder, Miller & Associates

Project: RJ Unit 129

Sample ID **MB-18213**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **18213**	RunNo: **24929**
Prep Date: **3/18/2015**	Analysis Date: **3/19/2015**	SeqNo: **734777** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.4	80	120			

Sample ID **LCS-18213**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **18213**	RunNo: **24929**
Prep Date: **3/18/2015**	Analysis Date: **3/19/2015**	SeqNo: **734778** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	64	130			
Surr: BFB	1000		1000		100	80	120			

Sample ID **1503775-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **RJ 1**	Batch ID: **18213**	RunNo: **24929**
Prep Date: **3/18/2015**	Analysis Date: **3/19/2015**	SeqNo: **734790** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	23.97	0	124	47.9	144			
Surr: BFB	980		958.8		102	80	120			

Sample ID **1503775-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **RJ 1**	Batch ID: **18213**	RunNo: **24929**
Prep Date: **3/18/2015**	Analysis Date: **3/20/2015**	SeqNo: **734791** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.8	24.02	0	128	47.9	144	3.94	29.9	
Surr: BFB	980		960.6		102	80	120	0	0	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1503775**

30-Mar-15

Client: Souder, Miller & Associates

Project: RJ Unit 129

Sample ID	**MB-18213**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**18213**	RunNo:	**24929**					
Prep Date:	**3/18/2015**	Analysis Date:	**3/19/2015**	SeqNo:	**734804**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	**LCS-18213**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**18213**	RunNo:	**24929**					
Prep Date:	**3/18/2015**	Analysis Date:	**3/19/2015**	SeqNo:	**734805**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	76.6	128			
Toluene	0.98	0.050	1.000	0	97.8	75	124			
Ethylbenzene	0.97	0.050	1.000	0	96.8	79.5	126			
Xylenes, Total	2.9	0.10	3.000	0	96.7	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	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: 1503775 | RcptNo: 1

Received by/date: CS 03/18/15

Logged By: Celina Sessa 3/18/2015 9:30:00 AM Celina Sessa

Completed By: Celina Sessa 3/18/2015 9:48:22 AM Celina Sessa

Reviewed By: AG 03/18/15

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	5.0	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: RJ Unit 129

Project #:

Project Manager: Austin Weyant

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.0°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. 1503775	BTEX + MTBE + TMB's (8021	BTEX + MTBE + TPH (Gas on	TPH Method 8015B (Gas/Di	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (Cl)	8081 Pesticides / 8082 PCB	8260B (VOA)	8270 (Semi-VOA)	BTEX
						Analysis Request												
3/13/15	9.00	Soil	RJ 1	4 oz		-001			X					X				X
3/13/15	9:00	Soil	RJ 2	4 oz		-002			X					X				X
3/13/15	9:00	Soil	RJ 3	4 oz		-003			X					X				X
3/13/15	9:00	Soil	RJ 4	4 oz		-004			X					X				X
3/13/15	9:00	Soil	RJ 5	4 oz		-005			X					X				X
3/13/15	9:00	Soil	BG 1	4 oz		-006			X					X				X

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
			Celina Sanchez	03/18/15	0930	
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 analyti

APPENDIX B
FORM C141 FINAL

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: RJ Unit 129	Facility Type: Wellhead

Surface Owner: Federal	Mineral Owner:	API No. 30-015-03780

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	35	17S	29E	1980’	North	1980’	West	Eddy

Latitude32.7928243621668 **Longitude** -104.047528594664

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 3 bbls Oil ; 10 bbls PW	Volume Recovered: 0 bbls Oil ; 0 bbls PW
Source of Release: Flowline	Date and Hour of Occurrence: 3/5/2015 11:00 am	Date and Hour of Discovery: 3/5/2015 11:00 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.*
A driver from Richard’s Energy Compression Services drove over the line causing the line to break. A backhoe was on site and able to isolate the impacted area quickly.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was approximately 10’ x 300’ in the roadway. The backhoe scraped up the impacted soil and hauled to an NMOCD approved facility. Souder Miller & Associates completed work in accordance with NMOCD and BLM guidelines.

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:	Expiration Date:
E-mail Address: atrujillo@concho.com	Conditions of Approval:	Attached ☐
Date: April 6, 2015 Phone: 575-748-6940		

* Attach Additional Sheets If Necessary

APPENDIX C
WASTE MANIFEST

APPENDIX D
PHOTO GALLERY

RJ Unit #129 Incident Closure Report
SMA Ref 5B23838 BG1
04/1/15

Spill path on road. Taken on 03/05/15

RJ Unit #129 Incident Closure Report
SMA Ref 5B23838 BG1
04/1/15

Road after remediation action occurred. Taken on 03/31/15