



December 28, 2015

NMOCD District II
Attn. Heather Patterson
1301 W Grand Ave
Artesia, NM 88210

SUBJECT: SOIL REMEDIATION WORK PLAN FOR INCIDENT 2RP-3386 JRS HORZ FEDERAL #1, EDDY COUNTY, NEW MEXICO

Dear Ms. Patterson:

On behalf of COG Operating (COG), Souder Miller & Associates (SMA) is pleased to submit the attached Work Plan summarizing the planned soil remediation of the release site located on the JRS HORZ Federal #1 in Eddy County, New Mexico. The purpose of the work plan is to obtain approval from the New Mexico Oil Conservation Division for remediation of the release that occurred on October 21, 2015.

At the request of COG, SMA responded to assess and delineate the production fluids release associated with the JRS HORZ Federal #1 Oil well location. The release was initially reported to NMOCD by COG Operating on November 4, 2015 and was a result of a Lighting Strike incident. The table below summarizes information regarding the release. Results of the assessment and delineation follow in the attached report.

Table 1: Release information and Site Ranking					
Name	JRS HORZ Federal #1				
Location	Incident Number	API Number	Section, Township, Range		
	2RP-3386	30-015-33066	SW/NE (Unit D)	Section 10	T 26S, R 29E NMPM
Estimated Date of Release	October 21, 2015				
Date Reported to NMOCD	November 4, 2015				
Reported by	Amanda Trujillo Davis				
Land Owner	Bureau of Land Management (BLM)				
Reported To	NM Oil Conservation Division (NMOCD)				
Source of Release	Lighting Strike				
Released Material	Produced Water and Oil				
Released Volume	1310 bbls Produced Water and 44 bbls Oil				
Recovered Volume	200 bbls Produced Water and 40 bbls Oil				
Net Release	1110 bbl Produced Water and 4 bbl Oil				
Nearest Waterway	1,800 feet north of the location.				

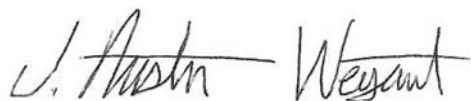


Depth to Groundwater	Estimated to be 102 feet
Nearest Domestic Water Source	Greater than 1000 feet
NMOCD Ranking	0
SMA Response Dates	Initial: 12/16/15 Mitigation Activities: Unknown
Subcontractors	TCS, MMX
Disposal Facility	Texas permitted R360 Red Bluff facility in Texas
Estimated Yd ³ Contaminated Soil Excavated and Disposed	1,400 yd ³

A copy of the C-141 Initial is located in Appendix B. For questions or comments pertaining to the release or the attached Work Plan, please feel free to contact either of us.

Submitted by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist

Reviewed by:



Cynthia Gray, CHMM
Senior Scientist



SOIL REMEDIATION WORK PLAN FOR INCIDENT 2RP-3386

COG OPERATING LLC

JRS HORZ FEDERAL #1

API# 30-015-33066

SECTION 10, T26S R29E, NMPM

EDDY COUNTY, NM



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

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

December 28, 2015
SMA Reference
5B23978 BG13



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Table 1: Release Information and Site Ranking

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1.0 Introduction

On behalf of COG Operating LLC (COG), SMA has prepared this report that describes the assessment and initial delineation of a release associated with the JRS HORZ FEDERAL #1 Oil release site. The site is located in Section 1, T 26S, R 29 E NMPM, Eddy County, New Mexico, on land owned by the Bureau of Land Management (BLM). Figure 1 illustrates the vicinity and location of the site.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 1.2 miles (> 1,000 feet) east of Pecos River, on federal BLM Land with an elevation of approximately 2,970 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs) using the Pecos River as groundwater level. Figure 1 depicts the site vicinity and Figure 2 depicts the site details and sample locations.

SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. No well is located within a 1000 foot radius of the site. Figure 1 depicts the site vicinity and Figure 2 shows the site itself. The physical location of this release is within the jurisdiction of NMOCD.

This release location has been assigned a NMOCD ranking of 0 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 5000 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates site ranking rationale.

3.0 Assessment and Initial Results

On December 16, 2015, after receiving 811 clearance, SMA field personnel assessed the release area onsite with a auger, a Photo Ionization Detector (PID), and a mobile chlorides titration kit. The affected area was found to be 130 feet long and 40 feet wide on the well pad. The spill moved north off of pad in to the draw for 1,580 feet long and less than a foot wide. The area north of pad and draw there is a pipeline right-of-way where no sampling occurred due to safety concerns. Delineation samples were taken to depths of 16 feet bgs on pad and 3 foot bgs in draw. Samples results displayed in Table 2 shows that the contaminated soil are within 2 feet bgs on the pad. The draw area shows elevated chloride levels on surface. Samples taken in pad area at 4 foot bgs found to exhibit background levels of chloride. The draw area samples at 2.5 foot bgs found to exhibit background levels of chloride. Sample locations are noted on Figure 2 Site Details and Sample Location Map. 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.

4.0 Soil Remediation Work Plan

SMA will begin the excavation of affected soils in and around the locations pad, with approval from area utilities owners via 811 and NMOCD. SMA will continuously guide the excavation activities by collecting composite soil samples for field screening with a mobile titration unit

(EPA 4500) and a calibrated PID. Excavation will occur on pad and off pad. No excavation will occur due to safety concerns in the area north of the well pad and draw where the pipeline right-of-way exists. Excavation will occur to depths to sufficient to delineate the plume by NMOCD Division 1 standards. Final samples will be collected at final depth of excavation. Approximately 1,400 cubic yards of contaminated soil will be removed and replaced with clean backfill material to bring the contours to surface grade. The contaminated soil will be transported for proper disposal at Texas permitted R360 Red Bluff facility in Texas.

SMA will attempt to delineate the rest of the affected draw not accomplished on the December 16, 2015 assessment to gain a more complete picture of the extent on the chloride impact. As of 1/11/15 the draw is too saturated with precipitation to allow for ATV access.

5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 0: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 5000 ppm TPH. The release consisted of produced and associated petroleum found during the initial assessment and delineation.

After the soil remediation work plan is approved by NMOCD, SMA will begin soil remediation activities on site.

Soil contaminant concentrations found during the initial delineation are illustrated in Figure 2. A summary of the laboratory analyses is included in Table 2. Laboratory reports are included in Appendix A.

6.0 Closure and Limitations

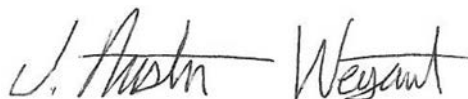
The scope of our services consisted of the performance of a preliminary spill assessment, verification of release stabilization, regulatory liaison, and preparation of this Remediation Work Plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Cindy Gray at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist



Cynthia Gray, CHMM
Senior Scientist

Figures:

Figure 1: Vicinity Map

Figure 2: Site Details and Sample Locations Map

Tables:

Table 1: Release Information and Site Ranking

Table 2: Summary of Laboratory Analyses

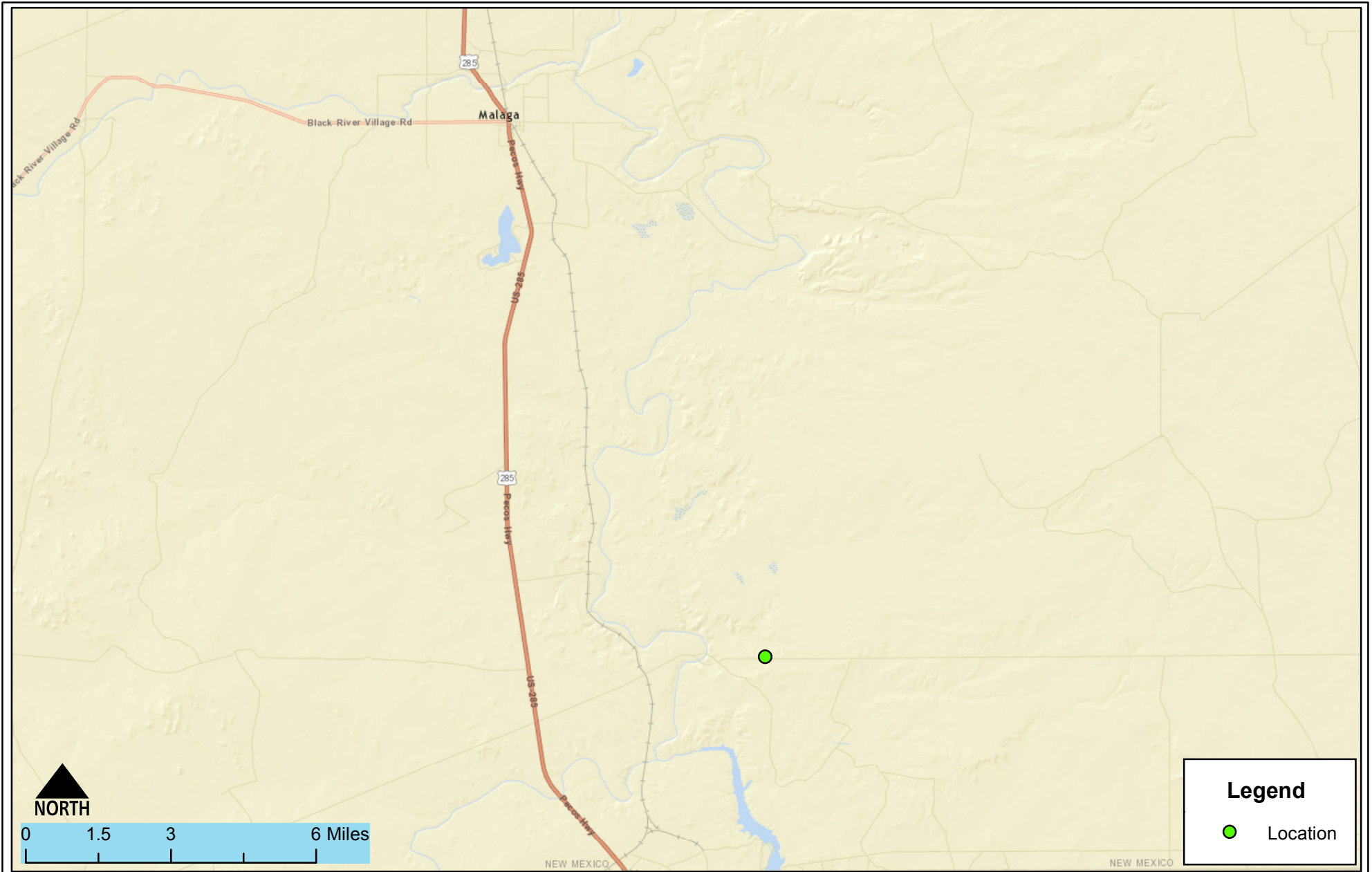
Appendices:

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Initial

FIGURE 1

VICINITY MAP



Vicinity Map
COG-JRS HORZ Federal #1
Malaga, New Mexico

Figure 1

Date Saved:
11/25/2015

By:	Date:	Revisions	Descr:
By: _____	Date: _____		
Copyright 2015 Souder, Miller & Associates - All Rights Reserved			

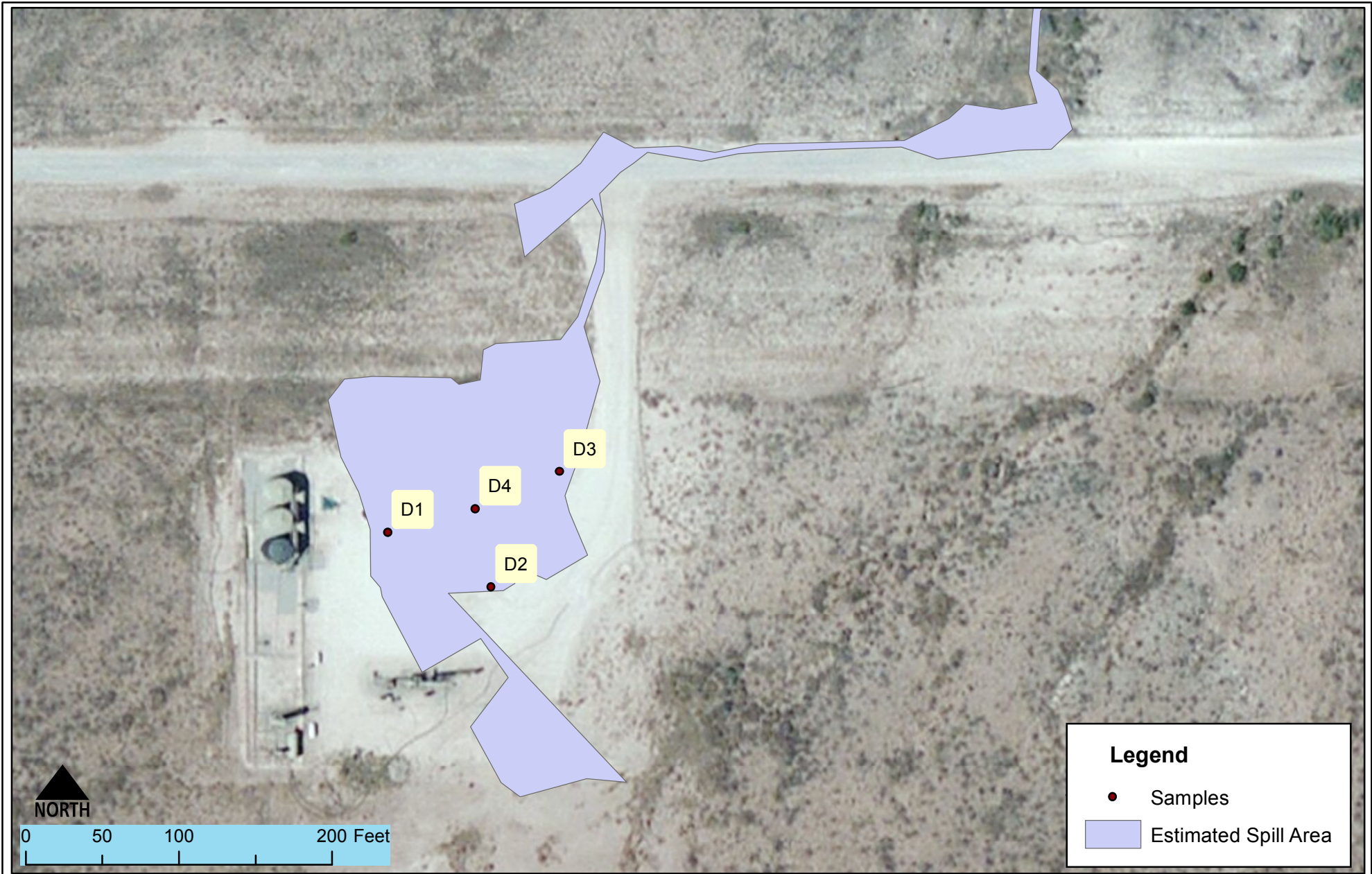
Drawn	Lucas Middleton
Checked	_____
Approved	_____



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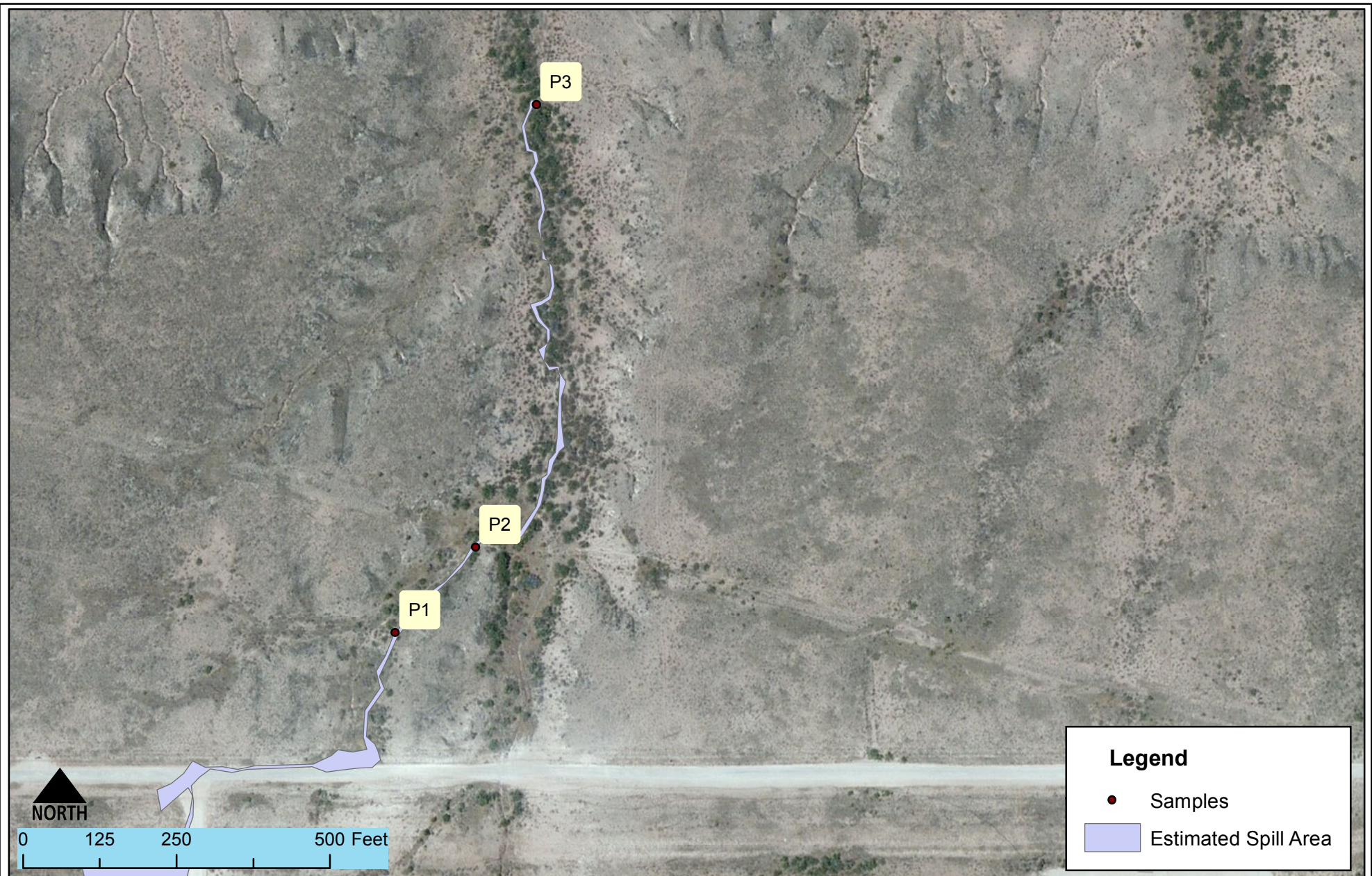
FIGURE 2

SITE DETAILS AND SAMPLE LOCATIONS MAP



Site Detail and Sample Locations
COG- JRS HORZ Federal #1
Malaga, New Mexico

Figure 2



Site Detail and Sample Locations
 COG- JRS HORZ Federal #1
 Malaga, New Mexico

Figure 2

Date Saved: 1/6/2016	By: _____	Date: _____	Revisions	Descr: _____
	By: _____	Date: _____		Descr: _____
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Drawn	Lucas Middleton
Checked	_____
Approved	_____



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TABLE 1

RELEASE INFORMATION AND SITE RANKING

Enterprise Products
Table 2: Site Ranking

Santa Rosa 8 #2
Pipeline Release
1/5/2015

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20		USGS Topo Maps; Google Earth Elevation Difference from the site and the bobcat draw wash to the west	Pecos River is 1.4 miles to the west of the location. ; Site elevation is approximately 102 feet above Pecos River
50' to 99' = 10			
>100' = 0	0		
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20		USGS Topo Maps; Google Earth ; PRCC Mapping Tool	Pecos River is located approximately 1.4 miles to the west release
200' - 1000' = 10			
>1000' = 0	0		
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
<1000' from a water source? <200' from a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0		NM State Engineer Water Well Database	nearest well over 3,000 meter use Pecos River for water depth
	0		
Total Site Ranking	0		
Soil Remedation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM



TABLE 2

SUMMARY OF LABORATORY ANALYSES

Table 2: Summary of Laboratory Analyses

Analytical Report- 1512A57	Sample Number on Figure 2 Map	Sample Date	Depth	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl- mg/Kg
1512A57-001	D3-16	12/16/2015	16'	N/A	N/A	N/A	N/A	180
1512A57-002	D3-12	12/16/2015	12'	N/A	N/A	N/A	N/A	210
1512A57-003	D3-6	12/16/2015	6'	N/A	N/A	N/A	N/A	80
1512A57-004	D3-4	12/16/2015	4'	N/A	N/A	N/A	N/A	440
1512A57-005	D4-2	12/16/2015	2'	N/A	N/A	N/A	N/A	1,100
1512A57-006	D4-4	12/16/2015	4'	N/A	N/A	N/A	N/A	BDL

Table 2: Summary of Field Screening Results

JR Horz Federal #1
Produced Water
12/16/2015

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	Chlorides Results	Lab Sample Collected Y/N
12/16/2015	11:00	P1-S	SURFACE	7,712	y
12/16/2015	11:00	P1-1	1'	1,290	y
12/16/2015	11:00	P1-3	3'	717	y
12/16/2015	11:00	P2-S	SURFACE	5,619	y
12/16/2015	11:00	P2-1	1'	488	y
12/16/2015	11:00	P2-3	3'	244	y
12/16/2015	11:00	P-3	SURFACE	11,180	y

*BDL= Below Detectable Level



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

November 23, 2015

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

RE: J.R. HORZ

OrderNo.: 1511524

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/12/2015 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 qualifiers 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511524

Date Reported: 11/23/2015

CLIENT: Souder, Miller & Associates

Client Sample ID: L3-S

Project: J.R. HORZ

Collection Date: 11/9/2015 1:00:00 PM

Lab ID: 1511524-001

Matrix: SOIL

Received Date: 11/12/2015 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	25000	1500		mg/Kg	1E	11/18/2015 4:35:15 PM	22381
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	11/13/2015 10:22:07 PM	22313
Toluene	ND	0.050		mg/Kg	1	11/13/2015 10:22:07 PM	22313
Ethylbenzene	ND	0.050		mg/Kg	1	11/13/2015 10:22:07 PM	22313
Xylenes, Total	ND	0.10		mg/Kg	1	11/13/2015 10:22:07 PM	22313
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	11/13/2015 10:22:07 PM	22313

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	Page 1 of 8
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511524

Date Reported: 11/23/2015

CLIENT: Souder, Miller & Associates

Client Sample ID: L1-S

Project: J.R. HORZ

Collection Date: 11/9/2015 1:00:00 PM

Lab ID: 1511524-002

Matrix: SOIL

Received Date: 11/12/2015 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	35000	1500		mg/Kg	1E	11/18/2015 4:47:39 PM	22381
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/13/2015 11:39:44 AM	22317
Surr: DNOP	101	70-130		%REC	1	11/13/2015 11:39:44 AM	22317
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/13/2015 10:45:32 PM	22313
Surr: BFB	84.6	75.4-113		%REC	1	11/13/2015 10:45:32 PM	22313

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	Page 2 of 8
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511524

Date Reported: 11/23/2015

CLIENT: Souder, Miller & Associates

Client Sample ID: L2-S

Project: J.R. HORZ

Collection Date: 11/9/2015 1:00:00 PM

Lab ID: 1511524-003

Matrix: SOIL

Received Date: 11/12/2015 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst: LGT		
Chloride	14000	750		mg/Kg	500	11/18/2015 5:00:04 PM	22381
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.049		mg/Kg	1	11/13/2015 11:08:49 PM	22313
Toluene	ND	0.049		mg/Kg	1	11/13/2015 11:08:49 PM	22313
Ethylbenzene	ND	0.049		mg/Kg	1	11/13/2015 11:08:49 PM	22313
Xylenes, Total	ND	0.098		mg/Kg	1	11/13/2015 11:08:49 PM	22313
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	11/13/2015 11:08:49 PM	22313

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	Page 3 of 8
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1511524**

Date Reported: **11/23/2015**

CLIENT: Souder, Miller & Associates

Client Sample ID: BG-1

Project: J.R. HORZ

Collection Date: 11/9/2015 1:00:00 PM

Lab ID: 1511524-004

Matrix: SOIL

Received Date: 11/12/2015 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	11/17/2015 2:02:41 PM	22381

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	Page 4 of 8
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511524

23-Nov-15

Client: Souder, Miller & Associates

Project: J.R. HORZ

Sample ID	MB-22381		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 22381		RunNo: 30303					
Prep Date:	11/17/2015		Analysis Date: 11/17/2015		SeqNo: 924530		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22381		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 22381		RunNo: 30303					
Prep Date:	11/17/2015		Analysis Date: 11/17/2015		SeqNo: 924531		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511524

23-Nov-15

Client: Souder, Miller & Associates

Project: J.R. HORZ

Sample ID	MB-22317		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 22317		RunNo: 30214					
Prep Date:	11/12/2015		Analysis Date: 11/13/2015		SeqNo: 920806		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.8		10.00		78.4	70	130			

Sample ID	LCS-22317		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 22317		RunNo: 30214					
Prep Date:	11/12/2015		Analysis Date: 11/13/2015		SeqNo: 921043		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.2	57.4	139			
Surr: DNOP	3.6		5.000		71.8	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511524

23-Nov-15

Client: Souder, Miller & Associates

Project: J.R. HORZ

Sample ID	MB-22313		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 22313		RunNo: 30224					
Prep Date:	11/12/2015		Analysis Date: 11/13/2015		SeqNo: 921636		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	830		1000		82.5	75.4	113			

Sample ID	LCS-22313		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 22313		RunNo: 30224					
Prep Date:	11/12/2015		Analysis Date: 11/13/2015		SeqNo: 921637		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	80.8	79.6	122			
Surr: BFB	930		1000		92.7	75.4	113			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511524

23-Nov-15

Client: Souder, Miller & Associates

Project: J.R. HORZ

Sample ID	MB-22313		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 22313		RunNo: 30224					
Prep Date:	11/12/2015		Analysis Date: 11/13/2015		SeqNo: 921692		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	1.0		1.000		104	80	120			

Sample ID	LCS-22313		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 22313		RunNo: 30224					
Prep Date:	11/12/2015		Analysis Date: 11/13/2015		SeqNo: 921693		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.050	1.000	0	81.2	80	120			
Toluene	0.82	0.050	1.000	0	81.9	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit



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: 1511524

RcptNo: 1

Received by/date: JA 11/12/15

Logged By: Ashley Gallegos

11/12/2015 9:10:00 AM

Completed By: Ashley Gallegos

11/12/2015 9:55:06 AM

Reviewed By: IO 11/12/15

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 $>0^{\circ}\text{C}$ 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?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

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?

Yes ☒

No ☐

(If no, notify customer for authorization.)

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	2.8	Good	Yes			



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

January 04, 2016

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

RE: J.R. HORZ

OrderNo.: 1512A57

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/22/2015 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 qualifiers 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1512A57

Date Reported: 1/4/2016

CLIENT: Souder, Miller & Associates
Project: J.R. HORZ

Lab Order: 1512A57

Lab ID: 1512A57-001 **Collection Date:** 12/16/2015 8:30:00 AM
Client Sample ID: D3-16 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	180	30		mg/Kg	20	12/30/2015 11:29:48 AM	23002

Lab ID: 1512A57-002 **Collection Date:** 12/16/2015 8:30:00 AM
Client Sample ID: D3-12 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	210	30		mg/Kg	20	12/30/2015 12:31:51 PM	23002

Lab ID: 1512A57-003 **Collection Date:** 12/16/2015 8:30:00 AM
Client Sample ID: D3-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	80	30		mg/Kg	20	12/30/2015 12:44:15 PM	23002

Lab ID: 1512A57-004 **Collection Date:** 12/16/2015 8:30:00 AM
Client Sample ID: D3-4 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	440	30		mg/Kg	20	12/30/2015 12:56:40 PM	23002

Lab ID: 1512A57-005 **Collection Date:** 12/16/2015 8:30:00 AM
Client Sample ID: D4-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	1100	30		mg/Kg	20	12/30/2015 1:09:04 PM	23002

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1512A57

Date Reported: 1/4/2016

CLIENT: Souder, Miller & Associates
Project: J.R. HORZ

Lab Order: 1512A57

Lab ID: 1512A57-006

Collection Date: 12/16/2015 8:30:00 AM

Client Sample ID: D4-4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	12/30/2015 1:21:29 PM	23002

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512A57

04-Jan-16

Client: Souder, Miller & Associates

Project: J.R. HORZ

Sample ID	MB-23002		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 23002		RunNo: 31168					
Prep Date:	12/29/2015		Analysis Date: 12/30/2015		SeqNo: 954140		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-23002		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 23002		RunNo: 31168					
Prep Date:	12/29/2015		Analysis Date: 12/30/2015		SeqNo: 954141		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit



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: 1512A57

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

12/22/2015 9:25:00 AM

Completed By: Ashley Gallegos

12/23/2015 9:03:19 AM

Reviewed By:

IO

12/23/15

Chain of Custody

1. Custody seals intact on sample bottles?
2. Is Chain of Custody complete?
3. How was the sample delivered?

Yes ☐

No ☐

Not Present ☒

Yes ☒

No ☐

Not Present ☐

Courier

Log In

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

Yes ☒

No ☐

NA ☐

Yes ☒

No ☐

NA ☐

Yes ☒

No ☐

Yes ☒

No ☐

Yes ☒

No ☐

Yes ☐

No ☒

NA ☐

Yes ☐

No ☐

No VOA Vials ☒

Yes ☐

No ☒

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Yes ☒

No ☐

Yes ☒

No ☐

Yes ☒

No ☐

Yes ☒

No ☐

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Yes			

Chain-of-Custody Record

Client:

File

Mailing Address:

HAUGEN, CASSIA

Phone #: 609-7240

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)☒ Standard

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Date	Time	Matrix	Sample Request ID
------	------	--------	-------------------

Time Matrix

12/14	820	502	D3-6
-------	-----	-----	------

17/11	8:30	45-50	D3-12
-------	------	-------	-------

[illegible]

03-4

04-7

19-5

[illegible][illegible]

Date: _____ Time: _____

Relinquished by:

Date:	Time:
-------	-------

Relinquished by:

Received by:

Date, Time

Received by:

Date _____ Time _____

Remarks:

Griffith 12/22/15 0925

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 analytical report.

APPENDIX B

FORM C141 INITIAL

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

late C-141
Submission
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

NAB1531639135
Name of Company: COG Operating LLC 229137
Address: 600 West Illinois Avenue, Midland TX 79701
Facility Name: JR'S HORZ FEDERAL #001
Surface Owner: Federal
Mineral Owner:
API No. 30-015-33066

OPERATOR
☒ Initial Report ☐ Final Report

Contact: Robert McNeill
Telephone No. 432-230-0077
Facility Type: SWD

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	10	26S	29E	380'	North	330'	West	Eddy

Latitude 32.0632515 Longitude -103.9792099

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 44 bbls Oil ; 1310 bbls PW	Volume Recovered: 240 bbls fluid
Source of Release: Lightning Strike	Date and Hour of Occurrence: 10/21/2015 10:00 pm	Date and Hour of Discovery: 10/21/2015 10:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - NMOCD / Jim Amos - BLM	
By Whom? Amanda Trujillo Davis	Date and Hour: Fri 10/23/2015 4:05 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 11 2015

RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
This release was caused by a lightning strike. Once the fire was extinguished, vacuum trucks were dispatched to recover all standing fluid.

Describe Area Affected and Cleanup Action Taken.*
This release was not contained on location. 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:	OIL CONSERVATION DIVISION	
Printed Name: Amanda Trujillo Davis	Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator	Approval Date: 11/12/15	Expiration Date: N/A
E-mail Address: atrujillo@concho.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 12/12/15	
Date: 11/4/2015 Phone: 575-748-6940		

* Attach Additional Sheets If Necessary

2RP-3386

Patterson, Heather, EMNRD

From: Amanda Trujillo Davis <ATrujillo@concho.com>
Sent: Wednesday, November 11, 2015 6:38 PM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD; James_Amos@blm.gov; Shelly Tucker
Cc: Austin Weyant; Lucas Middleton
Subject: (C-141 Initial) JR's Horz Federal #1 SWD (30-015-33066)
Attachments: 10-22-2015 JRs Horz Federal #1 SWD (TB) Initial.pdf

Mr. Bratcher,

Attached is a C-141 for your consideration. Souder, Miller and Associates will be addressing this release on our behalf. Please feel to contact me if you have any additional questions or concerns.

Thank you,

Amanda Trujillo Davis

Senior Environmental Coordinator
COG Operating LLC
Cell: 505.350.1336
Office: 575.748.6930
atrujillo@concho.com

1401 Commerce Drive
Carlsbad, NM 88220



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From: Amanda Trujillo Davis
Sent: Friday, October 23, 2015 4:05 PM
To: Heather Patterson; Mike.Bratcher@state.nm.us; James_Amos@blm.gov; Shelly Tucker
Subject: (Notification) JR's Horz Federal #1 SWD (30-015-33066)

Mr. Bratcher,

COG Operating LLC is reporting a release on the JR's Horz Federal #1 SWD (30-015-33066).
Unit D Section 10, Township 26S Range 29E
The release occurred at 9:40 pm on 10/21/2015
Released: 44 bbls Oil ; 1,360 bbls PW
Recovered: In Progress

The release was caused by a lightning strike resulting in a fire at the facility. The area is being evaluated and a C-141 will be submitted. If you have any additional questions please feel free to contact me.

Thank you,

Lupe Carrasco

Environmental Coordinator

Concho Resources

Cell: 575-725-0787

Office: 575-748-6933

gcarrasco@concho.com

2407 Pecos Ave.

Artesia , NM 88210



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Patterson, Heather, EMNRD

From: Amanda Trujillo Davis <ATrujillo@concho.com>
Sent: Friday, October 23, 2015 4:05 PM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD; James_Amos@blm.gov; Shelly Tucker
Subject: (Notification) JR's Horz Federal #1 SWD (30-015-33066)

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Unit D Section 10, Township 26S Range 29E
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Released: 44 bbls Oil ; 1,360 bbls PW
Recovered: In Progress

The release was caused by a lightning strike resulting in a fire at the facility. The area is being evaluated and a C-141 will be submitted. If you have any additional questions please feel free to contact me.

Thank you,

Lupe Carrasco

Environmental Coordinator
Concho Resources
Cell: 575-725-0787
Office: 575-748-6933
gcarrasco@concho.com

2407 Pecos Ave.
Artesia , NM 88210



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