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By Kellie Jones at 3:18 pm, Nov 10, 2015

APPROVED

By Kellie Jones at 3:18 pm, Nov 10, 2015

September 22, 2015

#5B23978-BG1

NMOCD District I 1625 N. French Drive Hobbs, New Mexico 88240

SUBJECT: FINAL CLOSURE REPORT FOR INCIDENT 1RP-3521 PINTAIL 3 FEDERAL SWD #1, LEA COUNTY, NEW MEXICO

Dear Ms. Jones:

Souder Miller & Associates is pleased to submit the attached Final Closure Report of the remediation of the release site located on the Pintail 3 Federal SWD #1 in Lea County, New Mexico. The purpose of the Final Report is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the closure of the release that occurred on Bureau of Land Management property on January 17, 2015.

Souder, Miller & Associates (SMA) responded at the request of COG Operating to assess and delineate the release of production fluids associated with the Pintail 3 Federal SWD #1 well location. The release was initially reported to NMOCD by COG Operating on February 2, 2015, and was a result of a flow line failure. The table below summarizes information regarding the release. Results of the assessment, delineation, and remedial activities follow in the attached closure report.

Table 1: Release information and Site Ranking									
Name		Pintail 3 Federal SWD #1							
	Incident Number	, Township	, Range						
Location	1RP- 3521	30-025- 41208	SW/NE (Unit J)	Section 3	T 26S, R 32E NMPM				
Estimated Date of Release	January 1	7, 2015							
Date Reported to NMOCD	February 2, 2015								
Reported by	Amanda Trujillo, COG Operating LLC								
Land Owner	Federal (E	Bureau of L	and Manag	gement)					
Reported To	NM Oil Conservation Division (NMOCD)								
Source of Release	Illegal dumping								
Released Material	Produced	Water							



Released Volume	125 bbls Produced Water					
Recovered Volume	0 bbls Produced Water					
Net Release	125 bbls Produced Water					
Nearest Waterway	Bobcat Draw is 0.28 miles to the south of the location.					
Depth to Groundwater	Estimated to be 150 feet					
Nearest Domestic Water Source	Greater than 1,000 feet					
NMOCD Ranking	0					
SMA Response Dates	Initial: May 11, 2015 Mitigation Activities: 8/13/15-8/14/15					
Subcontractors	TCS					
Disposal Facility	Lea Land, LLC					
Estimated Yd ³ Contaminated Soil Excavated and Disposed	30					

Attached is a copy of the C-141 final, located in Appendix B. For questions or comments pertaining to the release or the attached Closure Report please feel free to contact either of us.

Submitted by: Reviewed by:

SOUDER, MILLER & ASSOCIATES

Austin Weyant Cynthia Gray, CHMM Project Scientist Senior Scientist

FINAL CLOSURE REPORT FOR INCIDENT 1RP-3521

COG OPERATING LLC

PINTAIL 3 FEDERAL SWD #1 API# 30-025-41208 SECTION 3, T26S R32E, NMPM LEA 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

September 22, 2015 SMA Reference 5B23978 BG1

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1.0 Introduction

On behalf of COG Operating LLC (COG), SMA has prepared this report that describes the assessment, initial delineation, and mitigation of a release associated with the Pintail 3 Federal SWD #1 release site. The site is located in Section 3, T 26S, R 32 E, NMPM, Lea 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 0.3 miles (> 1,000 feet) north of Bobcat Draw, in an area owned by BLM with an elevation of approximately 3,000 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 150 feet below ground surface (bgs). 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, ethylbenzene, and total xylenes (BTEX), and 5000 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates site ranking rationale.

3.0 Assessment and Initial Results

On August 13th, 2015, after receiving 811 clearance, SMA field personnel assessed the release area onsite with a backhoe, a Photo Ionization Detector (PID), and a mobile chlorides titration kit. The affected area was found to be 70 feet long and 30 feet wide. Delineation samples were taken to depths of three feet bgs. Using field screening, samples at one foot bgs were found to exhibit only background levels of all contaminants of concern. For additional information on the initial soil results and site assessment, please refer to the NMOCD approved work plan (Soil Remediation Work Plan for Incident 1RP-3521.) 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 Summary

SMA began the excavation of affected soils on 8/13/15, with approval from area utilities owners via 811 and NMOCD. SMA continuously guided the excavation activities by collecting composite soil samples for field screening with a mobile chlorides titration unit (EPA 4500) and a calibrated PID. Delineation was performed to a depth of 3 feet bgs to delineate the plume by NMOCD Division 1 standards. Excavation occurred to a depth of one foot bgs, a depth sufficient to remove the contaminated soil. Final discrete closure samples were collected within the excavation. Approximately 50 cubic yards of contaminated soil was removed and replaced with clean backfill material to bring the contours to surface grade. The contaminated soil was transported for proper disposal at Lea Land, near Carlsbad, NM.

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 water and associated petroleum found during the initial assessment and delineation.

Laboratory analytical results for all final closure samples collected were below NMOCD action levels for Benzene, BTEX, and TPH as well as below laboratory detection limits for the methods used. Chlorides are below 1,000 ppm as requested by NMOCD Division 1. No further remedial activities are recommended.

All closure confirmation samples were taken as discrete samples to ensure that the contaminated soil was removed.

Soil contaminant concentrations are illustrated in Figure 2. A summary of laboratory analytical results 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, preparation of a Remediation Workplan, oversight of remediation activities, collection of closure confirmation samples and preparation of this Closure Report. 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:

SOUDER, MILLER & ASSOCIATES

Austin Weyant Project Scientist

Cynthia Gray, CHMM Senior Scientist

Reviewed by:

Figures:

Figure 1: Vicinity Map

Figure 2: Detailed Site and Sample 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 Final Appendix C: Photo Gallery

FIGURE 1 VICINITY MAP

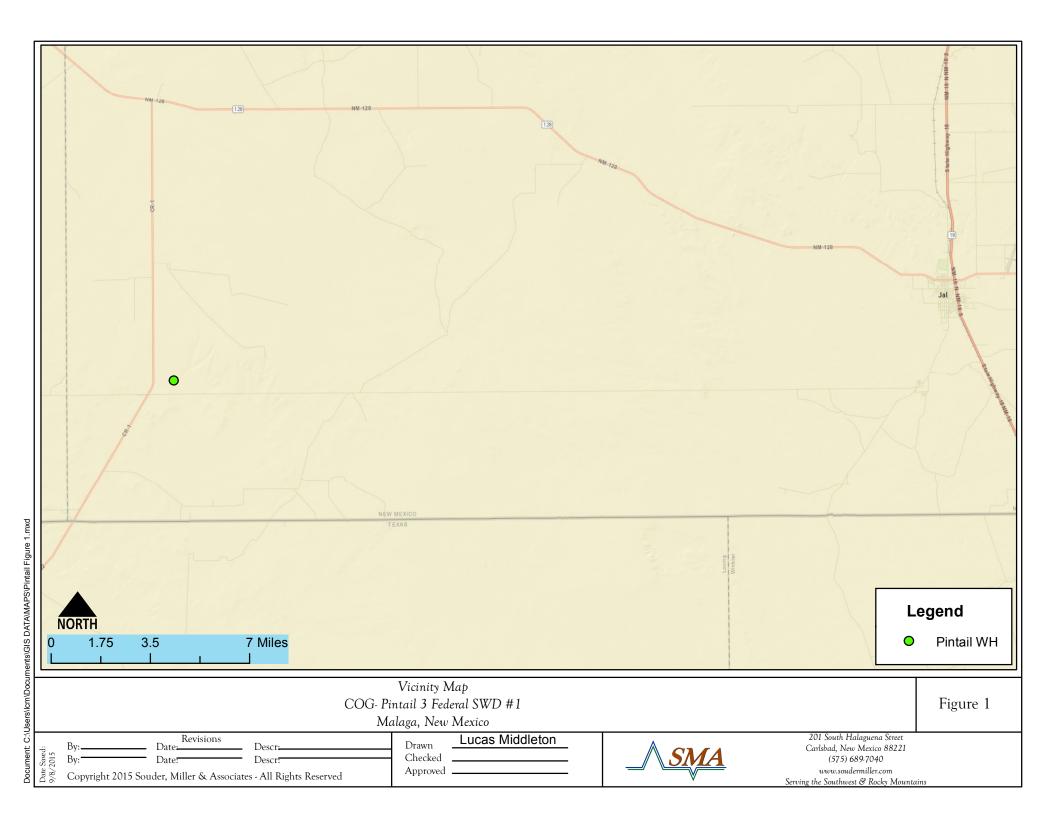


FIGURE 2 DETAILED SITE AND SAMPLE MAP



COG-Pintail 3 Federal SWD #1 Malaga, New Mexico

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

Lucas Middleton Drawn Checked Approved



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

TABLE 1 RELEASE INFORMATION AND SITE RANKING

Table 1: Release information and Site Ranking									
Name		Pintail	3 Federal S	WD #1					
	Incident Number	API Number	Section	n, Township,	, Range				
Location	1RP-3521	30-025- 41208	SW/NE (Unit J)	Section 3	T 26S, R 32E NMPM				
Estimated Date of Release	January 17	2015							
Date Reported to NMOCD	February 2	2015							
Reported by	Amanda Tr	ujillo, COG (Operating L	LC					
Land Owner	Federal								
Reported To	NM Oil Conservation Division (NMOCD)								
Source of Release	Illegal dum	ping							
Released Material	Produced Water								
Released Volume	125 bbls Pr	oduced Wa	ter						
Recovered Volume	0 bbls Prod	duced Wate	r						
Net Release	125 bbls Pr	oduced Wa	ter						
Nearest Waterway	Bobcat Dra	w is 0.28 m	iles to the s	outh of the	location.				
Depth to Groundwater		to be 150 fe							
Nearest Domestic Water Source	Greater tha	an 1,000 fee	t						
NMOCD Ranking	0								
SMA Response Dates	Initial: May	11, 2015 N	∕litigation A	ctivities: Ur	nknown				
Subcontractors	TCS								
Disposal Facility	Lea Land, L	LC							
Estimated Yd ³ Contaminated Soil Excavated and Disposed	30								

TABLE 2 SUMMARY OF LABORATORY ANALYSES

Table 2: Summary of Laboratory Analyses

Analytical Report- 1507652/ 1508863	Sample Number on Figure 2 Map	Sample Date	Depth	BTEX ppm	Benzene mg/Kg	TPH mg/Kg	CI- mg/Kg
1507652- 001	SP1	7/8/2015	Surface	BDL	BDL	320	150
1507652- 002	SP2	7/8/2015	Surface	BDL	BDL	390	450
1507652- 003	SP3	7/8/2015	Surface	BDL	BDL	8100	4,200
1507652- 004	SP4	7/8/2015	Surface	N/A	N/A	N/A	1,400
1508863- 001	PT1-1	8/13/2015	1'	BDL	BDL	BDL	140
1508863- 002	PT1-2	8/13/2015	2'	BDL	BDL	BDL	BDL
1508863- 003	PT1-3	8/13/2015	3'	BDL	BDL	BDL	BDL
1508863- 004	PT2-1	8/13/2015	1'	BDL	BDL	BDL	430
1508863- 005	PT2-2	8/13/2015	2'	BDL	BDL	BDL	52
1508863- 006	PT2-3	8/13/2015	3'	BDL	BDL	BDL	BDL

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

July 27, 2015

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

FAX

RE: Pintail OrderNo.: 1507652

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/15/2015 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1507652**Date Reported: **7/27/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SP1

 Project:
 Printail
 Collection Date: 7/8/2015 10:00:00 AM

 Lab ID:
 1507652-001
 Matrix: SOIL
 Received Date: 7/15/2015 9:13:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analy	st: KJH
Petroleum Hydrocarbons, TR	320	20	mg/Kg	1	7/17/2015	20290
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	150	30	mg/Kg	20	7/20/2015 1:29:30 PM	20336
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	7/17/2015 10:56:48 A	M 20283
Benzene	ND	0.049	mg/Kg	1	7/17/2015 10:56:48 A	M 20283
Toluene	ND	0.049	mg/Kg	1	7/17/2015 10:56:48 A	M 20283
Ethylbenzene	ND	0.049	mg/Kg	1	7/17/2015 10:56:48 A	M 20283
Xylenes, Total	ND	0.099	mg/Kg	1	7/17/2015 10:56:48 A	M 20283
Surr: 4-Bromofluorobenzene	98.9	80-120	%REC	1	7/17/2015 10:56:48 A	M 20283

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

- * 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 Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507652**Date Reported: **7/27/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SP2

 Project:
 Pintail
 Collection Date: 7/8/2015 10:00:00 AM

 Lab ID:
 1507652-002
 Matrix: SOIL
 Received Date: 7/15/2015 9:13:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	: KJH
Petroleum Hydrocarbons, TR	390	19	mg/Kg	1	7/17/2015	20290
EPA METHOD 300.0: ANIONS					Analyst	:: LGT
Chloride	450	30	mg/Kg	20	7/20/2015 2:06:44 PM	20336
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	7/17/2015 4:13:20 PM	20283
Benzene	ND	0.049	mg/Kg	1	7/17/2015 4:13:20 PM	20283
Toluene	ND	0.049	mg/Kg	1	7/17/2015 4:13:20 PM	20283
Ethylbenzene	ND	0.049	mg/Kg	1	7/17/2015 4:13:20 PM	20283
Xylenes, Total	ND	0.097	mg/Kg	1	7/17/2015 4:13:20 PM	20283
Surr: 4-Bromofluorobenzene	95.9	80-120	%REC	1	7/17/2015 4:13:20 PM	20283

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

- * 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 Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1507652**

Date Reported: 7/27/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SP3

 Project:
 Pintail
 Collection Date: 7/8/2015 10:00:00 AM

 Lab ID:
 1507652-003
 Matrix: SOIL
 Received Date: 7/15/2015 9:13:00 AM

Analyses	Result	RL Qu	al Units	DF	Batch	
EPA METHOD 418.1: TPH					Analyst	: KJH
Petroleum Hydrocarbons, TR	8100	190	mg/Kg	10	7/17/2015	20290
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	4200	150	mg/Kg	100	7/21/2015 10:40:49 AM	20336
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	7/17/2015 4:42:05 PM	20283
Benzene	ND	0.047	mg/Kg	1	7/17/2015 4:42:05 PM	20283
Toluene	ND	0.047	mg/Kg	1	7/17/2015 4:42:05 PM	20283
Ethylbenzene	ND	0.047	mg/Kg	1	7/17/2015 4:42:05 PM	20283
Xylenes, Total	ND	0.095	mg/Kg	1	7/17/2015 4:42:05 PM	20283
Surr: 4-Bromofluorobenzene	96.7	80-120	%REC	1	7/17/2015 4:42:05 PM	20283

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

- * 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 Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1507652

Date Reported: 7/27/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SP4

 Project:
 Pintail
 Collection Date: 7/8/2015 10:00:00 AM

 Lab ID:
 1507652-004
 Matrix: SOIL
 Received Date: 7/15/2015 9:13:00 AM

Analyses	Result	RL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: LGT
Chloride	1400	75	mg/Kg	50 7/21/2015 10:53:14 A	AM 20336

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

- * 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 Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1507652**

27-Jul-15

Client: Souder, Miller & Associates

Project: Pintail

Sample ID MB-20336 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 20336 RunNo: 27627

Prep Date: 7/20/2015 Analysis Date: 7/20/2015 SeqNo: 829641 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-20336 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 20336 RunNo: 27627

Prep Date: 7/20/2015 Analysis Date: 7/20/2015 SeqNo: 829642 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.4 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

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **1507652**

27-Jul-15

Client: Souder, Miller & Associates

Project: Pintail

Sample ID MB-20290 SampType: MBLK TestCode: EPA Method 418.1: TPH

Client ID: PBS Batch ID: 20290 RunNo: 27575

Prep Date: 7/16/2015 Analysis Date: 7/17/2015 SeqNo: 827846 Units: mg/Kg

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

Petroleum Hydrocarbons, TR ND 20

Sample ID LCS-20290 SampType: LCS TestCode: EPA Method 418.1: TPH

Client ID: LCSS Batch ID: 20290 RunNo: 27575

Prep Date: **7/16/2015** Analysis Date: **7/17/2015** SeqNo: **827847** Units: **mg/Kg**

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

Petroleum Hydrocarbons, TR 88 20 100.0 0 87.7 83.6 116

Sample ID LCSD-20290 SampType: LCSD TestCode: EPA Method 418.1: TPH

Client ID: LCSS02 Batch ID: 20290 RunNo: 27575

Prep Date: 7/16/2015 Analysis Date: 7/17/2015 SeqNo: 827848 Units: mg/Kg

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

Petroleum Hydrocarbons, TR 100 20 100.0 0 101 83.6 116 14.3 20

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

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **1507652**

27-Jul-15

Client: Souder, Miller & Associates

Project: Pintail

Sample ID MB-20283 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Client ID: Batch ID: 20283 RunNo: 27583 Prep Date: 7/16/2015 Analysis Date: 7/17/2015 SeqNo: 828181 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 ND 0.050 Benzene Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.98 1.000 98.0 80 120

Sample ID LCS-20283	Samp	SampType: LCS TestCode: EPA Method 8					8021B: Vola	tiles		
Client ID: LCSS	Batc	Batch ID: 20283 RunNo: 27583								
Prep Date: 7/16/2015	Analysis [Date: 7/	17/2015	SeqNo: 828182			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.96	0.10	1.000	0	96.5	69.8	143			
Benzene	1.0	0.050	1.000	0	99.5	76.6	128			
Toluene	0.96	0.050	1.000	0	95.7	75	124			
Ethylbenzene	1.0	0.050	1.000	0	100	79.5	126			
Xylenes, Total	3.0	0.10	3.000	0	101	78.8	124			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID 1507652-001AMS	SampT	SampType: MS TestCode: EPA Method 802						tiles			
Client ID: SP1	Batch	Batch ID: 20283 RunNo: 27583									
Prep Date: 7/16/2015	Analysis D	oate: 7/	17/2015	SeqNo: 828184			Units: mg/K	Jnits: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	0.99	0.098	0.9843	0	100	53.6	133				
Benzene	1.0	0.049	0.9843	0	104	69.6	136				
Toluene	0.99	0.049	0.9843	0	100	76.2	134				
Ethylbenzene	1.0	0.049	0.9843	0	104	75.8	137				
Xylenes, Total	3.1	0.098	2.953	0	105	78.9	133				
Surr: 4-Bromofluorobenzene	1.0		0.9843		104	80	120				

Sample ID 1507652-001AMS	8021B: Volat	iles								
Client ID: SP1 Batch ID: 20283				R	RunNo: 2	7583				
Prep Date: 7/16/2015 Analysis Date: 7/17/2015 SeqNo: 828185 Units: mg/Kg					(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.91	0.099	0.9862	0	92.1	53.6	133	8.53	20	
Benzene	0.97	0.049	0.9862	0	98.7	69.6	136	5.27	20	
Toluene	0.94	0.049	0.9862	0	94.9	76.2	134	5.47	20	
Ethylbenzene	0.98	0.049	0.9862	0	99.5	75.8	137	4.55	20	

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

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **1507652**

27-Jul-15

Client: Souder, Miller & Associates

Project: Pintail

Sample ID 1507652-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **SP1** Batch ID: **20283** RunNo: **27583**

Prep Date: 7/16/2015 Analysis Date: 7/17/2015 SeqNo: 828185 Units: mg/Kg

Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Tot	tal	2.9	0.099	2.959	0	99.6	78.9	133	4.86	20	
Surr: 4-Br	omofluorobenzene	1.0		0.9862		103	80	120	0	0	

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

Page 8 of 8



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

RoptNo: 1 Work Order Number: 1507652 Client Name: SMA-CARLSBAD Received by/date: 7/15/2015 9:13:00 AM Logged By: Lindsay Mangin 7/15/2015 2:09:44 PM Completed By: Lindsay Mangin 19 Reviewed By: Chain of Custody Not Present V No . Yes 1 Custody seals intact on sample bottles? No 🗌 Not Present Yes V 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In NA 🗌 Yes V No _ 4. Was an attempt made to cool the samples? NA 🗌 No . Were all samples received at a temperature of >0° C to 6.0°C No. Yes V Sample(s) in proper container(s)? Yes V Sufficient sample volume for indicated test(s)? No Yes V 8. Are samples (except VOA and ONG) properly preserved? NA No V Yes 9. Was preservative added to bottles? No VOA Vials V No Yes 10.VOA vials have zero headspace? No V Yes 11. Were any sample containers received broken? # of preserved bottles checked Yes V No for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 13. Are matrices correctly identified on Chain of Custody? No Yes 14. Is it clear what analyses were requested? Checked by: No 🗌 Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA V Yes No 16. Was client notified of all discrepancies with this order? Person Notified: Date eMail In Person Via: Phone Fax By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Seal Date Signed By Cooler No | Temp °C | Condition | Seal Intact | Seal No | 1.1 Good Yes

HALL ENVIRONMENTA	ANALYSIS LABORATOR	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	(*0	S'*Od'	(1.8) (H) (H) (808 /	d 41 (V)	EDB (Methors (Methors (Methors (PNA) OPNA) Anions (MC) 8081 Pestic (NO) 8250 (NO)		7	7	7					
			4901 H	Tel. 50		(ƙju	(Gas o	HdT	3E+	BTEX + MTI TPH Methoo		7	7	1				Remarks:	
	Rush						Weyen?	5		Preservative NEAL No.	18-	200-	Soft	1700-	>			Date Time PAR 09/13	
Turn-Around Time:	☐ Standard □	Project Name:	of state	Project #:		Project Manager:			Sample Temperature:	_ #	402	Mon	7017	1800	,			Received by:	1
Chain-of-Custody Record			5 Hilmenen	NA 89220	158.5	bo Goden, illein	(Full Validation)			Sample Request ID	2,1	202	503	5,03					
of-Cus	Souder My lles and			Carly End.	574-6801	Sucas m. ddlobo	П	;	Other	Matrix	5.1	13	1.3	5,7				Relinquished by:	
nain-	Soude		Mailing Address: 201	2				0000	(aux	a L	(55)	+-	1000	1001				Time:	
ີ	Client:		Mailing A		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	□ NELAP	Date	7-25	2-4-6	7-415	ンチー		П		Date:	



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

August 26, 2015

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

FAX

RE: Pintail OrderNo.: 1508863

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/18/2015 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1508863

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/26/2015

CLIENT: Souder, Miller & Associates Client Sample ID: PT1-1

 Project:
 Pintail
 Collection Date: 8/13/2015 3:00:00 PM

 Lab ID:
 1508863-001
 Matrix: SOIL
 Received Date: 8/18/2015 9:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	140	30	mg/Kg	20	8/22/2015 2:07:34 AM	20926
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/24/2015 4:42:22 PM	20909
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/24/2015 4:42:22 PM	20909
Surr: DNOP	89.0	57.9-140	%REC	1	8/24/2015 4:42:22 PM	20909
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/21/2015 8:10:47 PM	20870
Surr: BFB	79.5	75.4-113	%REC	1	8/21/2015 8:10:47 PM	20870
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	8/21/2015 8:10:47 PM	20870
Benzene	ND	0.050	mg/Kg	1	8/21/2015 8:10:47 PM	20870
Toluene	ND	0.050	mg/Kg	1	8/21/2015 8:10:47 PM	20870
Ethylbenzene	ND	0.050	mg/Kg	1	8/21/2015 8:10:47 PM	20870
Xylenes, Total	ND	0.10	mg/Kg	1	8/21/2015 8:10:47 PM	20870
Surr: 4-Bromofluorobenzene	90.1	80-120	%REC	1	8/21/2015 8:10:47 PM	20870

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

- * 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 Page 1 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1508863

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/26/2015

CLIENT: Souder, Miller & Associates Client Sample ID: PT1-2

 Project:
 Pintail
 Collection Date: 8/13/2015 3:00:00 PM

 Lab ID:
 1508863-002
 Matrix: SOIL
 Received Date: 8/18/2015 9:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	8/22/2015 2:19:58 AM	20926
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/24/2015 5:51:02 PM	20909
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/24/2015 5:51:02 PM	20909
Surr: DNOP	85.1	57.9-140	%REC	1	8/24/2015 5:51:02 PM	20909
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/21/2015 8:35:36 PM	20870
Surr: BFB	79.9	75.4-113	%REC	1	8/21/2015 8:35:36 PM	20870
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	8/21/2015 8:35:36 PM	20870
Benzene	ND	0.048	mg/Kg	1	8/21/2015 8:35:36 PM	20870
Toluene	ND	0.048	mg/Kg	1	8/21/2015 8:35:36 PM	20870
Ethylbenzene	ND	0.048	mg/Kg	1	8/21/2015 8:35:36 PM	20870
Xylenes, Total	ND	0.097	mg/Kg	1	8/21/2015 8:35:36 PM	20870
Surr: 4-Bromofluorobenzene	93.0	80-120	%REC	1	8/21/2015 8:35:36 PM	20870

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

- * 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 Page 2 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1508863**Date Reported: **8/26/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: PT1-3

 Project:
 Pintail
 Collection Date: 8/13/2015 3:00:00 PM

 Lab ID:
 1508863-003
 Matrix: SOIL
 Received Date: 8/18/2015 9:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	8/22/2015 2:32:22 AM	20926
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/24/2015 6:12:34 PM	20909
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/24/2015 6:12:34 PM	20909
Surr: DNOP	86.0	57.9-140	%REC	1	8/24/2015 6:12:34 PM	20909
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/21/2015 9:00:22 PM	20870
Surr: BFB	79.0	75.4-113	%REC	1	8/21/2015 9:00:22 PM	20870
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	8/21/2015 9:00:22 PM	20870
Benzene	ND	0.048	mg/Kg	1	8/21/2015 9:00:22 PM	20870
Toluene	ND	0.048	mg/Kg	1	8/21/2015 9:00:22 PM	20870
Ethylbenzene	ND	0.048	mg/Kg	1	8/21/2015 9:00:22 PM	20870
Xylenes, Total	ND	0.097	mg/Kg	1	8/21/2015 9:00:22 PM	20870
Surr: 4-Bromofluorobenzene	92.5	80-120	%REC	1	8/21/2015 9:00:22 PM	20870

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

- * 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 Page 3 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1508863**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/26/2015

CLIENT: Souder, Miller & Associates Client Sample ID: PT2-1

 Project:
 Pintail
 Collection Date: 8/13/2015 3:00:00 PM

 Lab ID:
 1508863-004
 Matrix: SOIL
 Received Date: 8/18/2015 9:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	430	30	mg/Kg	20	8/22/2015 2:44:47 AM	20926
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANIC	S			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/24/2015 6:34:14 PM	20909
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/24/2015 6:34:14 PM	20909
Surr: DNOP	77.1	57.9-140	%REC	1	8/24/2015 6:34:14 PM	20909
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/21/2015 9:25:15 PM	20870
Surr: BFB	79.4	75.4-113	%REC	1	8/21/2015 9:25:15 PM	20870
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	8/21/2015 9:25:15 PM	20870
Benzene	ND	0.048	mg/Kg	1	8/21/2015 9:25:15 PM	20870
Toluene	ND	0.048	mg/Kg	1	8/21/2015 9:25:15 PM	20870
Ethylbenzene	ND	0.048	mg/Kg	1	8/21/2015 9:25:15 PM	20870
Xylenes, Total	ND	0.097	mg/Kg	1	8/21/2015 9:25:15 PM	20870
Surr: 4-Bromofluorobenzene	92.1	80-120	%REC	1	8/21/2015 9:25:15 PM	20870

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

- * 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 Page 4 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1508863**Date Reported: **8/26/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: PT2-2

 Project:
 Pintail
 Collection Date: 8/13/2015 3:00:00 PM

 Lab ID:
 1508863-005
 Matrix: SOIL
 Received Date: 8/18/2015 9:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	52	30	mg/Kg	20	8/22/2015 2:57:12 AM	20926
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/24/2015 6:55:39 PM	20909
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/24/2015 6:55:39 PM	20909
Surr: DNOP	78.7	57.9-140	%REC	1	8/24/2015 6:55:39 PM	20909
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/21/2015 9:50:09 PM	20870
Surr: BFB	80.4	75.4-113	%REC	1	8/21/2015 9:50:09 PM	20870
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	8/21/2015 9:50:09 PM	20870
Benzene	ND	0.048	mg/Kg	1	8/21/2015 9:50:09 PM	20870
Toluene	ND	0.048	mg/Kg	1	8/21/2015 9:50:09 PM	20870
Ethylbenzene	ND	0.048	mg/Kg	1	8/21/2015 9:50:09 PM	20870
Xylenes, Total	ND	0.095	mg/Kg	1	8/21/2015 9:50:09 PM	20870
Surr: 4-Bromofluorobenzene	93.3	80-120	%REC	1	8/21/2015 9:50:09 PM	20870

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

- * 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 Page 5 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1508863**Date Reported: **8/26/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: PT2-3

 Project:
 Pintail
 Collection Date: 8/13/2015 3:00:00 PM

 Lab ID:
 1508863-006
 Matrix: SOIL
 Received Date: 8/18/2015 9:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	8/22/2015 3:09:37 AM	20926
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/24/2015 7:17:13 PM	20909
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/24/2015 7:17:13 PM	20909
Surr: DNOP	81.0	57.9-140	%REC	1	8/24/2015 7:17:13 PM	20909
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/21/2015 10:15:02 PM	20870
Surr: BFB	79.7	75.4-113	%REC	1	8/21/2015 10:15:02 PM	20870
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	8/21/2015 10:15:02 PM	20870
Benzene	ND	0.048	mg/Kg	1	8/21/2015 10:15:02 PM	20870
Toluene	ND	0.048	mg/Kg	1	8/21/2015 10:15:02 PM	20870
Ethylbenzene	ND	0.048	mg/Kg	1	8/21/2015 10:15:02 PM	20870
Xylenes, Total	ND	0.096	mg/Kg	1	8/21/2015 10:15:02 PM	20870
Surr: 4-Bromofluorobenzene	92.8	80-120	%REC	1	8/21/2015 10:15:02 PM	20870

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

- * 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 Page 6 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1508863**

26-Aug-15

Client: Souder, Miller & Associates

Project: Pintail

Sample ID MB-20926 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 20926 RunNo: 28397

Prep Date: **8/21/2015** Analysis Date: **8/21/2015** SeqNo: **857826** Units: **mg/Kg**

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

Chloride ND 1.5

Sample ID LCS-20926 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 20926 RunNo: 28397

Prep Date: 8/21/2015 Analysis Date: 8/21/2015 SeqNo: 857827 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 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

Page 7 of 11

Hall Environmental Analysis Laboratory, Inc.

44

4.1

9.9

49.46

4.946

WO#: **1508863**

26-Aug-15

Client: Souder, Miller & Associates

Project: Pintail

Project: Pintail								
Sample ID MB-20909	SampType: M	BLK	Tes	tCode: EPA Met	thod 8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID: 20	0909	R	RunNo: 28400				
Prep Date: 8/21/2015	Analysis Date: 8	3/24/2015	S	SeqNo: 859302	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10				-			
Motor Oil Range Organics (MRO)	ND 50)						
Surr: DNOP	9.6	10.00		95.9	57.9 140			
Sample ID LCS-20909	SampType: L	cs	Tes	tCode: EPA Met	thod 8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 20	0909	R	RunNo: 28400				
Prep Date: 8/21/2015	Analysis Date: 8	3/24/2015	S	SeqNo: 859303	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51 10	50.00	0	102	57.4 139			
Surr: DNOP	4.7	5.000		94.7	57.9 140			
Sample ID 1508863-001AMS	SampType: M	S	Tes	tCode: EPA Met	thod 8015M/D: Die	esel Rang	e Organics	
Client ID: PT1-1	Batch ID: 20	0909	R	RunNo: 28400				
Prep Date: 8/21/2015	Analysis Date: 8	3/24/2015	S	SeqNo: 859305	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43 9.9	49.55	0	87.7	12.3 146			
Surr: DNOP	4.0	4.955		81.4	57.9 140			
Sample ID 1508863-001AMS	SD SampType: M	SD	Tes	tCode: EPA Met	thod 8015M/D: Die	esel Rang	e Organics	
Client ID: PT1-1	Batch ID: 20	0909	R	RunNo: 28400				
Prep Date: 8/21/2015	Analysis Date: 8	3/24/2015	S	SeqNo: 859306	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Diesel Range Organics (DRO)

Surr: DNOP

- 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

88.4

82.0

42.3

57.9

146

140

0.656

0

28.9

0

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 8 of 11

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **1508863**

26-Aug-15

Client: Souder, Miller & Associates

Project: Pintail

Sample ID MB-20870

Client ID: PBS Batch ID: 20870 RunNo: 28350 Prep Date: 8/19/2015 Analysis Date: 8/20/2015 SeqNo: 856333 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 850 1000 84.9 75.4 113 Sample ID LCS-20870 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 20870 RunNo: 28350 Analysis Date: 8/20/2015 Prep Date: 8/19/2015 SeqNo: 856334 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 98.9 79.6 122 900 Surr: BFB 1000 90.1 75.4 113 Sample ID 1508863-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: PT1-2 Batch ID: 20870 RunNo: 28350 SeqNo: **856335** Prep Date: 8/19/2015 Analysis Date: 8/20/2015 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 26 23.65 108 62.5 151 Surr: BFB 870 92.3 75.4 946.1 113 Sample ID 1508863-002AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: PT1-2 Batch ID: 20870 RunNo: 28350

TestCode: EPA Method 8015D: Gasoline Range

OHORRID: III Z	Datoi		0.0	•		0000				
Prep Date: 8/19/2015	Analysis D	ate: 8/	20/2015	S	SeqNo: 8	56336	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.7	23.54	0	114	62.5	151	5.36	22.1	
Surr: BFB	880		941.6		93.8	75.4	113	0	0	

Sample ID I	ИВ-20899	SampType	: MBLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	е		
Client ID: F	PBS	Batch ID	20899	F	RunNo: 2	8388					
Prep Date:	8/20/2015	Analysis Date	8/21/2015	8	SeqNo: 8	57409	Units: %RE	С			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		800	1000		80.1	75.4	113				

Sample ID LCS-20899	ample ID LCS-20899 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID): 20899	R	unNo: 2	8388				
Prep Date: 8/20/2015	Analysis Date	SeqNo: 857410			Units: %RE	С			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950	1000		94.7	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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1508863**

26-Aug-15

Client: Souder, Miller & Associates

Project: Pintail

Sample ID MB-20870 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 20870 RunNo: 28350 Prep Date: 8/19/2015 Analysis Date: 8/20/2015 SeqNo: 856345 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 0.050 Benzene ND Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID LCS-20870 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 20870 RunNo: 28350 Prep Date: 8/19/2015 Analysis Date: 8/20/2015 SeqNo: 856346 Units: mg/Kg %REC **PQL** SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Methyl tert-butyl ether (MTBE) 0.80 0.10 1.000 79.7 69.8 143 0.96 0.050 1.000 0 96.3 76.6 128 Benzene 0.050 1.000 0 97.8 75 Toluene 0.98 124 0 99.7 Ethylbenzene 1.0 0.050 1.000 79.5 126 Xylenes, Total 2.9 0.10 3.000 0 96.1 78.8 124 Surr: 4-Bromofluorobenzene 1.0 1.000 101 80 120

Sample ID 1508863-001AMS	SampT	ype: MS	3	TestCode: EPA Method 8021B: Volatiles									
Client ID: PT1-1	Batch	n ID: 20 8	870	F	RunNo: 2								
Prep Date: 8/19/2015	Analysis D	ate: 8/	20/2015	8	SeqNo: 8	56347	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Methyl tert-butyl ether (MTBE)	0.79	0.098	0.9823	0	80.3	53.6	133	•		•			
Benzene	0.95	0.049	0.9823	0	96.2	69.6	136						
Toluene	0.96	0.049	0.9823	0.02336	95.2	76.2	134						
Ethylbenzene	1.0	0.049	0.9823	0.01875	99.7	75.8	137						
Xylenes, Total	2.9	0.098	2.947	0.03586	0.03586 96.6 78		133						
Surr: 4-Bromofluorobenzene	1.0		0.9823		102	80	120						

Sample ID 1508863-001AMSI	SampType: MSD			Tes							
Client ID: PT1-1	Batch	ID: 20 8	370	F	RunNo: 2	8350					
Prep Date: 8/19/2015	Analysis D	ate: 8/	20/2015	8	SeqNo: 8	56348	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	0.79	0.095	0.9515	0	82.6	53.6	133	0.328	20		
Benzene	0.91	0.048	0.9515	0	96.1	69.6	136	3.29	20		
Toluene	0.95	0.048	0.9515	0.02336	97.2	76.2	134	1.06	20		
Ethylbenzene	0.97	0.048	0.9515	0.01875	100	75.8	137	2.52	20		

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1508863**

26-Aug-15

Client: Souder, Miller & Associates

Project: Pintail

Sample ID 1508863-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **PT1-1** Batch ID: **20870** RunNo: **28350**

Prep Date: 8/19/2015 Analysis Date: 8/20/2015 SeqNo: 856348 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Xylenes, Total 0.095 0.03586 99.0 78.9 0.647 20 2.9 2.854 133 0.9515 Surr: 4-Bromofluorobenzene 0.98 103 120 0

Sample ID MB-20899 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 20899 RunNo: 28388

Prep Date: **8/20/2015** Analysis Date: **8/21/2015** SeqNo: **857443** Units: **%REC**

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

Surr: 4-Bromofluorobenzene 0.94 1.000 93.8 80 120

Sample ID LCS-20899 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 20899 RunNo: 28388

Prep Date: 8/20/2015 Analysis Date: 8/21/2015 SeqNo: 857444 Units: %REC

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

Surr: 4-Bromofluorobenzene 1.1 1.000 107 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

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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

RcptNo: 1 Work Order Number: 1508863 Client Name: SMA-CARLSBAD Received by/date: 8/18/2015 9:18:00 AM Ashley Gallegos Logged By: 8/18/2015 5:18:58 PM Ashley Gallegos Completed By: 08 19/15 Reviewed By: Chain of Custody Not Present V 1. Custody seals intact on sample bottles? No | Not Present Yes 🗸 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In NA . No _ Yes V 4. Was an attempt made to cool the samples? NA 🗌 No Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 6. Sample(s) in proper container(s)? No 7. Sufficient sample volume for indicated test(s)? Yes 8. Are samples (except VOA and ONG) properly preserved? NA 🗌 No V Yes 9. Was preservative added to bottles? No VOA Vials No _ Yes 10. VOA vials have zero headspace? No V Yes 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? No 🗌 14. Is it clear what analyses were requested? Checked by: No 🗌 15. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Special Handling (if applicable) NA V Yes No 🗌 16, Was client notified of all discrepancies with this order? Date Person Notified: eMail Phone Fax In Person Via: By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Signed By Seal Intact | Seal No Seal Date Cooler No Temp °C Condition Good 1.0

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		Carlsbad,	Carlsbad, NM 88220	Project #:			-	Tel. 505-345-3975	-345-	975	Fax	505-345-4107	45-41	20	ě		- 8
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APPENDIX B FORM C141 FINAL

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 <u>District III</u> 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**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Ea NIM 97505

Form C-141

Revised August 8, 2011

				Sa	iiita r	е, т	NIVI O /	303							
			Rele	ase Notific	catio	n a	and C	orrective A	Action	1					
							PERA	TOR		☐ Initial Report ☐ Final Repo					
							Contact: Robert McNeill								
Address: 600 West Illinois Avenue, Midland TX 79701							Telephone No. 432-230-0077								
Facility Name: Pintail 3 Federal SWD #1							Facility Type: Battery								
Surface Ow	vner: Feder	al		Mineral C)wner:					API No.	30-025-4	1208			
LOCATION							OF RE	LEASE							
Unit Letter Section Township Range Feet from the North/									East/	West Line		Coun	ty		
J 3 26S 32E 2500								1400		East		Lea	<u>'</u>		
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				NAT	TIRE	· O.	r Dri	LEASE							
Type of Rele	ease:			IVAI	UKE			of Release:		Volume R	ecovered:				
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Source of Re								Hour of Occurren	ice:		Hour of Dis	covery	:		
Illegal Dump Was Immedi		Sixon?						5 10:00 am		1/17/2015	10:00 am				
was milleu	iale Nolice C		Yes 🔲	No Not Re	equired	If YES, To Whom? Dr. Oberding – NMOCD / Mr. Amos – BLM									
By Whom? Lupe Carrasco							Date and	Hour: 1/19/2015	12:32 pn	1					
Was a Watercourse Reached?								olume Impacting							
			Yes 🖂	No											
		em and Remed by an illegal d			by wate	er ha	auler. A f	Y Kellie Jo	nes a			10, 2	2015		
								REVIEWE	: <i>U</i>						
Describe Area Affected and Cleanup Action Taken.*							E	By Kellie Jo	nes a	t 3:16 p	m, Nov	10,	2015		
The impacte	d area was c	onfined to the	pad area.	Work was compl	eted pe	r the	e approve	ed work plan unde	er NMOC	CD guidance					
regulations a public health should their or the enviro	all operators n or the enviroperations honment. In a	are required to conment. The ave failed to a	o report an acceptance dequately ICD accept	d/or file certain re e of a C-141 repo investigate and re	elease 1 ort by th emedia	notif ne N te co	fications MOCD 1 ontamina	y knowledge and and perform corre marked as "Final l tion that pose a the eve the operator of	ective act Report" of reat to grespons	tions for rele does not relic round water, ibility for co	ases which eve the open surface wa mpliance w	may er ator of ter, hu vith any	ndanger Fliability man health		
Signature:							OIL CONSERVATION DIVISION								
Printed Nam	e: Amanda	Trujillo				Ap	proved b	y Environmental	Specialis	alist: Kul					
Title: Senior	Environme	ntal Coordinat	or			Ap	proval D	ate: 11/10/2015		Expiration I	Date: //				
E-mail Addr	ess: <u>atrujillo</u>	@concho.con	<u>1</u>			Coı	nditions	of Approval:		Attached					
_							11				1RP-35	21			

//

Phone: 575-748-6940

Date: September 1, 2015

^{*} Attach Additional Sheets If Necessary

APPENDIX C PHOTO GALLERY





Photo 1: Area of release location Taken on 4/27/15

Photo 2: Area of release location Taken on 4/27/15

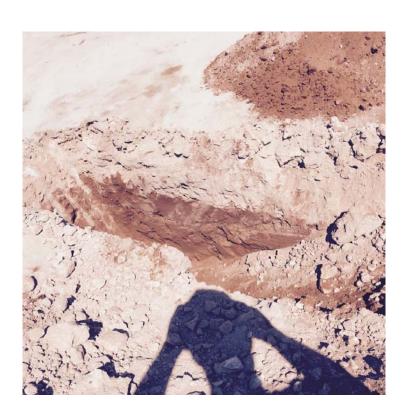


Photo 3: Take to show delineation samples. Taken on 8/13/15

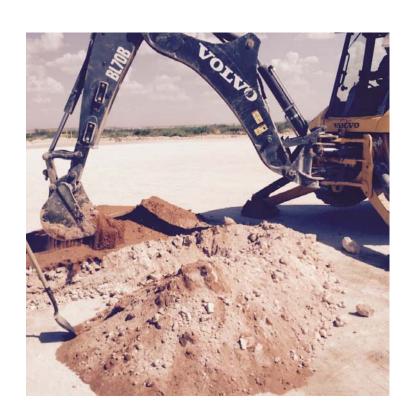


Photo 4: Take to show delineation samples. Taken on 8/13/15