

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

Form C-141
Revised April 3, 2017

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Petro - Mex LLC	Contact	Linn Wilson
Address	P.O. Box , 6724 Farmington NM	Telephone No.	505-486-5557
Facility Name	Dorothy #1	Facility Type	Oil & Gas Well
Surface Owner	FEE	Mineral Owner	
		API No.	30-045-24262

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	11	29N	15W	1840	South	520	East	San Juan

Latitude _____ Longitude _____ NAD83

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release		Volume Recovered	
Source of Release	Pit	Date and Hour of Occurrence		Date and Hour of Discovery	2012
Was Immediate Notice Given?		If YES, To Whom?		NMOCD	
Yes	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not				
Required					
By Whom?		Date and Hour			
Was a Watercourse Reached?		If YES, Volume Impacting the Watercourse.			
No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

OIL CONS. DIV DIST. 3

DEC 8 2017

Describe Area Affected and Cleanup Action Taken.*

Resample Pit area

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: <i>Linn Wilson</i>	OIL CONSERVATION DIVISION	
Printed Name: Linn Wilson	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: V.P. Operations	Approval Date: 12/18/17	Expiration Date:
E-mail Address: linn_wilson@sisna.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/8/2017	Phone: 505-486-5557	

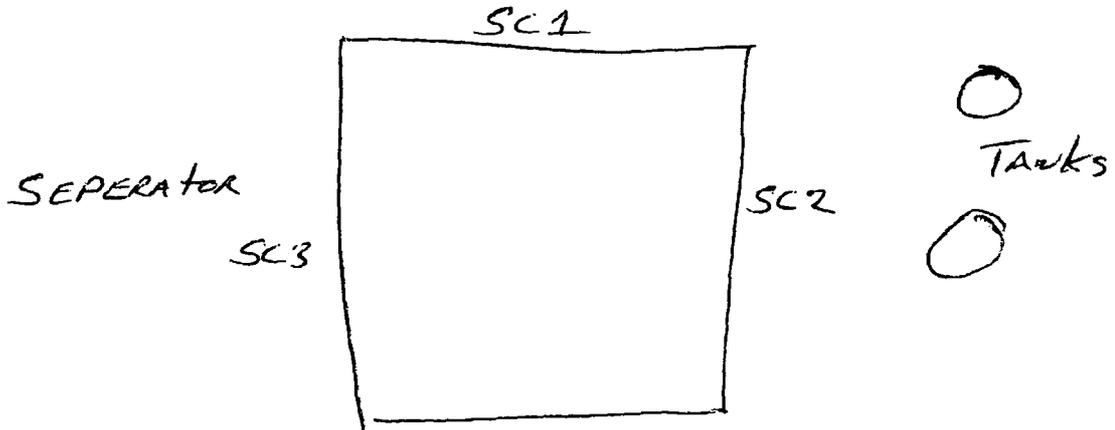
* Attach Additional Sheets If Necessary

NCS1735233719

60

Dorothy I

↑
North





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

November 30, 2017

Linn R. Wilson
Petro Mex
PO Box 6724
Farmington, NM
TEL: (505) 485-5557
FAX

OIL CONS. DIV DIST. 3
DEC 08 2017

RE: Dorothy #1

OrderNo.: 1711A96

Dear Linn R. Wilson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/21/2017 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 faint circular stamp.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1711A96

Date Reported: 11/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Petro Mex

Client Sample ID: SC1

Project: Dorothy #1

Collection Date: 11/17/2017 9:10:00 AM

Lab ID: 1711A96-001

Matrix: SOIL

Received Date: 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/29/2017 12:03:26 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/29/2017 12:03:26 PM
Surr: DNOP	95.8	70-130		%Rec	1	11/29/2017 12:03:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/27/2017 12:15:11 PM
Surr: BFB	99.2	15-316		%Rec	1	11/27/2017 12:15:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/27/2017 12:15:11 PM
Toluene	ND	0.049		mg/Kg	1	11/27/2017 12:15:11 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/27/2017 12:15:11 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/27/2017 12:15:11 PM
Surr: 4-Bromofluorobenzene	98.4	80-120		%Rec	1	11/27/2017 12:15:11 PM

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
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1711A96

Date Reported: 11/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Petro Mex

Client Sample ID: SC2

Project: Dorothy #1

Collection Date: 11/17/2017 9:20:00 AM

Lab ID: 1711A96-002

Matrix: SOIL

Received Date: 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/28/2017 9:21:59 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2017 9:21:59 PM
Surr: DNOP	95.8	70-130		%Rec	1	11/28/2017 9:21:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/27/2017 12:38:36 PM
Surr: BFB	98.9	15-316		%Rec	1	11/27/2017 12:38:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/27/2017 12:38:36 PM
Toluene	ND	0.049		mg/Kg	1	11/27/2017 12:38:36 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/27/2017 12:38:36 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/27/2017 12:38:36 PM
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	11/27/2017 12:38:36 PM

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1711A96

Date Reported: 11/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Petro Mex

Client Sample ID: SC3

Project: Dorothy #1

Collection Date: 11/17/2017 10:02:00 AM

Lab ID: 1711A96-003

Matrix: SOIL

Received Date: 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	380	9.4		mg/Kg	1	11/29/2017 12:25:23 PM
Motor Oil Range Organics (MRO)	340	47		mg/Kg	1	11/29/2017 12:25:23 PM
Surr: DNOP	102	70-130		%Rec	1	11/29/2017 12:25:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/27/2017 1:01:54 PM
Surr: BFB	103	15-316		%Rec	1	11/27/2017 1:01:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/27/2017 1:01:54 PM
Toluene	ND	0.047		mg/Kg	1	11/27/2017 1:01:54 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/27/2017 1:01:54 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/27/2017 1:01:54 PM
Surr: 4-Bromofluorobenzene	89.6	80-120		%Rec	1	11/27/2017 1:01:54 PM

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711A96

30-Nov-17

Client: Petro Mex
Project: Dorothy #1

Sample ID	LCS-35179		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	35179		RunNo:	47353				
Prep Date:	11/28/2017		Analysis Date:	11/28/2017		SeqNo:	1510946		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.4		5.000		88.0	70	130				

Sample ID	MB-35179		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	35179		RunNo:	47353				
Prep Date:	11/28/2017		Analysis Date:	11/28/2017		SeqNo:	1510947		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	9.1		10.00		91.5	70	130				

Sample ID	LCS-35149		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	35149		RunNo:	47353				
Prep Date:	11/27/2017		Analysis Date:	11/28/2017		SeqNo:	1511452		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	45	10	50.00	0	91.0	73.2	114				
Surr: DNOP	4.4		5.000		88.5	70	130				

Sample ID	MB-35149		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	35149		RunNo:	47353				
Prep Date:	11/27/2017		Analysis Date:	11/28/2017		SeqNo:	1511453		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	8.9		10.00		89.4	70	130				

Sample ID	1711C52-001AMS		SampType:	MS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	35179		RunNo:	47353				
Prep Date:	11/28/2017		Analysis Date:	11/28/2017		SeqNo:	1511922		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.4		4.912		90.0	70	130				

Sample ID	1711C52-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	35179		RunNo:	47353				
Prep Date:	11/28/2017		Analysis Date:	11/28/2017		SeqNo:	1511923		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.3		4.762		90.3	70	130	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
- PQL Practical Quantitative Limit
- 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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711A96

30-Nov-17

Client: Petro Mex

Project: Dorothy #1

Sample ID	LCS-35209	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	35209	RunNo:	47389					
Prep Date:	11/29/2017	Analysis Date:	11/29/2017	SeqNo:	1512108	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.5	70	130			

Sample ID	MB-35209	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	35209	RunNo:	47389					
Prep Date:	11/29/2017	Analysis Date:	11/29/2017	SeqNo:	1512109	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.0	70	130			

Sample ID	1711D26-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	35209	RunNo:	47389					
Prep Date:	11/29/2017	Analysis Date:	11/29/2017	SeqNo:	1512394	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		4.753		94.4	70	130			

Sample ID	1711D26-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	35209	RunNo:	47389					
Prep Date:	11/29/2017	Analysis Date:	11/29/2017	SeqNo:	1512395	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		4.836		90.4	70	130	0	0	

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 |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1711A96
 30-Nov-17

Client: Petro Mex
Project: Dorothy #1

Sample ID MB-35130	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 35130		RunNo: 47349							
Prep Date: 11/22/2017	Analysis Date: 11/27/2017		SeqNo: 1510598		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	1000		1000		101	15	316			

Sample ID LCS-35130	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 35130		RunNo: 47349							
Prep Date: 11/22/2017	Analysis Date: 11/27/2017		SeqNo: 1510600		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.6	75.9	131			
Surr: BFB	1100		1000		113	15	316			

Sample ID 1711A94-002AMS	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BatchQC	Batch ID: 35130		RunNo: 47349							
Prep Date: 11/22/2017	Analysis Date: 11/27/2017		SeqNo: 1510605		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.6	22.91	0	98.2	77.8	128			
Surr: BFB	1100		916.6		119	15	316			

Sample ID 1711A94-002AMSD	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BatchQC	Batch ID: 35130		RunNo: 47349							
Prep Date: 11/22/2017	Analysis Date: 11/27/2017		SeqNo: 1510607		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.56	0	97.5	77.8	128	2.13	20	
Surr: BFB	1100		942.5		112	15	316	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
- PQL Practical Quantitative Limit
- 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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711A96
30-Nov-17

Client: Petro Mex
Project: Dorothy #1

Sample ID	MB-35130	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch ID:	35130	RunNo:	47349						
Prep Date:	11/22/2017	Analysis Date:	11/27/2017	SeqNo:	1510626	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120				

Sample ID	LCS-35130	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batch ID:	35130	RunNo:	47349						
Prep Date:	11/22/2017	Analysis Date:	11/27/2017	SeqNo:	1510627	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.96	0.025	1.000	0	95.7	77.3	128				
Toluene	0.95	0.050	1.000	0	95.4	79.2	125				
Ethylbenzene	0.94	0.050	1.000	0	94.4	80.7	127				
Xylenes, Total	2.9	0.10	3.000	0	95.2	81.6	129				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120				

Sample ID	1711A94-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles						
Client ID:	BatchQC	Batch ID:	35130	RunNo:	47349						
Prep Date:	11/22/2017	Analysis Date:	11/27/2017	SeqNo:	1510629	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.88	0.024	0.9560	0	92.4	80.9	132				
Toluene	0.88	0.048	0.9560	0	92.3	79.8	136				
Ethylbenzene	0.87	0.048	0.9560	0	91.5	79.4	140				
Xylenes, Total	2.6	0.096	2.868	0	92.4	78.5	142				
Surr: 4-Bromofluorobenzene	0.93		0.9560		97.1	80	120				

Sample ID	1711A94-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles						
Client ID:	BatchQC	Batch ID:	35130	RunNo:	47349						
Prep Date:	11/22/2017	Analysis Date:	11/27/2017	SeqNo:	1510630	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.88	0.024	0.9615	0	91.4	80.9	132	0.502	20		
Toluene	0.87	0.048	0.9615	0	90.5	79.8	136	1.42	20		
Ethylbenzene	0.86	0.048	0.9615	0	89.4	79.4	140	1.77	20		
Xylenes, Total	2.6	0.096	2.885	0	90.0	78.5	142	2.01	20		
Surr: 4-Bromofluorobenzene	0.96		0.9615		100	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
- PQL Practical Quantitative Limit
- 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
- W Sample container temperature is out of limit as specified



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: PETRO MEX

Work Order Number: 1711A96

RcptNo: 1

Received By: Anne Thorne

11/21/2017 7:10:00 AM

Anne Thorne

Completed By: Anne Thorne

11/21/2017 12:26:46 PM

Anne Thorne

Reviewed By: DDS

11/21/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes No NA
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples (except VOA and ONG) properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. VOA vials have zero headspace? Yes No No VOA Vials
11. Were any sample containers received broken? Yes No
12. Does paperwork match bottle labels?
 (Note discrepancies on chain of custody) Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met?
 (If no, notify customer for authorization.) Yes No
- # of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	1.2	Good	Yes			

Chain-of-Custody Record

Client: PETRO-MEX

Turn-Around Time: 2
 Standard Rush ASAP

Mailing Address: P.O. Box 6724

Farmington NM, 87799

Phone #: 505-486-5557

email or Fax#: lmm@lmm.com

Project #: Deerth #1
Below Grade Pt

Project Manager: Lynn R Wilson

QA/QC Package: Standard Level 4 (Full Validation)

Accreditation: NELAP Other _____

EDD (Type) _____

Sampler: Lynn R Wilson
 On Ice: Yes No
 Sample Temperature: 12

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Remarks:	
11-17-17	9:10	Soil	SC1	802 Jar	N/A	7111996	✓	✓	✓										
11-17-17	9:20	Soil	SC2	↓	↓		✓	✓	✓										
11-17-17	10:02	Soil	SC3	↓	↓		✓	✓	✓										
11-20-17	4:08																		

OC Results Ashley Maxwell
 Bill SMP



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107
 Analysis Request

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 noted on the analytical report.



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

February 29, 2012

Attn: Cindy Gray

Petromax c/o Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Pit Closures

OrderNo.: 1202827

Dear Cindy Gray:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/24/2012 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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Petromax c/o Souder, Miller and Associates
 Project: Pit Closures
 Lab ID: 1202827-002

Client Sample ID: Dorothy NE 4'
 Collection Date: 2/22/2012 9:57:00 AM
 Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	15,000	200		mg/Kg	20	2/27/2012 11:38:11 AM
Surr: DNOP	0	77.4-131	S	%REC	20	2/27/2012 11:38:11 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	470		mg/Kg	100	2/28/2012 10:15:19 PM
Surr: BFB	98.1	69.7-121		%REC	100	2/28/2012 10:15:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	4.7		mg/Kg	100	2/28/2012 10:15:19 PM
Toluene	ND	4.7		mg/Kg	100	2/28/2012 10:15:19 PM
Ethylbenzene	ND	4.7		mg/Kg	100	2/28/2012 10:15:19 PM
Xylenes, Total	ND	9.5		mg/Kg	100	2/28/2012 10:15:19 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	100	2/28/2012 10:15:19 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Petromax c/o Souder, Miller and Associates

Client Sample ID: Bob and Blanche 5 Point

Project: Pit Closures

Collection Date: 2/22/2012 10:10:00 AM

Lab ID: 1202827-004

Matrix: SOIL

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/25/2012 5:58:51 PM
Surr: DNOP	89.4	77.4-131		%REC	1	2/25/2012 5:58:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/28/2012 11:41:36 PM
Surr: BFB	95.5	69.7-121		%REC	1	2/28/2012 11:41:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	2/28/2012 11:41:36 PM
Toluene	ND	0.046		mg/Kg	1	2/28/2012 11:41:36 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/28/2012 11:41:36 PM
Xylenes, Total	ND	0.092		mg/Kg	1	2/28/2012 11:41:36 PM
Surr: 4-Bromofluorobenzene	104	85.3-139		%REC	1	2/28/2012 11:41:36 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	84	30		mg/Kg	20	2/27/2012 3:13:52 PM
EPA METHOD 418.1: TPH						Analyst: JMP
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/29/2012

Qualifiers: */X Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Petromax c/o Souder, Miller and Associates
Project: Pit Closures
Lab ID: 1202827-006

Client Sample ID: Kirtland 18-1 5 Point
Collection Date: 2/22/2012 10:38:00 AM
Received Date: 2/24/2012 10:05:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	2,700	200		mg/Kg	20	2/27/2012 1:26:04 PM
Surr: DNOP	0	77.4-131	S	%REC	20	2/27/2012 1:26:04 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	230		mg/Kg	50	2/29/2012 12:39:07 AM
Surr: BFB	95.3	69.7-121		%REC	50	2/29/2012 12:39:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	2.3		mg/Kg	50	2/29/2012 12:39:07 AM
Toluene	ND	2.3		mg/Kg	50	2/29/2012 12:39:07 AM
Ethylbenzene	ND	2.3		mg/Kg	50	2/29/2012 12:39:07 AM
Xylenes, Total	ND	4.6		mg/Kg	50	2/29/2012 12:39:07 AM
Surr: 4-Bromofluorobenzene	104	85.3-139		%REC	50	2/29/2012 12:39:07 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	90	7.5		mg/Kg	5	2/27/2012 3:26:17 PM
EPA METHOD 418.1: TPH						Analyst: JMP
Petroleum Hydrocarbons, TR	11,000	2,000		mg/Kg	100	2/29/2012

Qualifiers: */X Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1202827

29-Feb-12

Client: Petromax c/o Souder, Miller and Associates

Project: Pit Closures

Sample ID	LCS-857	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	857	RunNo:	1147					
Prep Date:	2/27/2012	Analysis Date:	2/27/2012	SeqNo:	32718	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.8	90	110			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1202827
 29-Feb-12

Client: Petromax c/o Souder, Miller and Associates
Project: Pit Closures

Sample ID MB-842	SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: PBS	Batch ID: 842		RunNo: 1128							
Prep Date: 2/24/2012	Analysis Date: 2/25/2012		SeqNo: 31991		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.1		10.00		91.4	77.4	131			

Sample ID LCS-842	SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: LCSS	Batch ID: 842		RunNo: 1128							
Prep Date: 2/24/2012	Analysis Date: 2/25/2012		SeqNo: 31992		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	87.7	62.7	139			
Surr: DNOP	4.5		5.000		90.4	77.4	131			

Qualifiers:

- | | |
|---|--|
| * / X Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1202827
 29-Feb-12

Client: Petromax c/o Souder, Miller and Associates
Project: Pit Closures

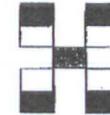
Sample ID MB-844	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 844	RunNo: 1157								
Prep Date: 2/24/2012	Analysis Date: 2/27/2012	SeqNo: 33032	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	85.3	139			

Sample ID LCS-844	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 844	RunNo: 1157								
Prep Date: 2/24/2012	Analysis Date: 2/27/2012	SeqNo: 33036	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	83.3	107			
Toluene	1.0	0.050	1.000	0	102	74.3	115			
Ethylbenzene	1.0	0.050	1.000	0	103	80.9	122			
Xylenes, Total	3.1	0.10	3.000	0	103	85.2	123			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	85.3	139			

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Chain-of-Custody Record



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time:
 Standard Rush

Client: Petromax

Project Name: c/o Souder, Miller & Associates
Pit Closures

Mailing Address: 2106 San Juan Blvd
Farmington, NM 87401

Project #: 5121554

Phone #:

Project Manager: Cynthia Gray

email or Fax#: Cindy.Gray@SoudersMiller.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type) _____

Sampler: Abraham Sotelo

On Ice: YES NO

Sample Temperature: _____

Analysis Request												
BTEX + MTBE + TMBE* (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides (300.0)	Air Bubbles (Y or N)
✓	✓	✓	✓								✓	
✓	✓	✓	✓									
✓	✓	✓	✓								✓	
✓	✓	✓	✓								✓	
✓	✓	✓	✓								✓	
✓	✓	✓	✓									

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
2/22/12	9:05	Soil	Dorothy S Point	1 each 4 oz	Cool	1202821
"	9:57	"	Dorothy NE 4'		Cool	-2
"	10:00	"	Dorothy East Wall 5'		Cool	-3
"	10:10	"	Bob & Blanche S Point			-4
"	10:11	"	" " " NE corner			-5
"	10:38	"	Kir Hand 18-1 S Point			-6
"	10:39	"	" " " NE corner			-7

Date: 2/22/12 Time: 1650 Relinquished by: Abraham Sotelo Received by: [Signature] Date: 2/22/12 Time: 1650 Remarks: No MRD, No MTBE Combined 8015 & 8021

Date: 2/23/12 Time: 1440 Relinquished by: Jenny B. Fount Received by: Master Woods Date: 2/23/12 Time: 1440

Any data not reported on this form will be clearly noted on the analytical report.



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

April 13, 2012

Cindy Gray

Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Pit Closures

OrderNo.: 1204250

Dear Cindy Gray:

Hall Environmental Analysis Laboratory received 10 sample(s) on 4/5/2012 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. 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. All samples are reported as received unless otherwise indicated.

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

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.

CLIENT: Souder, Miller and Associates

Client Sample ID: Bob & Blanche W Monitoring W

Project: Pit Closures

Collection Date: 4/4/2012 10:08:00 AM

Lab ID: 1204250-002

Matrix: AQUEOUS

Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: JDJ
Benzene	ND	1.0		µg/L	1	4/11/2012 2:04:35 PM
Toluene	ND	1.0		µg/L	1	4/11/2012 2:04:35 PM
Ethylbenzene	ND	1.0		µg/L	1	4/11/2012 2:04:35 PM
Xylenes, Total	ND	2.0		µg/L	1	4/11/2012 2:04:35 PM
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%REC	1	4/11/2012 2:04:35 PM
Surr: 4-Bromofluorobenzene	110	70-130		%REC	1	4/11/2012 2:04:35 PM
Surr: Dibromofluoromethane	92.6	69.8-130		%REC	1	4/11/2012 2:04:35 PM
Surr: Toluene-d8	105	70-130		%REC	1	4/11/2012 2:04:35 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204250

Date Reported: 4/13/2012

CLIENT: Souder, Miller and Associates

Client Sample ID: Bob & Blanche South Central #4

Project: Pit Closures

Collection Date: 4/4/2012 10:31:00 AM

Lab ID: 1204250-004

Matrix: AQUEOUS

Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: JDJ
Benzene	ND	1.0		µg/L	1	4/11/2012 3:03:21 PM
Toluene	ND	1.0		µg/L	1	4/11/2012 3:03:21 PM
Ethylbenzene	ND	1.0		µg/L	1	4/11/2012 3:03:21 PM
Xylenes, Total	ND	2.0		µg/L	1	4/11/2012 3:03:21 PM
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%REC	1	4/11/2012 3:03:21 PM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	4/11/2012 3:03:21 PM
Surr: Dibromofluoromethane	96.0	69.8-130		%REC	1	4/11/2012 3:03:21 PM
Surr: Toluene-d8	102	70-130		%REC	1	4/11/2012 3:03:21 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1204250
 Date Reported: 4/13/2012

CLIENT: Souder, Miller and Associates

Client Sample ID: Dorothy #1 GW Grab

Project: Pit Closures

Collection Date: 4/4/2012 8:50:00 AM

Lab ID: 1204250-006

Matrix: AQUEOUS

Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: JDJ
Benzene	ND	1.0		µg/L	1	4/11/2012 4:02:20 PM
Toluene	ND	1.0		µg/L	1	4/11/2012 4:02:20 PM
Ethylbenzene	ND	1.0		µg/L	1	4/11/2012 4:02:20 PM
Xylenes, Total	ND	2.0		µg/L	1	4/11/2012 4:02:20 PM
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%REC	1	4/11/2012 4:02:20 PM
Surr: 4-Bromofluorobenzene	111	70-130		%REC	1	4/11/2012 4:02:20 PM
Surr: Dibromofluoromethane	101	69.8-130		%REC	1	4/11/2012 4:02:20 PM
Surr: Toluene-d8	100	70-130		%REC	1	4/11/2012 4:02:20 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates **Client Sample ID:** Dorothy #1 South Well 5 pt. Co
Project: Pit Closures **Collection Date:** 4/4/2012 9:08:00 AM
Lab ID: 1204250-008 **Matrix:** SOIL **Received Date:** 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	5,300	200		mg/Kg	20	4/9/2012 9:07:50 AM
Surr: DNOP	0	77.4-131	S	%REC	20	4/9/2012 9:07:50 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	310	250		mg/Kg	50	4/10/2012 7:20:20 PM
Surr: BFB	154	69.7-121	S	%REC	50	4/10/2012 7:20:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.5		mg/Kg	50	4/10/2012 7:20:20 PM
Toluene	ND	2.5		mg/Kg	50	4/10/2012 7:20:20 PM
Ethylbenzene	ND	2.5		mg/Kg	50	4/10/2012 7:20:20 PM
Xylenes, Total	ND	4.9		mg/Kg	50	4/10/2012 7:20:20 PM
Surr: 4-Bromofluorobenzene	98.9	80-120		%REC	50	4/10/2012 7:20:20 PM
EPA METHOD 418.1: TPH						Analyst: JMP
Petroleum Hydrocarbons, TR	19,000	400		mg/Kg	20	4/9/2012

Qualifiers: */X Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1204250

Date Reported: 4/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Kirtland 18-1 5 pt Comp

Project: Pit Closures

Collection Date: 4/4/2012 10:56:00 AM

Lab ID: 1204250-010

Matrix: SOIL

Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	690	200		mg/Kg	20	4/9/2012 9:29:05 AM
Surr: DNOP	0	77.4-131	S	%REC	20	4/9/2012 9:29:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	97		mg/Kg	20	4/10/2012 8:17:54 PM
Surr: BFB	103	69.7-121		%REC	20	4/10/2012 8:17:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.97		mg/Kg	20	4/10/2012 8:17:54 PM
Toluene	ND	0.97		mg/Kg	20	4/10/2012 8:17:54 PM
Ethylbenzene	ND	0.97		mg/Kg	20	4/10/2012 8:17:54 PM
Xylenes, Total	ND	1.9		mg/Kg	20	4/10/2012 8:17:54 PM
Surr: 4-Bromofluorobenzene	96.1	80-120		%REC	20	4/10/2012 8:17:54 PM
EPA METHOD 418.1: TPH						Analyst: JMP
Petroleum Hydrocarbons, TR	3,000	200		mg/Kg	10	4/9/2012

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1204250

13-Apr-12

Client: Souder, Miller and Associates

Project: Pit Closures

Sample ID MB-1416	SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: PBS	Batch ID: 1416		RunNo: 1976							
Prep Date: 4/6/2012	Analysis Date: 4/7/2012		SeqNo: 55075		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.3		10.00		92.6	77.4	131			

Sample ID LCS-1416	SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: LCSS	Batch ID: 1416		RunNo: 1976							
Prep Date: 4/6/2012	Analysis Date: 4/7/2012		SeqNo: 55076		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.0	62.7	139			
Surr: DNOP	4.5		5.000		91.0	77.4	131			

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1204250
 13-Apr-12

Client: Souder, Miller and Associates
Project: Pit Closures

Sample ID MB-1393	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 1393	RunNo: 2013								
Prep Date: 4/5/2012	Analysis Date: 4/9/2012	SeqNo: 56126	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	0.97		1.000		97.1	80	120			

Sample ID LCS-1393	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 1393	RunNo: 2013								
Prep Date: 4/5/2012	Analysis Date: 4/9/2012	SeqNo: 56127	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	83.3	107			
Toluene	1.0	0.050	1.000	0	105	74.3	115			
Ethylbenzene	1.0	0.050	1.000	0	104	80.9	122			
Xylenes, Total	3.2	0.10	3.000	0	105	85.2	123			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4101
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM	Work Order Number: 1204250
Received by/date: <i>[Signature]</i> 4/5/12	
Logged By: Lindsay Mangin 4/5/2012 9:45:00 AM	<i>[Signature]</i>
Completed By: Lindsay Mangin 4/5/2012 1:11:15 PM	<i>[Signature]</i>
Reviewed By: FO 04/05/12	

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes No NA
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. VOA vials have zero headspace? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

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

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: _____	
Client Instructions: _____	

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Yes			



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

April 30, 2012

Cindy Gray

Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-5667
FAX: (505) 327-1496

RE: Petromax Pit Closures

OrderNo.: 1204A57

Dear Cindy Gray:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/27/2012 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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

OIL CONS. DIV DIST. 3

NOV 07 2017

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204A57

Date Reported: 4/30/2012

CLIENT: Souder, Miller and Associates

Client Sample ID: Dorothy #1

Project: Petromax Pit Closures

Collection Date: 4/26/2012 10:45:00 AM

Lab ID: 1204A57-001

Matrix: AQUEOUS

Received Date: 4/27/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	20	0.50		mg/L	1	4/27/2012 6:16:49 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204A57
30-Apr-12

Client: Souder, Miller and Associates
Project: Petromax Pit Closures

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R2455	RunNo: 2455								
Prep Date:	Analysis Date: 4/27/2012	SeqNo: 68312			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R2455	RunNo: 2455								
Prep Date:	Analysis Date: 4/27/2012	SeqNo: 68313			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.4	90	110			

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R2455	RunNo: 2455								
Prep Date:	Analysis Date: 4/27/2012	SeqNo: 68348			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1204A57

Received by/date:  04/27/12

Logged By: Ashley Gallegos 4/27/2012 9:55:00 AM 

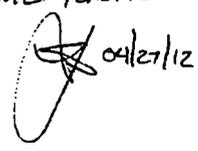
Completed By: Ashley Gallegos 4/27/2012 10:59:48 AM 

Reviewed By:  04/27/12

Chain of Custody

- 1. Were seals intact? Yes No Not Present ✓
- 2. Is Chain of Custody complete? Yes ✓ No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes ✓ No NA
- 5. Was an attempt made to cool the samples? Yes ✓ No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ No NA
- 7. Sample(s) in proper container(s)? ~~Yes~~ ✓ No ✓ **POURED OFF INTO A 125mL PLASTIC.**
- 8. Sufficient sample volume for indicated test(s)? Yes ✓ No
- 9. Are samples (except VOA and ONG) properly preserved? Yes ✓ No
- 10. Was preservative added to bottles? Yes No ✓ NA  04/27/12
- 11. VOA vials have zero headspace? Yes No No VOA Vials ✓
- 12. Were any sample containers received broken? Yes No ✓
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ✓ No # of preserved bottles checked for pH:
- 14. Are matrices correctly identified on Chain of Custody? Yes ✓ No (<2 or >12 unless noted)
- 15. Is it clear what analyses were requested? Yes ✓ No Adjusted?
- 16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ✓ No Checked by:

Special Handling (if applicable)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

May 15, 2012

Cindy Gray

Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Petromax Pit Closures

OrderNo.: 1205222

Dear Cindy Gray:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/3/2012 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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

OIL CONS. DIV DIST. 3
NOV 07 2017

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1205222
 Date Reported: 5/15/2012

CLIENT: Souder, Miller and Associates

Client Sample ID: E. South Wall 2 Pt.

Project: Petromax Pit Closures

Collection Date: 4/30/2012 9:00:00 AM

Lab ID: 1205222-001

Matrix: SOIL

Received Date: 5/3/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	2,400	510		mg/Kg	50	5/7/2012 2:28:38 PM
Motor Oil Range Organics (MRO)	ND	2,600		mg/Kg	50	5/7/2012 2:28:38 PM
Surr: DNOP	0	77.4-131	S	%REC	50	5/7/2012 2:28:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	9.8		mg/Kg	2	5/7/2012 10:45:11 PM
Surr: BFB	104	69.7-121		%REC	2	5/7/2012 10:45:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.098		mg/Kg	2	5/7/2012 10:45:11 PM
Toluene	ND	0.098		mg/Kg	2	5/7/2012 10:45:11 PM
Ethylbenzene	ND	0.098		mg/Kg	2	5/7/2012 10:45:11 PM
Xylenes, Total	ND	0.20		mg/Kg	2	5/7/2012 10:45:11 PM
Surr: 4-Bromofluorobenzene	92.1	80-120		%REC	2	5/7/2012 10:45:11 PM
EPA METHOD 418.1: TPH						Analyst: JMP
Petroleum Hydrocarbons, TR	4,500	190		mg/Kg	10	5/7/2012

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1205222
 Date Reported: 5/15/2012

CLIENT: Souder, Miller and Associates

Client Sample ID: W. South Wall 2 Pt

Project: Petromax Pit Closures

Collection Date: 4/30/2012 9:30:00 AM

Lab ID: 1205222-002

Matrix: SOIL

Received Date: 5/3/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/7/2012 10:52:51 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/7/2012 10:52:51 AM
Surr: DNOP	100	77.4-131		%REC	1	5/7/2012 10:52:51 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/7/2012 2:07:29 PM
Surr: BFB	102	69.7-121		%REC	1	5/7/2012 2:07:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	5/7/2012 2:07:29 PM
Toluene	ND	0.049		mg/Kg	1	5/7/2012 2:07:29 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/7/2012 2:07:29 PM
Xylenes, Total	ND	0.098		mg/Kg	1	5/7/2012 2:07:29 PM
Surr: 4-Bromofluorobenzene	91.6	80-120		%REC	1	5/7/2012 2:07:29 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1205222
 15-May-12

Client: Souder, Miller and Associates
Project: Petromax Pit Closures

Sample ID MB-1813	SampType: MBLK		TestCode: EPA Method 418.1: TPH							
Client ID: PBS	Batch ID: 1813		RunNo: 2592							
Prep Date: 5/4/2012	Analysis Date: 5/7/2012		SeqNo: 72138		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-1813	SampType: LCS		TestCode: EPA Method 418.1: TPH							
Client ID: LCSS	Batch ID: 1813		RunNo: 2592							
Prep Date: 5/4/2012	Analysis Date: 5/7/2012		SeqNo: 72139		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	99.6	87.8	115			

Sample ID LCSD-1813	SampType: LCSD		TestCode: EPA Method 418.1: TPH							
Client ID: LCSS02	Batch ID: 1813		RunNo: 2592							
Prep Date: 5/4/2012	Analysis Date: 5/7/2012		SeqNo: 72140		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	96	20	100.0	0	95.6	87.8	115	4.06	8.04	

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205222

15-May-12

Client: Souder, Miller and Associates

Project: Petromax Pit Closures

Sample ID MB-1811	SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: PBS	Batch ID: 1811		RunNo: 2597							
Prep Date: 5/4/2012	Analysis Date: 5/7/2012		SeqNo: 72244		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	9.6		10.00		95.8	77.4	131			

Sample ID LCS-1811	SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: LCSS	Batch ID: 1811		RunNo: 2597							
Prep Date: 5/4/2012	Analysis Date: 5/7/2012		SeqNo: 72245		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	75.5	62.7	139			
Surr: DNOP	4.6		5.000		91.7	77.4	131			

Sample ID 1205205-001AMS	SampType: MS		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: BatchQC	Batch ID: 1811		RunNo: 2597							
Prep Date: 5/4/2012	Analysis Date: 5/7/2012		SeqNo: 72487		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.9	49.60	0	73.9	57.2	146			
Surr: DNOP	4.3		4.960		85.9	77.4	131			

Sample ID 1205205-001AMSD	SampType: MSD		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: BatchQC	Batch ID: 1811		RunNo: 2597							
Prep Date: 5/4/2012	Analysis Date: 5/7/2012		SeqNo: 72502		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.35	0	81.1	57.2	146	10.7	26.7	
Surr: DNOP	4.4		5.035		86.8	77.4	131	0	0	

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1205222

15-May-12

Client: Souder, Miller and Associates
Project: Petromax Pit Closures

Sample ID MB-1810	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: 1810	RunNo: 2625								
Prep Date: 5/4/2012	Analysis Date: 5/7/2012	SeqNo: 73040	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	1,000		1,000		103	69.7	121			

Sample ID LCS-1810	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: 1810	RunNo: 2625								
Prep Date: 5/4/2012	Analysis Date: 5/7/2012	SeqNo: 73041	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	98.5	133			
Surr: BFB	1,100		1,000		111	69.7	121			

Sample ID 1205205-001AMS	SampType: MS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: BatchQC	Batch ID: 1810	RunNo: 2625								
Prep Date: 5/4/2012	Analysis Date: 5/7/2012	SeqNo: 73043	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.63	0	100	85.4	147			
Surr: BFB	1,100		985.2		110	69.7	121			

Sample ID 1205205-001AMSD	SampType: MSD	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: BatchQC	Batch ID: 1810	RunNo: 2625								
Prep Date: 5/4/2012	Analysis Date: 5/7/2012	SeqNo: 73044	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.27	0	97.0	85.4	147	4.63	19.2	
Surr: BFB	1,100		970.9		111	69.7	121	0	0	

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205222

15-May-12

Client: Souder, Miller and Associates

Project: Petromax Pit Closures

Sample ID MB-1810	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 1810	RunNo: 2625								
Prep Date: 5/4/2012	Analysis Date: 5/7/2012	SeqNo: 73104	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	0.94		1.000		94.0	80	120			

Sample ID LCS-1810	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 1810	RunNo: 2625								
Prep Date: 5/4/2012	Analysis Date: 5/7/2012	SeqNo: 73105	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	93.7	83.3	107			
Toluene	0.98	0.050	1.000	0	97.7	74.3	115			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80.9	122			
Xylenes, Total	2.9	0.10	3.000	0	97.0	85.2	123			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.9	80	120			

Sample ID 1205222-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: E. South Wall 2 Pt.	Batch ID: 1810	RunNo: 2625								
Prep Date: 5/4/2012	Analysis Date: 5/7/2012	SeqNo: 73113	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.099	0.9901	0	77.1	67.2	113			
Toluene	0.79	0.099	0.9901	0	79.9	62.1	116			
Ethylbenzene	0.78	0.099	0.9901	0	78.5	67.9	127			
Xylenes, Total	2.3	0.20	2.970	0	78.6	60.6	134			
Surr: 4-Bromofluorobenzene	1.9		1.980		95.0	80	120			

Sample ID 1205222-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: E. South Wall 2 Pt.	Batch ID: 1810	RunNo: 2625								
Prep Date: 5/4/2012	Analysis Date: 5/7/2012	SeqNo: 73114	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.097	0.9709	0	76.9	67.2	113	2.27	14.3	
Toluene	0.77	0.097	0.9709	0	79.5	62.1	116	2.53	15.9	
Ethylbenzene	0.77	0.097	0.9709	0	79.0	67.9	127	1.33	14.4	
Xylenes, Total	2.3	0.19	2.913	0	78.6	60.6	134	1.94	12.6	
Surr: 4-Bromofluorobenzene	1.8		1.942		94.2	80	120	0	0	

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4101
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1205222
 Received by/date: LM 05/03/12
 Logged By: Ashley Gallegos 5/3/2012 10:00:00 AM [Signature]
 Completed By: Ashley Gallegos 5/3/2012 6:16:43 PM [Signature]
 Reviewed By: [Signature] 05/04/12

Chain of Custody

- 1. Were seals intact? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 14. Are matrices correctly identified on Chain of Custody? Yes No
- 15. Is it clear what analyses were requested? Yes No
- 16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

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

Special Handling (if applicable)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

August 28, 2012

Cindy Gray

Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Petro-Mex Dorothy #1

OrderNo.: 1208860

Dear Cindy Gray:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/17/2012 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. 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. 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.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

OIL CONS. DIV DIST. 3

NOV 07 2017

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1208860
 Date Reported: 8/28/2012

CLIENT: Souder, Miller and Associates

Client Sample ID: Dorothy #1 five pt

Project: Petro-Mex Dorothy #1

Collection Date: 8/16/2012 9:04:00 AM

Lab ID: 1208860-001

Matrix: SOIL

Received Date: 8/17/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	3100	190		mg/Kg	20	8/23/2012 10:15:36 AM
Motor Oil Range Organics (MRO)	1600	970		mg/Kg	20	8/23/2012 10:15:36 AM
Surr: DNOP	0	77.6-140	S	%REC	20	8/23/2012 10:15:36 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	37	4.7		mg/Kg	1	8/22/2012 1:46:06 PM
Surr: BFB	220	84-116	S	%REC	1	8/22/2012 1:46:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	8/22/2012 1:46:06 PM
Toluene	ND	0.047		mg/Kg	1	8/22/2012 1:46:06 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/22/2012 1:46:06 PM
Xylenes, Total	0.27	0.095		mg/Kg	1	8/22/2012 1:46:06 PM
Surr: 4-Bromofluorobenzene	115	80-120		%REC	1	8/22/2012 1:46:06 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 X Value exceeds Maximum Contaminant Level.

E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Dorothy #1 4' SE

Project: Petro-Mex Dorothy #1

Collection Date: 8/16/2012 9:06:00 AM

Lab ID: 1208860-002

Matrix: SOIL

Received Date: 8/17/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	4900	190		mg/Kg	20	8/23/2012 10:37:26 AM
Motor Oil Range Organics (MRO)	2800	960		mg/Kg	20	8/23/2012 10:37:26 AM
Surr: DNOP	0	77.6-140	S	%REC	20	8/23/2012 10:37:26 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	49	46		mg/Kg	10	8/22/2012 3:41:18 PM
Surr: BFB	122	84-116	S	%REC	10	8/22/2012 3:41:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.46		mg/Kg	10	8/22/2012 3:41:18 PM
Toluene	ND	0.46		mg/Kg	10	8/22/2012 3:41:18 PM
Ethylbenzene	ND	0.46		mg/Kg	10	8/22/2012 3:41:18 PM
Xylenes, Total	ND	0.93		mg/Kg	10	8/22/2012 3:41:18 PM
Surr: 4-Bromofluorobenzene	99.3	80-120		%REC	10	8/22/2012 3:41:18 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
	X	Value exceeds Maximum Contaminant Level.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1208860

28-Aug-12

Client: Souder, Miller and Associates

Project: Petro-Mex Dorothy #1

Sample ID MB-3438	SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: PBS	Batch ID: 3438		RunNo: 5017							
Prep Date: 8/22/2012	Analysis Date: 8/22/2012		SeqNo: 142066		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								
Sur: DNOP	11		10.00		112	77.6	140			

Sample ID LCS-3438	SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: LCSS	Batch ID: 3438		RunNo: 5017							
Prep Date: 8/22/2012	Analysis Date: 8/22/2012		SeqNo: 142334		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	73.1	52.6	130			
Sur: DNOP	4.4		5.000		88.2	77.6	140			

Qualifiers:

- | | |
|--|---|
| B Analyte detected in the associated Method Blank | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| RL Reporting Detection Limit | S Spike Recovery outside accepted recovery limits |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208860

28-Aug-12

Client: Souder, Miller and Associates

Project: Petro-Mex Dorothy #1

Sample ID	MB-3460	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	PBW	Batch ID:	3460	RunNo:	5044					
Prep Date:	8/23/2012	Analysis Date:	8/23/2012	SeqNo:	143373	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	1.3		1.000		126	79.5	166			

Sample ID	LCS-3460	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSW	Batch ID:	3460	RunNo:	5044					
Prep Date:	8/23/2012	Analysis Date:	8/23/2012	SeqNo:	143388	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.51		0.5000		103	79.5	166			

Sample ID	LCSD-3460	SampType:	LCSD	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSS02	Batch ID:	3460	RunNo:	5044					
Prep Date:	8/23/2012	Analysis Date:	8/23/2012	SeqNo:	143389	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.51		0.5000		102	79.5	166	0	0	

Qualifiers:

- | | | | |
|----|--|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Detection Limit | S | Spike Recovery outside accepted recovery limits |

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1208860

28-Aug-12

Client: Souder, Miller and Associates
Project: Petro-Mex Dorothy #1

Sample ID MB-3428	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: 3428	RunNo: 5025								
Prep Date: 8/21/2012	Analysis Date: 8/22/2012	SeqNo: 143036	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	970		1000		97.4	84	116			

Sample ID LCS-3428	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: 3428	RunNo: 5025								
Prep Date: 8/21/2012	Analysis Date: 8/22/2012	SeqNo: 143037	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.3	74	117			
Surr: BFB	1000		1000		99.9	84	116			

Qualifiers:

- | | |
|--|---|
| B Analyte detected in the associated Method Blank | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| RL Reporting Detection Limit | S Spike Recovery outside accepted recovery limits |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208860

28-Aug-12

Client: Souder, Miller and Associates
Project: Petro-Mex Dorothy #1

Sample ID MB-3428	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 3428	RunNo: 5025								
Prep Date: 8/21/2012	Analysis Date: 8/22/2012	SeqNo: 143050	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		101	80	120			

Sample ID LCS-3428	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 3428	RunNo: 5025								
Prep Date: 8/21/2012	Analysis Date: 8/22/2012	SeqNo: 143051	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.2	76.3	117			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	77	116			
Xylenes, Total	3.0	0.10	3.000	0	101	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

- | | | | |
|----|--|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
| RL | Reporting Detection Limit | S | Spike Recovery outside accepted recovery limits |



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4101
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1208860
 Received by/date: MG 08/17/12
 Logged By: Anne Thorne 8/17/2012 10:00:00 AM *Anne Thorne*
 Completed By: Anne Thorne 8/21/2012 *Anne Thorne*
 Reviewed By: AT 08/21/12

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes No NA
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. VOA vials have zero headspace? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

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

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

April 10, 2013

Cindy Gray

Souder, Miller and Associates

2101 San Juan Boulevard

Farmington, NM 87401

TEL: (505) 325-5667

FAX (505) 327-1496

RE: Pit Closures

OrderNo.: 1304203

Dear Cindy Gray:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/4/2013 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. 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. 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.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light gray rectangular background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1304203

Date Reported: 4/10/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Dorothy Composite

Project: Pit Closures

Collection Date: 4/3/2013 9:00:00 AM

Lab ID: 1304203-001

Matrix: SOIL

Received Date: 4/4/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/9/2013 8:55:13 PM
Surr: DNOP	77.5	72.4-120		%REC	1	4/9/2013 8:55:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/8/2013 2:42:01 PM
Surr: BFB	95.5	80-120		%REC	1	4/8/2013 2:42:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/8/2013 2:42:01 PM
Toluene	ND	0.047		mg/Kg	1	4/8/2013 2:42:01 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/8/2013 2:42:01 PM
Xylenes, Total	ND	0.094		mg/Kg	1	4/8/2013 2:42:01 PM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	4/8/2013 2:42:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1304203

10-Apr-13

Client: Souder, Miller and Associates

Project: Pit Closures

Sample ID MB-6861	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 6861	RunNo: 9729								
Prep Date: 4/8/2013	Analysis Date: 4/9/2013	SeqNo: 277319			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		102	72.4	120			

Sample ID LCS-6861	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 6861	RunNo: 9729								
Prep Date: 4/8/2013	Analysis Date: 4/9/2013	SeqNo: 277320			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	47.4	122			
Surr: DNOP	5.3		5.000		106	72.4	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1304203

10-Apr-13

Client: Souder, Miller and Associates

Project: Pit Closures

Sample ID	MB-6843	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	6843	RunNo:	9720					
Prep Date:	4/5/2013	Analysis Date:	4/8/2013	SeqNo:	277000	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	960		1000		96.2	80	120			

Sample ID	LCS-6843	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	6843	RunNo:	9720					
Prep Date:	4/5/2013	Analysis Date:	4/8/2013	SeqNo:	277001	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	62.6	136			
Surr: BFB	1000		1000		102	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1304203

10-Apr-13

Client: Souder, Miller and Associates
Project: Pit Closures

Sample ID MB-6843	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 6843	RunNo: 9720								
Prep Date: 4/5/2013	Analysis Date: 4/8/2013	SeqNo: 277028	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID LCS-6843	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 6843	RunNo: 9720								
Prep Date: 4/5/2013	Analysis Date: 4/8/2013	SeqNo: 277029	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	105	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID 1304203-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: Dorothy Composite	Batch ID: 6843	RunNo: 9720								
Prep Date: 4/5/2013	Analysis Date: 4/8/2013	SeqNo: 277035	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.047	0.9328	0.004760	97.2	67.2	113			
Toluene	0.95	0.047	0.9328	0.003857	101	62.1	116			
Ethylbenzene	0.94	0.047	0.9328	0	101	67.9	127			
Xylenes, Total	2.8	0.093	2.799	0	101	60.6	134			
Surr: 4-Bromofluorobenzene	1.0		0.9328		112	80	120			

Sample ID 1304203-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: Dorothy Composite	Batch ID: 6843	RunNo: 9720								
Prep Date: 4/5/2013	Analysis Date: 4/8/2013	SeqNo: 277042	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.047	0.9346	0.004760	94.1	67.2	113	3.06	14.3	
Toluene	0.94	0.047	0.9346	0.003857	100	62.1	116	0.711	15.9	
Ethylbenzene	0.94	0.047	0.9346	0	101	67.9	127	0.144	14.4	
Xylenes, Total	2.8	0.093	2.804	0	101	60.6	134	0.254	12.6	
Surr: 4-Bromofluorobenzene	1.0		0.9346		112	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1304203

RcptNo: 1

Received by/date: LM 04/04/13
 Logged By: Lindsay Mangin 4/4/2013 10:00:00 AM LM
 Completed By: Lindsay Mangin 4/4/2013 2:05:30 PM LM
 Reviewed By: LM 04/04/13

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

