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 8750

# State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr.

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notifi	catio	n and Co	orrective A	ction						
						<b>OPERA</b>	TOR		🗌 Initia	l Repor	rt 🕽	Final R		
Name of Co	ompany	Petro - Mex	LLC			Contact Linn Wilson								
Address F	P.O. Box,	6724 Farmir	igton NM			Telephone No. 505-486-5557								
Facility Na	ne Dorot	hy #1				Facility Typ	be Oil & Gas W	/ell				<u> </u>		
Surface Ow	ner FEE			Mineral (	Owner				API No	. 30-04	5-242	62		
				LOC	ATIO		ELSE		•					
Unit Letter	Section	Townshin	Range	EUC/	North	South Line	Feet from the	East/V	Vest Line	County	·· <u>·</u> ·······			
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i ype of Kele	lence Dit	cu water				Date and L	Iour of Occurrent	<u></u>	Date and 3	Hour of 1	u Discov	ery 2012		
Was Immedi	ate Notice (	Jiven?				If YES. To	Whom?		Car and		213604			
Ye Required	s		🔀 Yes		ot	NMOCD								
By Whom?					<u> </u>	Date and H	lour							
Was a Water	course Read	ched?				If YES, Vo	olume Impacting	the Wate	rcourse.					
No			Ycs	X No										
If a Watercou	urse was Im	pacted, Deser	ibe Fully.*	n Taken *					0// 00					
If a Watercou Describe Cau	urse was Im	pacted, Deser em and Reme	ibe Fully.* dial Action	n Taken.*		I			OIL CO	NS. D	וס או	ST. 3		
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If a Watercon Describe Cau Describe Are Resample Pit I hereby certi regulations a public health should their co federal. state, Signature: <u>Printed Name</u> <u>Fittle: V.P. O</u> <u>E-mail Addre</u>	a Affected a area fy that the i ll operators or the envin operations h mment. In a or local law	em and Reme and Cleanup A nformation g are required t ave failed to a ddition, NMC ws and/or regu Lillicon@sisna.c	ibe Fully. <sup>4</sup> dial Action Action Tak iven above o report ar acceptanc adequately OCD accep ulations.	n Taken.* is true and comp id/or file certain te of a C-141 rep investigate and n tance of a C-141	pletc to t release m ort by th remediat report d	he best of my otifications a e NMOCD m te contaminati toes not reliev Approved by Approval Dat Conditions of	knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of <u>OIL CON</u> Environmental S te: <u>ID/18/1</u> f Approval:	inderstan ctive acti leport" d eat to gr responsi SERV	OIL CO DE d that purs ons for rele oes not reli ound water bility for co ATION : :	uant to N asses white surface DIVIS	NMOCI ich main pperato water, ce with SION	ST. 3 D rules and y endanger r of Jiability human healt any other		
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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

November 30, 2017

Linn R. Wilson Petro Mex PO Box 6724 Farmington, NM TEL: (505) 485-5557 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OIL CONS. DIV DIST. 3 DEC 08 LOU

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 <u>www.hallenvironmental.com</u> 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,

andy

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.

**EPA METHOD 8015D: GASOLINE RANGE** 

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: BFB

<b>CLIENT:</b>	Petro Mex			<b>Client Sample</b>	e ID: SC1							
<b>Project:</b>	Dorothy #1		Collection Date: 11/17/2017 9:10:00 AM									
Lab ID:	1711A96-001	Matrix: SC	DIL	<b>Received I</b>	Date: 11/21/2	2017 7:10:00 AM						
Analyses		Result	PQL Qua	l Units	Date Analyzed							
EPA MET	HOD 8015M/D: DIESEL F	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: D	ONOP	95.8	70-130	%Rec	1	11/29/2017 12:03:26 PM						

4.9

15-316

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

ND

99.2

### PM Analyst: NSB

11/27/2017 12:15:11 PM

PM PM

1 11/27/2017 12:15:11 PM 1 11/27/2017 12:15:11 PM Analyst: NSB

1

1

1

1

1

#### Benzene ND 0.025 Toluene ND 0.049 Ethylbenzene ND 0.049 Xylenes, Total ND 0.098 Surr: 4-Bromofluorobenzene 98.4 80-120

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

Qualifiers:

\*

- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 7 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

**Analytical Report** 

#### Lab Order 1711A96

Date Reported: 11/30/2017

11/27/2017 12:38:36 PM

11/27/2017 12:38:36 PM

11/27/2017 12:38:36 PM

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Petro Mex			Client Sample	ID: SC2						
<b>Project:</b> Dorothy #1			<b>Collection</b>	ate: 11/17/	2017 9:20:00 AM					
Lab ID: 1711A96-002	Matrix:	SOIL	Received D	Received Date: 11/21/2017 7:10:00 AM						
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed					
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	5			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 RA	NGE				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					

0.049

0.098

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

ND

ND

98.1

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

#### Qualifiers:

\*

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 7 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

**Analytical Report** Lab Order 1711A96

Date Reported: 11/30/2017

11/27/2017 1:01:54 PM

Analyst: NSB

### Hall Environmental Analysis Laboratory, Inc.

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

<b>CLIENT:</b>	Petro Mex			<b>Client Sample</b>	ID: SC3	
<b>Project:</b>	Dorothy #1			<b>Collection D</b>	ate: 11/17/2	2017 10:02:00 AM
Lab ID:	1711A96-003	Matrix: S	SOIL	Received D	ate: 11/21/2	2017 7:10:00 AM
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed
EPA MET	HOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: TOM
Diesel Ra	ange 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: D	DNOP	102	70-130	%Rec	1	11/29/2017 12:25:23 PM
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst: NSB

4.7

15-316

0.024

0.047

0.047

0.095

80-120

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

ND

103

ND

ND

ND

ND

89.6

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

Ouali	ifie	rs:
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\*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 7 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall	Environmental	Analysis	Labo	ratory,	Inc.
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WO#: 1711A96

30-Nov-17

Client:	Petro Mer	x									
Project:	Dorothy #	ŧ1									
Sample ID	LCS-35179	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	LCSS	Batch II	): 35	179	F	RunNo: 4	7353				
Prep Date:	11/28/2017	Analysis Date	e: 1	1/28/2017	5	SeqNo: 1	510946	Units: %Re	C		
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	SampTyp	e: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	PBS	Batch II	): 35	179	F	RunNo: 4	7353				
Prep Date:	11/28/2017	Analysis Date	e: 1	1/28/2017	S	SeqNo: 1	510947	Units: %Re	C		
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	SampTyp	e: LC	CS	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	LCSS	Batch II	): 35	5149	F	RunNo: 4	7353				
Prep Date:	11/27/2017	Analysis Date	e: 1	1/28/2017	5	SeqNo: 1	511452	Units: mg/k	g		
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	SampTyp	e: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	PBS	Batch II	): <b>35</b>	149	F	RunNo: 4	7353				
Prep Date:	11/27/2017	Analysis Date	e: 1	1/28/2017	S	SeqNo: 1	511453	Units: mg/M	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Surr: DNOP	ge Organics (MRO)	ND 8.9	50	10.00		894	70	130			
		0.0		10.00		00.4	10	100			
Sample ID	1711C52-001AMS	SampTyp	e: MS	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	BatchQC	Batch II	): 35	5179	F	RunNo: 4	7353				
Prep Date:	11/28/2017	Analysis Date	e: 1	1/28/2017	5	SeqNo: 1	511922	Units: %Re	C		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.4	_	4.912		90.0	70	130			
Sample ID	1711C52-001AMS	D SampTyp	e: MS	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	BatchQC	Batch II	): 35	179	F	RunNo: 4	7353				
Prep Date:	11/28/2017	Analysis Date	e: 1	1/28/2017	5	SeqNo: 1	511923	Units: %Re	C		
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 Quanitative 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

Page 4 of 7

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory

WO#: 1711A96

30-Nov-17

Hall Environment	al Analysis	Laboratory, Inc.
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Client: Petro Mex Project: Dorothy #1

Sample ID LCS-35209 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 47389 Client ID: LCSS Batch ID: 35209 Prep Date: 11/29/2017 Analysis Date: 11/29/2017 SeqNo: 1512108 Units: %Rec SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 5.000 Surr: DNOP 4.4 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 10.00 91.0 Surr: DNOP 9.1 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 SPK value SPK Ref Val %REC LowLimit Analyte Result PQL 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 Result PQL SPK value SPK Ref Val %REC %RPD Analyte LowLimit HighLimit **RPDLimit** Qual Surr: DNOP 4.4 4.836 90.4 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 Quanitative 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

Page 5 of 7

WO#: 1711A96

Page 6 of 7

30-Nov-17

Hall Environmental Analysis Laboratory, Inc.

**Client: Project:** 

Petro Mex Dorothy #1

Sample ID MB-35	130 Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8015D: Gas	oline Rang	e	
Client ID: PBS	Bate	ch ID: 35	130	R	unNo: 4	7349				
Prep Date: 11/22	Analysis	Date: 1	1/27/2017	S	eqNo: 1	510598	Units: mg/l	Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	x (GRO) ND	5.0								
Surr: BFB	1000		1000		101	15	316			
Sample ID LCS-3	5130 Samp	Type: LC	s	Tes	Code: El	PA Method	8015D: Gas	oline Rang	0	
Client ID: LCSS	Bate	ch ID: 35	130	F	RunNo: 4	7349				
Prep Date: 11/22	Analysis	Date: 1	1/27/2017	S	SeqNo: 1	510600	Units: mg/l	Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	x (GRO) 25	5.0	25.00	0	99.6	75.9	131			
Curry DED	1100		4000							
SUIT: BFB	1100		1000		113	15	316			
Sample ID 1711AS	94-002AMS Samp	Type: MS	1000 S	Tes	113 tCode: El	15 PA Method	316 8015D: Gas	oline Rang	e	
Sample ID 1711AS Client ID: Batch0	94-002AMS Samp QC Bate	Type: MS	5 130	Tes	tCode: El	15 PA Method 7349	316 8015D: Gase	oline Rang	6	
Sample ID 1711AS Client ID: Batch0 Prep Date: 11/22	24-002AMS Samp 2C Bate 2017 Analysis	Type: MS ch ID: 35 Date: 1	1000 S 130 1/27/2017	Tes F	tCode: El RunNo: 4 SeqNo: 1	15 PA Method 7349 510605	316 8015D: Gas Units: mg/l	oline Rang Kg	e	
Sample ID 1711AS Client ID: Batch Prep Date: 11/22 Analyte	24-002AMS Samp 2C Bate /2017 Analysis Result	Type: MS ch ID: 35 Date: 1' PQL	1000 S 130 1/27/2017 SPK value	Tes F S SPK Ref Val	113 tCode: El RunNo: 4 SeqNo: 1 %REC	15 PA Method 7349 510605 LowLimit	316 8015D: Gase Units: mg/l HighLimit	oline Rang Kg %RPD	e RPDLimit	Qual
Sample ID 1711AS Client ID: Batch Prep Date: 11/22 Analyte Gasoline Range Organic	24-002AMS Samp QC Bate /2017 Analysis Result xs (GRO) 22	Type: Ms ch ID: 35 Date: 1' PQL 4.6	1000 S 130 1/27/2017 SPK value 22.91	Tes F S SPK Ref Val 0	113 tCode: El RunNo: 4 SeqNo: 1 %REC 98.2	15 PA Method 7349 510605 LowLimit 77.8	316 8015D: Gase Units: mg/l HighLimit 128	oline Rang Kg %RPD	e RPDLimit	Qual
Sample ID 1711AS Client ID: Batch0 Prep Date: 11/22 Analyte Gasoline Range Organic Surr: BFB	24-002AMS Samp 2C Bate /2017 Analysis Result 25 (GRO) 22 1100	Type: MS ch ID: 35 Date: 1' PQL 4.6	1000 5 130 1/27/2017 SPK value 22.91 916.6	Tes F S SPK Ref Val 0	113 tCode: El RunNo: 4 SeqNo: 1 %REC 98.2 119	15 PA Method 7349 510605 LowLimit 77.8 15	316 8015D: Gase Units: mg/l HighLimit 128 316	oline Rang Kg %RPD	e RPDLimit	Qual
Sample ID 1711AS Client ID: Batch Prep Date: 11/22 Analyte Gasoline Range Organic Surr: BFB		Type: MS ch ID: 35 Date: 1' PQL 4.6	1000 5 130 1/27/2017 SPK value 22.91 916.6 5D	Tes F SPK Ref Val 0 Tes	113 tCode: El &unNo: 4 &REC 98.2 119 tCode: El	15 PA Method 7349 510605 LowLimit 77.8 15 PA Method	316 8015D: Gase Units: mg/l HighLimit 128 316 8015D: Gase	oline Rang Kg %RPD oline Rang	e RPDLimit	Qual
Surr: BFB Sample ID 1711AS Client ID: Batch0 Prep Date: 11/22 Analyte Gasoline Range Organic Surr: BFB Sample ID 1711AS Client ID: Batch0	P4-002AMS         Samp           QC         Bate           /2017         Analysis           Result         Result           \stack         1100           94-002AMSD         Samp           QC         Bate	Type: MS ch ID: 35 Date: 1' PQL 4.6 Type: MS ch ID: 35	1000 5 130 1/27/2017 SPK value 22.91 916.6 5D 130	Tes F SPK Ref Val 0 Tes F	113 tCode: El RunNo: 4 SeqNo: 1 %REC 98.2 119 tCode: El RunNo: 4	15 PA Method 7349 510605 LowLimit 77.8 15 PA Method 7349	316 8015D: Gase Units: mg/l HighLimit 128 316 8015D: Gase	oline Rang Kg %RPD oline Rang	e RPDLimit e	Qual
Sample ID 1711AS Client ID: Batch0 Prep Date: 11/22 Analyte Gasoline Range Organic Surr: BFB Sample ID 1711AS Client ID: Batch0 Prep Date: 11/22	P4-002AMS         Samp           QC         Bate           /2017         Analysis           Result         Result           25 (GRO)         22           1100         1100           94-002AMSD         Samp           QC         Bate           /2017         Analysis	Type: MS ch ID: 35 Date: 1' PQL 4.6 Type: MS ch ID: 35 Date: 1'	1000 S 130 1/27/2017 SPK value 22.91 916.6 SD 130 1/27/2017	Tes F SPK Ref Val 0 Tes F S	113 tCode: El RunNo: 4 SeqNo: 1 %REC 98.2 119 tCode: El RunNo: 4 SeqNo: 1	15 PA Method 7349 510605 LowLimit 77.8 15 PA Method 7349 510607	316 8015D: Gase Units: mg/l HighLimit 128 316 8015D: Gase Units: mg/l	oline Rang Kg %RPD oline Rang	e RPDLimit	Qual
Surr: BFB Sample ID 1711AS Client ID: Batch( Prep Date: 11/22 Analyte Gasoline Range Organic Surr: BFB Sample ID 1711AS Client ID: Batch( Prep Date: 11/22 Analyte	A4-002AMS Samp QC Bate /2017 Analysis Result rs (GRO) 22 1100 A4-002AMSD Samp QC Bate /2017 Analysis Result	Type: MS ch ID: 35 Date: 1' PQL 4.6 Type: MS ch ID: 35 Date: 1' PQL	1000 5 130 1/27/2017 SPK value 22.91 916.6 5D 130 1/27/2017 SPK value	Tes F SPK Ref Val 0 Tes SPK Ref Val	113 tCode: El RunNo: 4 SeqNo: 1 %REC 98.2 119 tCode: El RunNo: 4 SeqNo: 1 %REC	15 PA Method 7349 510605 LowLimit 77.8 15 PA Method 7349 510607 LowLimit	316 8015D: Gase Units: mg/l HighLimit 128 316 8015D: Gase Units: mg/l HighLimit	oline Rang Kg %RPD oline Rang Kg %RPD	e RPDLimit e RPDLimit	Qual
Surr: BFB Sample ID 1711AS Client ID: Batch( Prep Date: 11/22 Analyte Gasoline Range Organic Surr: BFB Sample ID 1711AS Client ID: Batch( Prep Date: 11/22 Analyte Gasoline Range Organic	P4-002AMS         Samp           QC         Bate           /2017         Analysis           Result         Result           rs (GRO)         22           1100         1100           94-002AMSD         Samp           QC         Bate           /2017         Analysis           QC         Bate           /2017         Analysis           Result         Result           rs (GRO)         23	Type: MS ch ID: 35 Date: 1' PQL 4.6 Type: MS ch ID: 35 Date: 1' PQL 4.7	1000 5 130 1/27/2017 SPK value 22.91 916.6 5D 130 1/27/2017 SPK value 23.56	Tes F SPK Ref Val 0 Tes SPK Ref Val 0	113 tCode: El &unNo: 4 %REC 98.2 119 tCode: El &unNo: 4 %REC 97.5	15 PA Method 7349 510605 LowLimit 77.8 15 PA Method 7349 510607 LowLimit 77.8	316 8015D: Gase Units: mg/l HighLimit 128 316 8015D: Gase Units: mg/l HighLimit 128	oline Rang %g %RPD oline Rang %g %RPD 2.13	e RPDLimit e RPDLimit 20	Qual

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range E
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

WO#: 1711A96

30-Nov-17

Client: Project:	Petro Mex Dorothy #	x \$1									
Sample ID	MB-35130	Samp	Туре: МЕ	BLK	Test	Code: EF	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batc	h ID: 35	130	R	unNo: 47	7349				
Prep Date:	11/22/2017	Analysis [	Date: 11	1/27/2017	S	eqNo: 1	510626	Units: mg/K	(g		
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-Brom	nofluorobenzene	1.0		1.000		100	80	120			
Sample ID	LCS-35130	Samp	Type: LC	S	Tes	Code: EF	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batc	h ID: 35	130	R	unNo: 47	7349				
Prep Date:	11/22/2017	Analysis [	Date: 11	1/27/2017	S	eqNo: 1	510627	Units: mg/K	(g		
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-Bron	nofluorobenzene	1.0		1.000		101	80	120			
Sample ID	1711A94-001AMS	Samp	Type: MS	3	Tes	Code: EF	PA Method	8021B: Volat	tiles		
Client ID:	BatchQC	Batc	h ID: 35	130	F	unNo: 47	7349				
Prep Date:	11/22/2017	Analysis [	Date: 11	1/27/2017	S	eqNo: 1	510629	Units: mg/k	(g		
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-Bron	nofluorobenzene	0.93		0.9560		97.1	80	120			
Sample ID	1711A94-001AMSE	Samp	Type: MS	D	Test	Code: EF	PA Method	8021B: Volat	tiles		
Client ID:	BatchQC	Batc	h ID: 35	130	R	unNo: 47	7349				
Prep Date:	11/22/2017	Analysis [	Date: 11	1/27/2017	S	eqNo: 1	510630	Units: mg/K	g		
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	
Ethylhonzono		0.00	0.040	0 9615	0	89.4	79.4	140	1.77	20	
Euryidenzene		0.86	0.048	0.3015	•						
Xylenes, Total		2.6	0.048	2.885	0	90.0	78.5	142	2.01	20	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J

- Р Sample pH Not In Range RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 7 of 7

HALL ENVIR ANAL LABO	RONMENTAL YSIS RATORY	Hall Environment Al TEL: 505-345-39 Website: www.	al Analysis Labora 4901 Hawkins buquerque, NM 87 75 FAX: 505-345-4 hallenvironmental.	tory s NE 7109 <b>Sam</b> 1107 com	ple Log-In Check Li	st
Client Name:	PETRO MEX	Work Order Number	er: 1711A96		RcptNo: 1	
Received By:	Anne Thome	11/21/2017 7:10:00 /	AM	anne Am	_	
Completed By:	Anne Thorne	11/21/2017 12:26:46	PM	Dan. H.		
Reviewed By:	DDS	11/21/1-	7			
Chain of Cus	stody					
1. Custody sea	als intact on sample bottle	es?	Yes	No 🗌	Not Present	
2. Is Chain of (	Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the	e sample delivered?		Courier			
<u>Log In</u>						
4. Was an atte	empt made to cool the sa	mples?	Yes 🗹	No 🗌	NA 🗌	
5. Were all sad	mples received at a temp	erature of >0° C to 6.0°C	Yes 🗹	No 🗌		
6. Sample(s) i	n proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sa	mple volume for indicate	d test(s)?	Yes 🗹	No 🗌		
8. Are samples	s (except VOA and ONG)	properly preserved?	Yes 🗸	No 🗌		
9. Was presen	vative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10. VOA vials h	ave zero headspace?		Yes	No 🗌	No VOA Vials	
11. Were any s	ample containers receive	d broken?	Yes	No 🗹	# of preserved	
12. Does paper (Note discre	work match bottle labels? pancies on chain of cust	ody)	Yes 🗹	No 🗌	for pH: (<2 or >12 unless	noted
3. Are matrices	s correctly identified on C	hain of Custody?	Yes 🗹	No 🗆	Adjusted?	
4. Is it clear wh	nat analyses were reques	ted?	Yes 🔽	No 🗌		
5. Were all hol (If no, notify	ding times able to be me customer for authorization	t? on.)	Yes 🗹	No 🗌	Checked by:	
pecial Hand	lling (if applicable)					
6. Was client n	otified of all discrepancie	s with this order?	Yes	No 🗌	NA 🗹	
Perso	n Notified:	Date				
By Wh	iom:	Via:		Phone   Fax		
Client	ang: Instructions:	ana mana ang kalaka ka kang kang kang kang kang kang kan	and the state of the second	Manager	LANG BURGER BROTANISTICS	
17. Additional n	emarks:					
8 Cooler Infe	rmation					
Cooler N	o Temp ºC Condition 1.2 Good	n Seal Intact Seal No Yes	Seal Date	Signed By		
				· · · · · ·		

il ula 2610 / Mu	11-20-17 4:08 Same	Date: Time: Relinquishe					11-17-17 10:02 Soil	11-17-17 9:20 Sail	11-17-17 9:10 Soil	Date Time Matrix	EDD (Type)	I NELAP I Other	Accreditation	Standard	QA/QC Package:	email or Fax#: / inn_win	Phone #: 505-78	FARMINGton A	Mailing Address: P.O.B.		Client: PETRO-MEX	Chain-of-Cu
hitled to Hall Englightmental may be sub-	Shiley	dby: Apjler					Sc 3	SC 2	SC1	Sample Request ID				Level 4 (Full Validation)		sen@ sisna. can	6-5557	M. 87499	× 6724			stody Record
ophrached a part of the	Received by:	Received by:					¥		Soz Jak	Container Type and #	Sample Tem	On Ice:	Sampler: L	Linni		Project Mana	Below	Project #:	Deet	Project Name	Standard	Turn-Around
ccredited Agboratorie	rhet	len .					4	-	NA	Preservative Type	perature:	XYes	m Ruib	Q Wilson		iger	SAMOE N.		Y #1	W.	B. Rush	Time:
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		~																			RY	
										Air Bubbles	6 (Y	or N	4)									



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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Er	vironmental Analy	ysis Labora	tory, Ir	1C.		Date	e Reported: 2/29/2012
CLIENT: Project:	Petromax c/o Souder, Mille Pit Closures	er and Associates	ŝ	C	Client Sample Collection D	e ID: Doroth Pate: 2/22/20	y NE 4' 012 9:57:00 AM
Lab ID:	1202827-002	Matrix:	SOIL		Received D	ate: 2/24/20	012 10:05:00 AM
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
EPA MET	HOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: JMP
Diesel Ra	ange Organics (DRO)	15,000	200		mg/Kg	20	2/27/2012 11:38:11 AM
Surr: D	DNOP	0	77.4-131	S	%REC	20	2/27/2012 11:38:11 AM
EPA MET	HOD 8015B: GASOLINE R	ANGE					Analyst: RAA
Gasoline	Range Organics (GRO)	ND	470		mg/Kg	100	2/28/2012 10:15:19 PM
Surr: B	BFB	98.1	69.7-121		%REC	100	2/28/2012 10:15:19 PM
EPA MET	HOD 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
Ethylbenz	zene	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

\*/X Value exceeds Maximum Contaminant Level

Е Value above quantitation range J

Analyte detected below quantitation limits R

RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

**Analytical Report** Lab Order 1202827

ND Not Detected at the Reporting Limit

RL. Reporting Detection Limit

Page 2 of 12

Hall E	nvironmental	Analysis	Laboratory.	Inc.
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Analytical Report Lab Order 1202827 Date Reported: 2/29/2012

CLIENT:	Petromax c/o Souder, Mille	er and Associates		Client Sample	ID: Bob ar	nd Blanche 5 Point
<b>Project:</b>	Pit Closures			<b>Collection D</b>	ate: 2/22/20	012 10:10:00 AM
Lab ID:	1202827-004	Matrix:	SOIL	Received D	ate: 2/24/20	012 10:05:00 AM
Analyses		Result	RL Qu	al Units	DF	Date Analyzed
EPA MET	HOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Ra	ange Organics (DRO)	ND	10	mg/Kg	1	2/25/2012 5:58:51 PM
Surr: D	DNOP	89.4	77.4-131	%REC	1	2/25/2012 5:58:51 PM
EPA MET	HOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline	Range Organics (GRO)	ND	4.6	mg/Kg	1	2/28/2012 11:41:36 PM
Surr: E	BFB	95.5	69.7-121	%REC	1	2/28/2012 11:41:36 PM
EPA MET	HOD 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
Ethylben	zene	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 MET	HOD 300.0: ANIONS					Analyst: BRM
Chloride		84	30	mg/Kg	20	2/27/2012 3:13:52 PM
EPA MET	HOD 418.1: TPH					Analyst: JMP
Petroleur	n 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

RI. Reporting Detection Limit

Page 4 of 12

Hall Environmental Analy	ysis Labora	tory, In	ic.		Dat	e Reported: 2/29/2012
CLIENT: Petromax c/o Souder, Mille Project: Pit Closures	er and Associates		C	Client Sample Collection D	e ID: Kirtlan	d 18-1 5 Point 012 10:38:00 AM
Lab ID: 1202827-006	Matrix:	SOIL		Received D	ate: 2/24/20	012 10:05:00 AM
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE 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 R	ANGE					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		ma/Ka	100	2/29/2012

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\*/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

Analytical Report Lab Order 1202827

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 6 of 12

Hall Environmental Analysis Laboratory, Inc.

Client:	Petrom	ax c/o Souder, Miller and Asso	ciates
Project:	Pit Clos	sures	
Sample ID	LCS-857	SampType: LCS	TestCode: EPA Method 300.0: Anions

Client ID: LCSS	Batch ID: 85	7	R	RunNo: 11	147				
Prep Date: 2/27/2012	Analysis Date: 2	/27/2012	S	eqNo: 32	2718	Units: mg/K	g		
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

Page 8 of 12

1202827 29-Feb-12

WO#:

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1202827

29-Feb-12

Client: Project:	Petrom Pit Clo	ax c/o Soudo sures	er, Mille	er and Asso	ciates							
Sample ID	MB-842	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics		
Client ID:	PBS	Batch	h ID: 84	2	F	RunNo: 1	128					
Prep Date:	2/24/2012	Analysis D	Date: 2	25/2012	5	SeqNo: 3	1991	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range ( Surr: DNOP	Organics (DRO)	ND 9.1	10	10.00		91.4	77.4	131				
Sample ID	LCS-842	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015B: Diese	al Range C	Organics		
Client ID:	LCSS	Batch	n ID: 84	2	F	RunNo: 1	128					
Prep Date:	2/24/2012	Analysis D	)ate: 2/	25/2012	S	SeqNo: 3	1992	Units: mg/K	g			
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
- 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

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**Client:** 

Petromax c/o Souder, Miller and Associates

Project: Pit Clos	ures									
Sample ID MB-844	SampTyp	be: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch I	D: 84	4	F	RunNo: 1	157				
Prep Date: 2/24/2012	Analysis Dat	te: 2/	27/2012	S	eqNo: 3	3032	Units: mg/k	(g		
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	SampTyp	be: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch I	D: 84	4	R	RunNo: 1	157				
Prep Date: 2/24/2012	Analysis Dat	te: 2/	27/2012	S	eqNo: 3	3036	Units: mg/k	(g		
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

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29-Feb-12

1202827

WO#:

С	hain-	of-Cu	stody Record	Turn-Ar	ound	Time:											20			8.1°T		
Client:	Potr	n ma	v	X Star	ndard	C Rush			and a		F	1A		E					TE			V
de	0	1 det	·// ·/	Project	Name								AL			<b>9</b> L	AI	50	KA			I
Mailing	Address	ter, m	iller Hessociates	Pi	+ 0	losures						wwv	v.hal	lenv	ironi	ment	tal.co	m				
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Fo	irm.N	yton	NM 87401	Project	#: 101	5511		100.00	Te	el. 50	5-34	5-3	975	F	ax	505-	345	-410	7		Seattle Sector	
Phone #	#:	/	1	2	120	507					1997		A	naly	/sis	Req	ues					
email or	Fax#:	c mdy	19 ray @ souder miller	Project	Mana	ger:		1	luc	esel					04)	s			0	×		
QA/QC F	Package:		· Com	C	-yni	this or	ay	802	as c	s/Die					04,5	CB			8			
Stan	dard		Level 4 (Full Validation)				1	Ble (	D) F	Gas					2,P(	32 P			30			
	tation			Sample	r: Ak	oraham	Sotelo	THE REAL	TPF	5B (	3.1)	1.1)	Î		NON.	806						(N
	(Tupo)		JI	On Ice:	Tomi	K YES AND	D NO	E.	+ Ш	801	A18	504	PA	S	NO <sub>3</sub>	es /		AO/	SS			Y or
	(Type)_			oamhia	. rem			E	1TB	pol	poq	pou	A of	Aeta	,CI,I	ticid	(YO)	v-in	iel			SS (
Data	Timo	Matrix	Sample Request ID	Conta	iner	Preservative		4	2+	Meth	Met	Met	Nd)	8	s (F	Pes	S	(Ser	5			pple
Date	Time	IVIAUTA	Sample Request in	Type a	ind #	Туре	A CONTRACTOR OF A CONTRACT	E H	Ш Ш	H	H	DB (	310	CR	noir	181	E60E	012	4			L BU
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7/22/12	9:05	Soil	Dorothy Spoint	40	Z	Cool	-1	V.	-	V	V								1		_	
( )	9:57	()	Dorothy NE 4'			Cool	- 2	1		1												
11	10:00	11	Dorothy East Wall 5'			Cool	-3	V		1												
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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

April 13, 2012

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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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Er	nvironmental Analysis	Labora	tory, Inc.		Lat Dat	o Order 1204250 te Reported: 4/13/2012
CLIENT: Project:	Souder, Miller and Associates Pit Closures			Client Sample Collection D	e ID: Bob &	Blanche W Monitoring W 12 10:08:00 AM
Lab ID:	1204250-002	Matrix:	AQUEOUS	Received D	ate: 4/5/20	12 9:45:00 AM
Analyses		Result	RL Q	ual Units	DF	Date Analyzed
EPA MET	HOD 8260: VOLATILES SHORT	T 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
Ethylben	zene	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	I-Bromofluorobenzene	110	70-130	%REC	1	4/11/2012 2:04:35 PM
Surr: D	Dibromofluoromethane	92.6	69.8-130	%REC	1	4/11/2012 2:04:35 PM
Surr: T	oluene-d8	105	70-130	%REC	1	4/11/2012 2:04:35 PM

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\*/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

**Analytical Report** 

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 2 of 15

Hall E	nvironmental Analysis	Labora	ntory, Inc.		Lab	Order 1204250 Reported: 4/13/2012
CLIENT: Project: Lab ID:	Souder, Miller and Associates Pit Closures 1204250-004	Matrix:	AQUEOUS	Client Sampl Collection I Received I	e ID: Bob & 1 Date: 4/4/2012 Date: 4/5/2012	Blanche South Central #4 2 10:31:00 AM 2 9:45:00 AM
Analyses		Result	RL Qua	l Units	DF	Date Analyzed
EPA MET	HOD 8260: VOLATILES SHOR	T 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
Ethylben	zene	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	1,2-Dichloroethane-d4	95.4	70-130	%REC	1	4/11/2012 3:03:21 PM
Surr: 4	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: 1	Foluene-d8	102	70-130	%REC	1	4/11/2012 3:03:21 PM

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\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

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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

**Analytical Report** 

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 4 of 15

Hall Er	nvironmental Analysis	Labora	atory, Inc.		o Order 1204250 te Reported: 4/13/2012			
CLIENT: Project: Lab ID:	Souder, Miller and Associates Pit Closures 1204250-006	Matrix:	AQUEOUS	Client Sample ID: Dorothy #1 GW Grab Collection Date: 4/4/2012 8:50:00 AM Received Date: 4/5/2012 9:45:00 AM				
Analyses		Result	RL Qua	al Units	DF	Date Analyzed		
EPA MET	HOD 8260: VOLATILES SHOR	T 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		
Ethylben	zene	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	1,2-Dichloroethane-d4	97.7	70-130	%REC	1	4/11/2012 4:02:20 PM		
Surr: 4	4-Bromofluorobenzene	111	70-130	%REC	1	4/11/2012 4:02:20 PM		
Surr: D	Dibromofluoromethane	101	69.8-130	%REC	1	4/11/2012 4:02:20 PM		
Surr: T	Foluene-d8	100	70-130	%REC	1	4/11/2012 4:02:20 PM		

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\*/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

**Analytical Report** 

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 6 of 15

Hall El	nvironmental Analysis	Labora	itory, II	1c.		Dat	e Reported: 4/13/2012
CLIENT: Project:	Souder, Miller and Associates Pit Closures	Motrive	SOIL	C	Client Sample Collection I	e ID: Doroth Date: 4/4/20	y #1 South Well 5 pt. Co 12 9:08:00 AM
Analyses	1204230-008	Result	RL	Qual	Units	DF	Date Analyzed
EPA MET	THOD 8015B: DIESEL RANGE O	RGANICS					Analyst: JMP
Diesel R	ange 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 MET	HOD 8015B: GASOLINE RANG	E					Analyst: NSB
Gasoline	Range Organics (GRO)	310	250		mg/Kg	50	4/10/2012 7:20:20 PM
Surr: E	BFB	154	69.7-121	S	%REC	50	4/10/2012 7:20:20 PM
EPA MET	HOD 8021B: VOLATILES						Analyst: NSB
Benzene	1	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
Ethylben	zene	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	4-Bromofluorobenzene	98.9	80-120		%REC	50	4/10/2012 7:20:20 PM
EPA MET	HOD 418.1: TPH						Analyst: JMP
Petroleur	m Hydrocarbons, TR	19,000	400		ma/Ka	20	4/9/2012

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\*/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

Analytical Report Lab Order 1204250

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 8 of 15

Hall Ei	nvironmental Analysis	Labora	itory, li	nc.		Da	te Reported: 4/13/2012			
CLIENT:	Souder, Miller and Associates			C	lient Sample	ID: Kirtlar	nd 18-1 5 pt Comp			
Project:	Pit Closures	Collection D	Date: 4/4/2012 10:56:00 AM							
Lab ID:	1204250-010	Matrix:	SOIL		Received D	ate: 4/5/20	12 9:45:00 AM			
Analyses		Result	RL	Qual	Units	DF	Date Analyzed			
EPA MET	THOD 8015B: DIESEL RANGE C	RGANICS					Analyst: JMP			
Diesel R	ange 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 MET	HOD 8015B: GASOLINE RANG	E					Analyst: NSB			
Gasoline	Range Organics (GRO)	ND	97		mg/Kg	20	4/10/2012 8:17:54 PM			
Surr: E	BFB	103	69.7-121		%REC	20	4/10/2012 8:17:54 PM			
EPA MET	HOD 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			
Ethylben	zene	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	4-Bromofluorobenzene	96.1	80-120		%REC	20	4/10/2012 8:17:54 PM			
EPA MET	THOD 418.1: TPH						Analyst: JMP			
Petroleur	m Hydrocarbons, TR	3,000	200		mg/Kg	10	4/9/2012			

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\*/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

Analytical Report Lab Order 1204250

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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Surr: DNOP

### Hall Environmental Analysis Laboratory, Inc.

4.5

**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 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 10 Diesel Range Organics (DRO) ND 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 SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) 45 10 50.00 0 90.0 62.7 139

91.0

77.4

131

5.000

### Qualifiers:

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

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- H Holding times for preparation or analysis exceeded
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- RL Reporting Detection Limit

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WO#: 1204250 13-Apr-12

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### Hall Environmental Analysis Laboratory, Inc.

Client:	Souder, Miller and Associates
Project:	Pit Closures

Sample ID MB-1393	Samp	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batc	h ID: 13	93	F	RunNo: 2							
Prep Date: 4/5/2012	Analysis D	Date: 4/	9/2012	S	eqNo: 5	6126	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.050										
Denzene	ND	0.000										
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 Mat												
Sample ID LCS-1393	Samp	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Sample ID LCS-1393 Client ID: LCSS	SampT	ype: LC	S 93	Tesi	tCode: El	PA Method 013	8021B: Vola	tiles				
Sample ID LCS-1393 Client ID: LCSS Prep Date: 4/5/2012	Samp Batc Analysis [	Type: LC h ID: 13 Date: 4/	S 93 9/2012	Tes F S	tCode: El tunNo: 2 GeqNo: 5	PA Method 013 6127	8021B: Volat	tiles (g				
Sample ID LCS-1393 Client ID: LCSS Prep Date: 4/5/2012 Analyte	Samp Batc Analysis I Result	Type: LC h ID: 13 Date: 4/ PQL	S 93 9/2012 SPK value	Tes R S SPK Ref Val	Code: El RunNo: 2 GeqNo: 5 %REC	PA Method 013 6127 LowLimit	8021B: Volat Units: mg/K HighLimit	tiles (g %RPD	RPDLimit	Qual		
Sample ID LCS-1393 Client ID: LCSS Prep Date: 4/5/2012 Analyte Benzene	SampT Batcl Analysis I Result 1.0	Type: LC h ID: 13 Date: 4/ PQL 0.050	S 93 9/2012 SPK value 1.000	Tes R S SPK Ref Val 0	tCode: El tunNo: 2 GeqNo: 5 %REC 102	PA Method D13 6127 LowLimit 83.3	8021B: Volat Units: mg/k HighLimit 107	tiles (g %RPD	RPDLimit	Qual		
Sample ID LCS-1393 Client ID: LCSS Prep Date: 4/5/2012 Analyte Benzene Toluene	Samp Batcl Analysis D Result 1.0 1.0	Type: LC h ID: 13 Date: 4/ PQL 0.050 0.050	S 9/2012 SPK value 1.000 1.000	Tes F S SPK Ref Val 0 0	Code: El RunNo: 2 GeqNo: 5 %REC 102 105	PA Method 013 6127 LowLimit 83.3 74.3	8021B: Volar Units: mg/k HighLimit 107 115	tiles (g %RPD	RPDLimit	Qual		
Sample ID LCS-1393 Client ID: LCSS Prep Date: 4/5/2012 Analyte Benzene Toluene Ethylbenzene	Samp1 Batcl Analysis I Result 1.0 1.0 1.0	ype: LC h ID: 13 Date: 4/ PQL 0.050 0.050 0.050	S 9/2012 SPK value 1.000 1.000 1.000	Tes F S SPK Ref Val 0 0 0	Code: El RunNo: 2 GeqNo: 5 %REC 102 105 104	PA Method 013 6127 LowLimit 83.3 74.3 80.9	8021B: Volar Units: mg/M HighLimit 107 115 122	tiles (g %RPD	RPDLimit	Qual		
Sample ID LCS-1393 Client ID: LCSS Prep Date: 4/5/2012 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Samp1 Batcl Analysis I Result 1.0 1.0 1.0 3.2	Type: LC h ID: 13: Date: 4/ PQL 0.050 0.050 0.050 0.10	S 93 9/2012 SPK value 1.000 1.000 1.000 3.000	Tes F S SPK Ref Val 0 0 0 0 0	Code: El RunNo: 2 GeqNo: 5 %REC 102 105 104 105	PA Method 013 6127 LowLimit 83.3 74.3 80.9 85.2	8021B: Volar Units: mg/M HighLimit 107 115 122 123	tiles (g %RPD	RPDLimit	Qual		

\*/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

1204250 13-Apr-12

WO#:

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HALL Hall Environmental ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-3975 Website: www.ha	Analysis Laboratory 4901 Hawkins NE uquerque, NM 87105 5 FAX: 505-345-410; illenvironmental.com
Client Name: SMA-FARM	Vork Order Number: 1204250
Received by/date: 0405/12	
Logged By: Lindsay Mangin 4/5/2012 9:45:00 AM	July Hago
Completed By: Lindsay Mangin 4/5/2012 1:11:15 PM	( pouly Hings)
Reviewed By: FO Orfor (1)	
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 V # of preserved
<ol> <li>Does paperwork match bottle labels?</li> <li>(Note discrepancies on chain of custody)</li> </ol>	Yes V No bottles checked
14 Are matrices correctly identified on Chain of Custody?	Yes V No (<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes V No Adjusted?
16, Were all holding times able to be met? (If no, notify customer for authorization.)	Yes V No
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 S	Seal Date Signed By
1 4.9 Good Yes	
Page 1 of 1	

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Chain-of-Custody Record	Turn-Around	Time:							-								
Client: Potro max	Standard	B Rush						ALI NA		ST	5 I	AF	ы 30	RA	TC	AL	Y
ala S 1 M 11	Project Nam	e:					-										
Mailing Address:	- Pit	- Closur	° ?_5				W	ww.n	allen	viron	men	tal.co	om	400			
2101 San Juan BLvd.	Project #:			4901 Hawkins NE - Albuquerque, NM 87109					109								
Tarma, ton, N. M. 87401	FIOJECI#.	ICCH		Tel. 505-345-3975 Fax 505-345-4107					7		Constant of						
Phone #:	51.	1334		Analysis Requ					uest								
email or Fax#: Chidy. gray @ Souder Mill	Project Man	ager:		E	(ylu	sel				04)	0						
QA/QC Package:	in Ci	ndy G	ray	302	O SE	Die				4'S	B			×			
Standard D Level 4 (Full Validation		J	2	s (8	00	Bas				PO	PO			11			
Accreditation	Sampler:	Abroham	Sotelo	1	Hd	B (0	= ;	= =		NO2	3082			37			5
NELAP     Other	On Ice .	Yes	E No	17	+	015	18.	2 Z	0	03,1	s/8		(A)				or h
EDD (Type)	Sample Ten	iperature 4	19	Н	H	d 8(	4 bd		etals	N,N	ide	A	2-10	~			2
			a survey and the course provide a started	1	MT	tho	etho	NA	Me	Ц,	stic	NO/	emi	4			les
Date Time Matrix Sample Request ID	Container	Preservative	HEAL NO.	+ ×	+ ×	Me	N)		A 8	US	Ъ	B (	S) (S	6			ubt
	Type and #	type	1704750	STE	E E	H	H	310	CB	Inio	081	260	270	00			lir B
utille a's IL D Bob Blanche	+ 40ml	11 01	province and			-	FI		1	4		8	20	1	+	+	4
1 9/1219.35 M2U N Monthink Well	0007	Hg 2/2	-001	-		-		-	-	-				-	-+-	+	+
10:08 Wing tory Well	2		- 002					_	-					~		_	
10:20 Bob & Blanche #	5		- 003											1			
10:31 Bob; Blanche	1		-004											V			
10:38 Ve Bobi Blanche H			-005											1			
Willing george Dorothy #1	TY.		003					+						1	+	-	
14115 Bisy Borethy #1			-000			;/		+	+-	-	-			-	-	-	+
4/4/12 4:00 Soil NE Spt. Com	402	(02)	- 00.	1"		-	-	+-	+	-	-				-	-	+
9:08 South Wall Sota	7		-008	V		V	V	_		-					_	_	
9:35 Blanche BGT	amo		-009	V		i	1	_							_		
V 10:56 V Kritland 18-1 5 at (	mi	V	-010-	1	ſ	V	1										
	1		0														
Date: Time: Relinquished by:	Received by:		Date Time	Rer	narks	3:			-								
4-4-12 11:50 (24 (24 (24 (24 (24 (24 (24 (24 (24 (24	04	1S.	4-4-12 11:50		Ne	n	IRC	) 0	3	80	151	B	No	m	TB	E	
Date: Time: Relinquished by:	Received by:	1.	Date Time	1	~		1 -	1	da	15	6	m	1	C.	1		
4-4-12/11:71 QLAT	1Unnel.	Thorth (1) al 4/4/12 11-21					win	ia	00	13/	, 0	Uch	1	00	as		
If nerescan, campion bulwritted to Hall Environmental may be	TURAL	MNAU	es This serves be notice of this	s poeri	hility	Anver	h-contra	cted do	a will F	e clear	thy post-	ated or	the a	nalytica	I report		]
4/4/12 1710 Christie Welter	Under	& PPEn	2) 04105/12 00	943			e condo	0150 00		o o o o d d	.y nou			ally trota	- opon		

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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

April 30, 2012

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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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

OIL CONS. DIV DIST. 3

Hall Environmental Analysis	s Laborat	ory, Inc.		An Lat Dat	alytical Report Order 1204A57 e Reported: 4/30/2012
CLIENT: Souder, Miller and Associates Project: Petromax Pit Closures Lab ID: 1204A57 001	Matrice A		Client Sample Collection D	: <b>ID:</b> Doroth ate: 4/26/20	ny #1 012 10:45:00 AM
Analyses	Result	RL Que	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Chloride	20	0.50	mg/L	1	Analyst: BRM 4/27/2012 6:16:49 PM

Qualifiers:	
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\*/X Value exceeds Maximum Contaminant Level.E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

 $S \qquad Spike \ Recovery \ outside \ accepted \ recovery \ limits$ 

- 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

Page 1 of 2

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4.-

Hall Environmental Analysis Laboratory, Inc.

Client:Souder, Miller and AssociatesProject: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

1204A57

WO#:

30-Apr-12

Page 2 of 2

| ANALYSIS<br>LABORAT                                                                      | MENTAL<br>S<br>'ORY                                              | Hall Environmental Ar<br>Albuqı<br>TEL: 505-345-3975 F.<br>Website: www.halle | nalysis Lab<br>4901 Haw<br>uerque, NM<br>AX: 505-34<br>environmen | oratory<br>kins NE<br>1 87105<br>15-4107<br>tal.com | Samp              | ole Log-In    | Check List          |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|-------------------|---------------|---------------------|
| Client Name: S                                                                           | MA-FARM                                                          | Wc                                                                            | ork Order I                                                       | Number:                                             | 1204A57           |               |                     |
| Received by/date:                                                                        | AZ                                                               | 04/27/12                                                                      |                                                                   |                                                     |                   |               |                     |
| Logged By: A                                                                             | shley Gallegos                                                   | 4/27/2012 9:55:00 AM                                                          |                                                                   | ÷                                                   | F                 |               |                     |
| Completed By: A                                                                          | shiey Gallegos                                                   | 4/27/2012 10:59:48 AM                                                         |                                                                   | ÷                                                   | F                 |               |                     |
| Reviewed By:                                                                             | ma                                                               | oularin                                                                       |                                                                   |                                                     | ų                 |               |                     |
| Chain of Custor                                                                          |                                                                  | 0 90 910                                                                      |                                                                   |                                                     | `                 |               |                     |
| 1 Were seals inta                                                                        | <u>er</u><br>act?                                                |                                                                               | Yes                                                               | No                                                  | Not Pre           | esent 🗸       |                     |
| 2 Is Chain of Cus                                                                        | stody complete?                                                  |                                                                               | Yes 🗸                                                             | No                                                  | Not Pre           | esent         |                     |
| 3 How was the s                                                                          | ample delivered?                                                 |                                                                               | Courier                                                           |                                                     |                   |               |                     |
|                                                                                          |                                                                  |                                                                               |                                                                   |                                                     |                   |               |                     |
| <u>Log In</u>                                                                            |                                                                  |                                                                               |                                                                   |                                                     |                   |               |                     |
| 4. Coolers are pre                                                                       | esent? (see 19. for cooler                                       | specific information)                                                         | Yes 🗸                                                             | No                                                  |                   | NA            |                     |
| 5. Was an attemp                                                                         | ot made to cool the samp                                         | les?                                                                          | Yes 🔽                                                             | No                                                  |                   | NA            |                     |
| 6. Were all samp                                                                         | les received at a tempera                                        | lure of >0° C to 6.0°C                                                        | Yes 🗸                                                             | No                                                  |                   | NA            |                     |
| 7. Sample(s) in p                                                                        | roper container(s)?                                              |                                                                               | Yes                                                               | No 🗸                                                | -<br>Phuret       | > OFF INTO    | A 125mL PLASTI      |
| 8 Sufficient sam                                                                         | ble volume for indicated t                                       | est(s)?                                                                       | Yes 🗸                                                             | No                                                  | 10                |               | $\Delta I$          |
| 9. Are samples (e                                                                        | except VOA and ONG) pr                                           | operly preserved?                                                             | Yes 🗸                                                             | No                                                  |                   |               | A CAI               |
| 10. Was preservat                                                                        | ive added to bottles?                                            |                                                                               | Yes                                                               | No 🗸                                                |                   | NA            |                     |
|                                                                                          |                                                                  |                                                                               |                                                                   |                                                     |                   |               | $\cup$              |
| 11. VOA vials have                                                                       | a zero headspace?                                                |                                                                               | Yes                                                               | No                                                  | No VOA            | Vials 🗸       |                     |
| 12. Were any sam                                                                         | ple containers received b                                        | roken?                                                                        | Yes                                                               |                                                     | :<br>. <b>#</b> ( | of preserved  |                     |
| 13. Does paperwol<br>(Note discrepa                                                      | ncies on chain of custody                                        | /)                                                                            | tes 🗸                                                             | INU                                                 | bo                | ttles checked |                     |
| 14. Are matrices o                                                                       | orrectly identified on Cha                                       | ,<br>in of Custody?                                                           | Yes 🗸                                                             | No ·                                                |                   | (<2 α         | r >12 unless noted) |
| 15. Is it clear what                                                                     | analyses were requested                                          | 1?                                                                            | Yes 🗸                                                             | No                                                  | :                 | Adjusted?     |                     |
| 16. Were all holdin                                                                      | g times able to be met?                                          |                                                                               | Yes 🗸                                                             | No                                                  |                   |               |                     |
| (If no, notify cu                                                                        | stomer for authorization.                                        | )                                                                             |                                                                   |                                                     |                   | Checked by:   |                     |
|                                                                                          | g (if applicable)                                                |                                                                               |                                                                   |                                                     |                   |               |                     |
| Special Handlin                                                                          |                                                                  |                                                                               | Yes                                                               | No                                                  |                   | NA 🗸          |                     |
| Special Handlin<br>17. Was client noti                                                   | fied of all discrepancies i                                      | with this order?                                                              |                                                                   |                                                     |                   |               |                     |
| <b>Special Handlin</b><br>17. Was client noti<br>Person N                                | fied of all discrepancies v                                      | with this order?                                                              | <u></u>                                                           |                                                     | <u></u>           |               |                     |
| <b>Special Handlin</b><br>17. Was client noti<br>Person N<br>By Whom                     | fied of all discrepancies v<br>otified:                          | Date:                                                                         | i eMail                                                           | Phon                                                | e Fax             | In Person     |                     |
| <b>Special Handlin</b><br>17. Was client noti<br>Person N<br>By Whom<br>Regarding        | fied of all discrepancies v<br>otified:                          | Via:                                                                          | : eMail                                                           | Phon                                                | e Fax             | In Person     |                     |
| Special Handlin<br>17. Was client noti<br>Person N<br>By Whom<br>Regarding<br>Client Ins | fied of all discrepancies v<br>otified:<br>:<br>g:<br>tructions: | Date:                                                                         | : eMail                                                           | Phon                                                | e Fax             | In Person     |                     |

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| С                  | hain             | of-Cu      | stody Record                                        | Tum-Around              | Time:                | · · · · · · · · · · · · · · · · · · · |                                    |           |            |            |             |               | ENTAL (     |                                   |             |            |             |        |         |          |             |
|--------------------|------------------|------------|-----------------------------------------------------|-------------------------|----------------------|---------------------------------------|------------------------------------|-----------|------------|------------|-------------|---------------|-------------|-----------------------------------|-------------|------------|-------------|--------|---------|----------|-------------|
| Client:            | ( n              | 114        |                                                     | I ⊅Í Standard           | ⊓ Rush               | h                                     |                                    |           | E.         |            |             | ╘┠╴<br>┓╻╵    | El<br>Vg    | N V<br>2 T 6                      | /1F<br>2    |            | N I<br>20   |        |         | AL<br>DV | <b>y</b>    |
| (                  | <u>n (</u>       | <u>A</u> ( | <u>_, _</u> , <u>, u</u> <u>u</u> <u>v</u> <u>v</u> | Project Name            | ə:                   | ·                                     | 1 6                                |           |            | -          |             |               |             |                                   | 7 L         |            |             |        |         | RI       |             |
| Mailing            | Address          | 210        | 1 San Juan Blod                                     | Petron                  | nax Pit              | - Closures                            |                                    | 49        | 01 H       | awki       | www<br>ns N | '.naii<br>E - | envi<br>Alb | ironi<br>uque                     | men<br>erqu | e, Ni      | om<br>M 87  | 109    |         |          |             |
| <u>_</u>           | Fo               | iming      | ton, NM                                             | Project #:              |                      |                                       | Tel. 505-345-3975 Fax 505-345-4107 |           |            |            |             |               |             |                                   |             |            |             |        |         |          |             |
| Phone #            | #: 57            | 05-3       | 25-7535                                             |                         |                      |                                       | Analysis Request                   |           |            |            |             |               |             |                                   |             |            |             |        |         |          |             |
| email or           | r Fax#:          |            |                                                     | Project Mana            | iger:                |                                       |                                    |           |            |            |             |               |             |                                   |             |            |             | Γ      |         |          |             |
|                    | Package:<br>dard |            | Level 4 (Full Validation)                           | C,                      | Gray                 |                                       | s (8021                            | (Gas of   | as/Die     |            |             |               |             | PO4,SC                            | PCB's       |            |             | -i/de- |         |          |             |
|                    | tation<br>AP     | Othe       | r                                                   | Sampler: A              | braham.              | Sotelo                                | + TMB                              | + TPH     | 15B (G     | 18.1)      | 04.1)       | AH)           |             | 0 <sub>3</sub> ,NO <sub>2</sub> , | / 8082      |            | A)          | h lou  |         |          | N)          |
|                    | (Type)           | ·          |                                                     | Samplehiem              | and the second       |                                       | ВШ                                 | ВШ        | 8          | 4          | d<br>D      | <u>م</u>      | tals        | ž                                 | ides        | 2          | Ş           | ပ      |         |          | ž           |
| Date               | Time             | Matrix     | Sample Request ID                                   | Container<br>Type and # | Preservative<br>Type |                                       | BTEX + MT                          | BTEX + MT | TPH Method | TPH (Metho | EDB (Metho  | 8310 (PNA     | RCRA 8 Me   | Anions (F,C                       | 8081 Pestic | 8260B (VO/ | 8270 (Semi- | Total  |         |          | Air Bubbles |
| 4/26/12            | 10:40            | Ho         | Dorothy #1                                          | 40 ml                   | Aone                 | -00                                   |                                    |           |            | _          |             |               |             | _                                 |             |            |             | X      |         | 1        | T .         |
| 4 <del>2-11-</del> |                  | 1.2.       | /                                                   |                         | 7                    |                                       |                                    |           |            |            | -+          |               |             |                                   |             |            |             |        |         |          | t           |
|                    |                  |            |                                                     |                         | ·                    |                                       |                                    |           |            |            | +           |               | -           |                                   |             |            |             |        |         | +        | ╆-          |
|                    |                  |            |                                                     |                         |                      |                                       |                                    |           |            |            |             | -             | -           |                                   |             |            |             |        |         |          | ┢           |
|                    |                  |            |                                                     |                         |                      |                                       |                                    |           |            |            |             |               | -           |                                   |             |            |             |        |         |          | ┢╴          |
|                    |                  |            |                                                     |                         |                      |                                       |                                    |           |            |            | _           |               | -           | _                                 |             |            |             |        |         | +-       | ╂           |
|                    |                  |            |                                                     |                         |                      |                                       |                                    |           |            |            |             |               |             |                                   |             |            |             |        |         | +        | ┢           |
|                    |                  |            |                                                     |                         |                      |                                       | <b>_</b>                           |           |            |            |             |               |             |                                   |             |            |             |        |         |          | _           |
|                    |                  |            | · · · · · · · · · · · · · · · · · · ·               |                         |                      |                                       |                                    |           |            |            | _           | _             | _           |                                   |             |            |             |        |         | _        | <b>_</b>    |
|                    |                  |            |                                                     |                         |                      |                                       |                                    |           | _          |            |             |               |             |                                   |             |            |             |        | $\perp$ |          | Ļ           |
|                    |                  |            |                                                     |                         |                      |                                       |                                    |           | _          |            | _           |               |             |                                   |             |            |             |        |         |          | L.          |
|                    |                  |            |                                                     |                         |                      |                                       |                                    |           |            |            | _           |               |             |                                   |             |            |             |        |         |          | L           |
|                    |                  |            |                                                     |                         |                      |                                       |                                    |           |            |            |             |               |             |                                   |             |            |             |        |         |          | L           |
| Date:<br>7/26/12   | Time:<br>∦¦00    | Relinquish | ad by:<br>Abulan Sten                               | Received by:<br>Denny 1 | Foust                | Date Time<br>4/26/12 1.4.4            | Ren<br>2                           | narks     | S:         |            | _           |               |             |                                   |             |            |             | ·      |         |          |             |
| Daté:              |                  | Relinquish | ed by:<br>Empfort                                   | Received by:            | Walte                | Date Time                             | ]                                  |           |            |            |             |               |             |                                   |             |            |             |        |         |          |             |
|                    |                  |            |                                                     | I IV MANY               |                      |                                       | ·                                  |           |            |            |             |               |             |                                   |             |            |             |        |         |          | —           |



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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

OIL CONS. DIV DIST. 3 NOV 07 2017

| Hall Environmental Analysis                                                          | Labora       | atory, Ir | nc.                                           |                                                   | An<br>Lat<br>Dat | alytical Report<br>Order 1205222<br>Reported: 5/15/2012 |
|--------------------------------------------------------------------------------------|--------------|-----------|-----------------------------------------------|---------------------------------------------------|------------------|---------------------------------------------------------|
| CLIENT: Souder, Miller and AssociatesProject:Petromax Pit ClosuresLab ID:1205222-001 | Matrix:      | SOIL      | e ID: E. Sou<br>Date: 4/30/20<br>Date: 5/3/20 | th Wall 2 Pt.<br>012 9:00:00 AM<br>12 10:00:00 AM |                  |                                                         |
| Analyses                                                                             | Result       | RL        | Qual                                          | Units                                             | DF               | Date Analyzed                                           |
| EPA METHOD 8015B: DIESEL RANGE C                                                     | RGANICS      |           |                                               |                                                   |                  | 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                                     |
| Sur: DNOP                                                                            | 0            | 77.4-131  | S                                             | %REC                                              | 50               | 5/7/2012 2:28:38 PM                                     |
| EPA METHOD 8015B: GASOLINE RANG                                                      | E            |           |                                               |                                                   |                  | 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                                                           | <b>92</b> .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                                                |

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\*/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

Page 1 of 6

| Hall | <b>Environmental</b> | Analysis | Laboratory, | Inc. |
|------|----------------------|----------|-------------|------|
|      |                      | <b>.</b> |             |      |

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

CLIENT: Souder, Miller and Associates **Project:** Petromax Pit Closures

1205222-002

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Lab ID:

osures Matrix: SOIL Client Sample ID: W. South Wall 2 Pt Collection Date: 4/30/2012 9:30:00 AM Received Date: 5/3/2012 10:00:00 AM

| Analyses                       | Result   | RL Qu    | al 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 RAM | IGE      |          |          |    | Analyst: NSB         |
| Gasoline Range Organics (GRO)  | ND       | 4.9      | mg/Kg    | 1  | 5/7/2012 2:07:29 PM  |
| Sur: 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1205222

15-May-12

| Client:<br>Project: | Souder, Mille<br>Petromax Pit | r and Ass<br>Closures | ociat         | tes       |             |          |                   |             |      |                                              |      |
|---------------------|-------------------------------|-----------------------|---------------|-----------|-------------|----------|-------------------|-------------|------|----------------------------------------------|------|
| Sample ID MB-       | 1813                          | SampType              | : MB          | LK        | Tes         | Code: E  | PA Method         | 418.1: TPH  |      | <u>.                                    </u> |      |
| Client ID: PBS      | 6                             | Batch ID              | : 181         | 3         | R           | lunNo: 2 | 2592              |             |      |                                              |      |
| Prep Date: 5/4      | <b>/2012</b> Ana              | lysis Date            | : <b>5</b> /7 | 7/2012    | S           | eqNo: 7  | /2138             | Units: mg/K | g    |                                              |      |
| Analyte             | Re                            | sult P                | QL            | SPK value | SPK Ref Val | %REC     | LowLimit          | HighLimit   | %RPD | RPDLimit                                     | Quai |
| Petroleum Hydrocarb | ons, TR                       | ND                    | 20            |           |             |          |                   |             |      |                                              |      |
| Sample ID LCS       | -1813                         | SampType              | : LC          | s         | Test        | Code: E  | PA Method         | 418.1: TPH  |      |                                              |      |
| Client ID: LCS      | S                             | Batch ID              | : 181         | 3         | R           | lunNo: 2 | 2592              |             |      |                                              |      |
| Prep Date: 5/4      | / <b>2012</b> Ana             | lysis Date            | : 5/7         | 7/2012    | s           | ieqNo: 7 | 7213 <del>9</del> | Units: mg/K | g    |                                              | ĺ    |
| Analyte             | Re                            | sult P                | QL            | SPK value | SPK Ref Val | %REC     | LowLimit          | HighLimit   | %RPD | RPDLimit                                     | Qual |
| Petroleum Hydrocarb | ons, TR                       | 100                   | 20            | 100,0     | 0           | 99.6     | 87.8              | 115         |      |                                              |      |
| Sample ID LCS       | D-1813                        | SampType              | : LC          | SD        | Tes         | Code: E  | PA Method         | 418.1: TPH  |      |                                              |      |
| Client ID: LCS      | S02                           | Batch ID              | : 181         | 3         | R           | lunNo: 2 | 2592              |             |      |                                              |      |
| Prep Date: 5/4      | / <b>2012</b> Ana             | lysis Date            | : <b>5</b> /7 | 7/2012    | s           | ieqNo: 7 | 2140              | Units: mg/K | g    |                                              |      |
| Analyte             | Re                            | sult P                | QL            | SPK value | SPK Ref Val | %REC     | LowLimit          | HighLimit   | %RPD | RPDLimit                                     | Qual |
| Petroleum Hydrocarb | ons, 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

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**Client:** 

### Hall Environmental Analysis Laboratory, Inc.

Souder, Miller and Associates

Petromax Pit Closures **Project:** 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 SeaNo: 72244 Units: mg/Kg %REC SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Qual Analyte Result POL LowLimit Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Sur: DNOP 77.4 9.6 10.00 95.8 131 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 SegNo: 72245 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte Result PQL LowLimit **HighLimit** Diesel Range Organics (DRO) 50.00 38 10 75.5 62 7 139 Δ Sur: 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 LowLimit Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 37 49.60 9.9 Λ 73.9 57.2 146 Sur: 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 SPK value SPK Ref Val %REC %RPD RPDLimit Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 26.7 41 10 50.35 Ω 81.1 57.2 146 10.7 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

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15-May-12

1205222

WO#:

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WO#: 1205222

15-May-12

| Client:<br>Project: | Souder, N<br>Petromax | Ailler and A<br>Pit Closur | Associa<br>res  | ites      |             |          |           |                    |            |          |      |
|---------------------|-----------------------|----------------------------|-----------------|-----------|-------------|----------|-----------|--------------------|------------|----------|------|
| Sample ID           | MB-1810               | SampT                      | ype: ME         | BLK       | Tes         | tCode: E | PA Method | 8015B: Gas         | oline Rang | 0        |      |
| Client ID:          | PBS                   | Batch                      | n ID: 18        | 10        | F           | RunNo: 2 | 625       |                    |            |          |      |
| Prep Date:          | 5/4/2012              | Analysis D                 | ate: <b>5</b> / | 7/2012    | S           | eqNo: 7  | 3040      | Units: mg/l        | Kg         |          |      |
| Analyte             |                       | Result                     | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Gasoline Rang       | e Organics (GRO)      | ND                         | 5.0             |           |             |          |           |                    |            |          |      |
| Surr: BFB           |                       | 1,000                      |                 | 1,000     | _           | 103      | 69.7      | 121                |            |          |      |
| Sample ID           | LCS-1810              | SampT                      | ype: LC         | s         | Tes         | tCode: E | PA Method | 8015B: Gas         | oline Rang | 0        |      |
| Client 1D:          | LCSS                  | Batch                      | n ID: 18        | 10        | F           | RunNo: 2 | 625       |                    |            |          |      |
| Prep Date:          | 5/4/2012              | Analysis D                 | ate: <b>5</b> / | 7/2012    | S           | SeqNo: 7 | 3041      | Units: mg/l        | Kg         |          |      |
| Analyte             |                       | Result                     | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Gasoline Rang       | e 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        | SampT                      | ype: MS         | 3         | Tes         | tCode: E | PA Method | 8015B: Gas         | oline Rang | 0        |      |
| Client ID:          | BatchQC               | Batch                      | n ID: 18        | 10        | F           | RunNo: 2 | 625       |                    |            |          |      |
| Prep Date:          | 5/4/2012              | Analysis D                 | ate: <b>5</b> / | 7/2012    | 5           | SeqNo: 7 | 3043      | Units: <b>mg/l</b> | Kg         |          |      |
| Analyte             |                       | Result                     | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Gasoline Rang       | e Organics (GRO)      | 25                         | 4.9             | 24.63     | 0           | 100      | 85.4      | 147                |            |          |      |
| Sur: BFB            |                       | 1,100                      |                 | 985.2     |             | 110      | 69.7      | 121                |            |          |      |
| Sample ID           | 1205205-001AMS        | D SampT                    | ype: MS         | SD        | Tes         | tCode: E | PA Method | 8015B: Gase        | oline Rang | 0        |      |
| Client ID:          | BatchQC               | Batch                      | n ID: 18        | 10        | F           | RunNo: 2 | 625       |                    |            |          |      |
| Prep Date:          | 5/4/2012              | Analysis D                 | ate: <b>5</b> / | 7/2012    | S           | GeqNo: 7 | 3044      | Units: mg/l        | Kg         |          |      |
| Analyte             |                       | Result                     | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Gasoline Rang       | e 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.

Ε Value above quantitation range

- Analyte detected below quantitation limits j
- RPD outside accepted recovery limits R
- Analyte detected in the associated Method Blank В
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

**RL** Reporting Detection Limit

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# Hall Environmental Analysis Laboratory, Inc.

#### **Client:** Souder, Miller and Associates **Project:**

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Petromax Pit Closures

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------|------|
| Sample ID                                                                                                                                                                                                               | MB-1810                                                                                                                  | Samp                                                                                                                                                                                   | Type: ME                                                                                                                                                                                                                                                                                                                                                                             | BLK                                                                                                                                                      | Tes                                                                                                     | tCode: El                                                                                                                                              | PA Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8021B: Vola                                                                                                                                       | tiles                                                                                  |                                                      |      |
| Client ID:                                                                                                                                                                                                              | PBS                                                                                                                      | Batc                                                                                                                                                                                   | h ID: 18                                                                                                                                                                                                                                                                                                                                                                             | 10                                                                                                                                                       | F                                                                                                       | RunNo: 2                                                                                                                                               | 625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                   |                                                                                        |                                                      |      |
| Prep Date:                                                                                                                                                                                                              | 5/4/2012                                                                                                                 | Analysis [                                                                                                                                                                             | Date: <b>5/</b>                                                                                                                                                                                                                                                                                                                                                                      | 7/2012                                                                                                                                                   | 5                                                                                                       | SeqNo: 7                                                                                                                                               | 3104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Units: mg/l                                                                                                                                       | <g< td=""><td></td><td></td></g<>                                                      |                                                      |      |
| 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-Bron                                                                                                                                                                                                            | nofluorobenzene                                                                                                          | 0.94                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                      | 1.000                                                                                                                                                    |                                                                                                         | 94.0                                                                                                                                                   | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 120                                                                                                                                               |                                                                                        |                                                      |      |
| Sample ID                                                                                                                                                                                                               | LCS-1810                                                                                                                 | Samp                                                                                                                                                                                   | Type: LC                                                                                                                                                                                                                                                                                                                                                                             | s                                                                                                                                                        | Tes                                                                                                     | tCode: El                                                                                                                                              | PA Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8021B: Vola                                                                                                                                       | tiles                                                                                  |                                                      |      |
| Client ID:                                                                                                                                                                                                              | LCSS                                                                                                                     | Batc                                                                                                                                                                                   | h ID: 18                                                                                                                                                                                                                                                                                                                                                                             | 10                                                                                                                                                       | F                                                                                                       | RunNo: 2                                                                                                                                               | 625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                   |                                                                                        |                                                      |      |
| Prep Date:                                                                                                                                                                                                              | 5/4/2012                                                                                                                 | Analysis [                                                                                                                                                                             | Date: <b>5/</b>                                                                                                                                                                                                                                                                                                                                                                      | 7/2012                                                                                                                                                   | :                                                                                                       | SeqNo: 7                                                                                                                                               | 3105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Units: mg/l                                                                                                                                       | <g< td=""><td></td><td></td></g<>                                                      |                                                      |      |
| 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                                                                                                       | <b>97.0</b>                                                                                                                                            | 85.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 123                                                                                                                                               |                                                                                        |                                                      |      |
| Surr: 4-Bron                                                                                                                                                                                                            | nofluorobenzene                                                                                                          | 0.97                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                      | 1.000                                                                                                                                                    |                                                                                                         | 96.9                                                                                                                                                   | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 120                                                                                                                                               |                                                                                        |                                                      |      |
|                                                                                                                                                                                                                         |                                                                                                                          |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                          |                                                                                                         |                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                   |                                                                                        |                                                      |      |
| Sample ID                                                                                                                                                                                                               | 1205222-001AMS                                                                                                           | Samp                                                                                                                                                                                   | Type: MS                                                                                                                                                                                                                                                                                                                                                                             | 3                                                                                                                                                        | Tes                                                                                                     | tCode: El                                                                                                                                              | PA Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8021B: Vola                                                                                                                                       | tiles                                                                                  |                                                      |      |
| Sample ID<br>Client ID:                                                                                                                                                                                                 | 1205222-001AMS<br>E. South Wall 2 Pt                                                                                     | Samp<br>L. Batc                                                                                                                                                                        | Гуре: <b>М</b> \$<br>h ID: <b>18</b>                                                                                                                                                                                                                                                                                                                                                 | 5<br>10                                                                                                                                                  | Tes                                                                                                     | tCode: El                                                                                                                                              | PA Method<br>625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8021B: Vola                                                                                                                                       | tiles                                                                                  |                                                      |      |
| Sample ID<br>Client ID:<br>Prep Date:                                                                                                                                                                                   | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012                                                                         | Samp<br>L. Batc<br>Analysis [                                                                                                                                                          | Гуре: МS<br>h ID: 18<br>Date: 5/                                                                                                                                                                                                                                                                                                                                                     | 5<br>10<br>7/2012                                                                                                                                        | Tes                                                                                                     | tCode: El<br>RunNo: 20<br>SeqNo: 7                                                                                                                     | PA Method<br>625<br>3113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8021B: Vola<br>Units: mg/ł                                                                                                                        | tiles<br>(g                                                                            |                                                      |      |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte                                                                                                                                                                        | 1205222-001AMS<br>E. South Wall 2 Pt<br>5/4/2012                                                                         | Samp<br>L. Batc<br>Analysis [<br>Result                                                                                                                                                | Type: MS<br>h ID: 18<br>Date: 5/<br>PQL                                                                                                                                                                                                                                                                                                                                              | 7/2012<br>SPK value                                                                                                                                      | Tes<br>F<br>SPK Ref Val                                                                                 | itCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC                                                                                                             | PA Method<br>625<br>3113<br>LowLimit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8021B: Vola<br>Units: <b>mg/i</b><br>HighLimit                                                                                                    | tiles<br>(g<br>%RPD                                                                    | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene                                                                                                                                                             | 1205222-001AMS<br>E. South Wall 2 Pi<br>5/4/2012                                                                         | Samp<br>L. Batc<br>Analysis [<br>Result<br>0.76                                                                                                                                        | Type: MS<br>h ID: 18<br>Date: 5/<br>PQL<br>0.099                                                                                                                                                                                                                                                                                                                                     | 5<br>10<br>7/2012<br>SPK value<br>0.9901                                                                                                                 | Tes<br>F<br>SPK Ref Val<br>0                                                                            | tCode: El<br>RunNo: 2<br>SeqNo: 7:<br>%REC<br>77.1                                                                                                     | PA Method<br>625<br>3113<br>LowLimit<br>67.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113                                                                                                    | tiles<br><g<br>%RPD</g<br>                                                             | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene                                                                                                                                                  | 1205222-001AMS<br>E. South Wall 2 Pt<br>5/4/2012                                                                         | Samp<br>L. Batc<br>Analysis [<br>Result<br>0.76<br>0.79                                                                                                                                | Type: MS<br>h ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099                                                                                                                                                                                                                                                                                                                            | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901                                                                                                       | Tes<br>F<br>SPK Ref Val<br>0<br>0                                                                       | atCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>77.1<br>79.9                                                                                             | PA Method<br>625<br>3113<br>LowLimit<br>67.2<br>62.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116                                                                                             | tiles<br>(g<br>%RPD                                                                    | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene                                                                                                                                  | 1205222-001AMS<br>E. South Wall 2 Pt<br>5/4/2012                                                                         | Samp<br>L. Batc<br>Analysis [<br>Result<br>0.76<br>0.79<br>0.78                                                                                                                        | Type: MS<br>h ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099<br>0.099                                                                                                                                                                                                                                                                                                                   | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>0.9901                                                                                             | Tes<br>F<br>SPK Ref Val<br>0<br>0<br>0                                                                  | atCode: El<br>RunNo: 2<br>SeqNo: 7:<br>%REC<br>77.1<br>79.9<br>78.5                                                                                    | PA Method<br>625<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127                                                                                      | tiles<br>(g<br>%RPD                                                                    | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total                                                                                                                | 1205222-001AMS<br>E. South Wall 2 Pt<br>5/4/2012                                                                         | Samp<br>L. Batc<br>Analysis [<br>Result<br>0.76<br>0.79<br>0.78<br>2.3                                                                                                                 | Type: MS<br>h ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099<br>0.099<br>0.20                                                                                                                                                                                                                                                                                                           | <b>5</b><br><b>10</b><br><b>7/2012</b><br>SPK value<br>0.9901<br>0.9901<br>0.9901<br>2.970                                                               | Tes<br>F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0                                                        | Code: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>77.1<br>79.9<br>78.5<br>78.6                                                                               | PA Method<br>625<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127<br>134                                                                               | ttiles<br>(g<br>%RPD                                                                   | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Sur: 4-Bron                                                                                                 | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012                                                                         | Samp<br>L. Batc<br>Analysis I<br>Result<br>0.76<br>0.79<br>0.78<br>2.3<br>1.9                                                                                                          | Type: <b>MS</b><br>h ID: <b>18</b><br>Date: <b>5/</b><br>0.099<br>0.099<br>0.099<br>0.20                                                                                                                                                                                                                                                                                             | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>0.9901<br>2.970<br>1.980                                                                           | Tes<br>F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0                                                        | tCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>77.1<br>79.9<br>78.5<br>78.6<br>95.0                                                                      | PA Method<br>625<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127<br>134<br>120                                                                        | ttiles<br>(g<br>%RPD                                                                   | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Sur: 4-Bron<br>Sample ID                                                                                    | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012<br>nofluorobenzene<br>1205222-001AMSI                                   | Samp<br>L. Batc<br>Analysis I<br>Result<br>0.76<br>0.79<br>0.78<br>2.3<br>1.9<br>D. Samp                                                                                               | Fype: MS<br>h ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099<br>0.099<br>0.20<br>Type: MS                                                                                                                                                                                                                                                                                               | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>0.9901<br>2.970<br>1.980<br>SD                                                                     | Tes<br>F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>0<br>Tes                                            | tCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>77.1<br>79.9<br>78.5<br>78.6<br>95.0                                                                      | PA Method<br>525<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>PA Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127<br>134<br>120<br>8021B: Vola                                                         | tiles<br><g<br>%RPD<br/>tiles</g<br>                                                   | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID<br>Client ID:                                                                     | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012<br>nofluorobenzene<br>1205222-001AMSE<br>E. South Wall 2 Pr             | Samp<br>L. Batc<br>Analysis I<br>Result<br>0.76<br>0.79<br>0.78<br>2.3<br>1.9<br>D. Samp<br>L. Batc                                                                                    | Type: MS<br>h ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099<br>0.099<br>0.20<br>Type: MS<br>h ID: 18                                                                                                                                                                                                                                                                                   | 3<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>0.9901<br>2.970<br>1.980<br>3D<br>10                                                               | Tes<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes                                                           | tCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>77.1<br>79.9<br>78.5<br>78.6<br>95.0<br>tCode: El<br>RunNo: 2                                             | PA Method<br>625<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>PA Method<br>825                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127<br>134<br>120<br>8021B: Vola                                                         | tiles<br>(g<br>%RPD<br>tiles                                                           | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID<br>Client ID:<br>Prep Date:                                                       | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012<br>nofluorobenzene<br>1205222-001AMSE<br>E. South Wall 2 Pr<br>5/4/2012 | Samp<br>L. Batc<br>Analysis I<br>Result<br>0.76<br>0.79<br>0.78<br>2.3<br>1.9<br>D. Samp<br>L. Batc<br>Analysis I                                                                      | Fype: MS<br>b ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099<br>0.099<br>0.20<br>Fype: MS<br>b ID: 18<br>Date: 5/                                                                                                                                                                                                                                                                       | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>0.9901<br>2.970<br>1.980<br>5D<br>10<br>7/2012                                                     | Tes<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>f                                                 | tCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>77.1<br>79.9<br>78.5<br>78.6<br>95.0<br>tCode: El<br>RunNo: 2<br>SeqNo: 7                                 | PA Method<br>625<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>PA Method<br>825<br>3114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127<br>134<br>120<br>8021B: Vola<br>Units: mg/l                                          | tiles<br><g<br>%RPD<br/>tiles<br/><g< td=""><td>RPDLimit</td><td>Qual</td></g<></g<br> | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID<br>Client ID:<br>Prep Date:<br>Analyte                                            | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012<br>nofluorobenzene<br>1205222-001AMSI<br>E. South Wall 2 Pr<br>5/4/2012 | Samp<br>L. Batc<br>Analysis [<br>Result<br>0.76<br>0.79<br>0.78<br>2.3<br>1.9<br>D. Samp<br>L. Batc<br>Analysis [<br>Result                                                            | Fype: MS<br>h ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099<br>0.099<br>0.20<br>Type: MS<br>h ID: 18<br>Date: 5/<br>PQL                                                                                                                                                                                                                                                                | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>2.970<br>1.980<br>5D<br>10<br>7/2012<br>SPK value                                                  | Tes<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>F<br>SPK Ref Val                                       | tCode: El<br>RunNo: 2<br>%REC<br>77.1<br>79.9<br>78.5<br>78.6<br>95.0<br>tCode: El<br>RunNo: 2<br>SeqNo: 7:                                            | PA Method<br>525<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>PA Method<br>525<br>3114<br>LowLimit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8021B: Vola<br>Units: mg//<br>HighLimit<br>113<br>116<br>127<br>134<br>120<br>8021B: Vola<br>Units: mg//<br>HighLimit                             | tiles<br>(g<br>%RPD<br>tiles<br>(g<br>%RPD                                             | RPDLimit                                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene                                 | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012<br>nofluorobenzene<br>1205222-001AMSE<br>E. South Wall 2 Pr<br>5/4/2012 | Samp<br>L. Batc<br>Analysis [<br>Result<br>0.76<br>0.79<br>0.78<br>2.3<br>1.9<br>D. Samp<br>L. Batc<br>Analysis [<br>Result<br>0.75                                                    | Fype:         MS           Fype:         18           Date:         5/           PQL         0.099           0.099         0.099           0.099         0.20           Fype:         MS           MID:         18           Date:         5/           Date:         5/           Oate:         5/           Oate:         5/           Oate:         5/           Oate:         5/ | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>2.970<br>1.980<br>5D<br>10<br>7/2012<br>SPK value<br>0.9709                                        | Tes<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>SPK Ref Val<br>0                                       | tCode: El<br>RunNo: 2<br>SeqNo: 7<br>77.1<br>79.9<br>78.5<br>78.6<br>95.0<br>ttCode: El<br>RunNo: 2<br>SeqNo: 7<br>SeqNo: 7<br>%REC<br>76.9            | PA Method<br>525<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>PA Method<br>525<br>3114<br>LowLimit<br>67.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8021B: Vola<br>Units: mg/f<br>HighLimit<br>113<br>116<br>127<br>134<br>120<br>8021B: Vola<br>Units: mg/f<br>HighLimit<br>113                      | tiles<br>(g<br>%RPD<br>tiles<br>(g<br>%RPD<br>2.27                                     | RPDLimit<br>RPDLimit<br>14.3                         | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethytbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene                                   | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012<br>nofluorobenzene<br>1205222-001AMSI<br>E. South Wall 2 Pr<br>5/4/2012 | Samp<br>L. Batc<br>Analysis [<br>Result<br>0.76<br>0.79<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.75<br>0.77                        | Type: MS<br>h ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099<br>0.20<br>0.20<br>Type: MS<br>h ID: 18<br>Date: 5/<br>PQL<br>0.097<br>0.097                                                                                                                                                                                                                                               | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>2.970<br>1.980<br>5D<br>10<br>7/2012<br>SPK value<br>0.9709<br>0.9709<br>0.9709                    | Tes<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>SPK Ref Val<br>0<br>0                                  | tCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>77.1<br>79.9<br>78.5<br>78.6<br>95.0<br>tCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>76.9<br>79.5         | PA Method<br>525<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>PA Method<br>525<br>3114<br>LowLimit<br>67.2<br>62.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127<br>134<br>120<br>8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116               | tiles<br>(g<br>%RPD<br>tiles<br>(g<br>%RPD<br>2.27<br>2.53                             | RPDLimit<br>RPDLimit<br>14.3<br>15.9                 | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene                   | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012<br>nofluorobenzene<br>1205222-001AMSE<br>E. South Wall 2 Pr<br>5/4/2012 | Samp<br>L. Batc<br>Analysis [<br>Result<br>0.76<br>0.79<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.77<br>0.77  | Type: MS<br>b ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099<br>0.099<br>0.20<br>Type: MS<br>b ID: 18<br>Date: 5/<br>PQL<br>0.097<br>0.097<br>0.097                                                                                                                                                                                                                                     | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>2.970<br>1.980<br>5D<br>10<br>7/2012<br>SPK value<br>0.9709<br>0.9709<br>0.9709<br>0.9709          | Tes<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>SPK Ref Val<br>0<br>0<br>0<br>0                   | tCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>77.1<br>79.9<br>78.5<br>78.6<br>95.0<br>tCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>76.9<br>79.5<br>79.0 | PA Method<br>625<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>PA Method<br>625<br>3114<br>LowLimit<br>67.2<br>62.1<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>PA Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127<br>134<br>120<br>8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127        | tiles<br>(g<br>%RPD<br>tiles<br>(g<br>%RPD<br>2.27<br>2.53<br>1.33                     | RPDLimit<br>RPDLimit<br>14.3<br>15.9<br>14.4         | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total | 1205222-001AMS<br>E. South Wall 2 Pr<br>5/4/2012<br>nofluorobenzene<br>1205222-001AMSI<br>E. South Wall 2 Pr<br>5/4/2012 | Samp<br>Samp<br>L. Batc<br>Analysis I<br>Result<br>0.76<br>0.79<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.78<br>2.3<br>1.9<br>0.77<br>0.77<br>0.77<br>2.3 | Type: MS<br>b ID: 18<br>Date: 5/<br>PQL<br>0.099<br>0.099<br>0.099<br>0.20<br>Type: MS<br>b ID: 18<br>Date: 5/<br>PQL<br>0.097<br>0.097<br>0.097<br>0.097                                                                                                                                                                                                                            | 5<br>10<br>7/2012<br>SPK value<br>0.9901<br>0.9901<br>2.970<br>1.980<br>50<br>10<br>7/2012<br>SPK value<br>0.9709<br>0.9709<br>0.9709<br>0.9709<br>2.913 | Tes<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>0<br>5<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | tCode: El<br>RunNo: 2<br>SeqNo: 7<br>%REC<br>77.1<br>79.9<br>78.5<br>78.6<br>95.0<br>tCode: El<br>RunNo: 2<br>%REC<br>76.9<br>79.5<br>79.0<br>78.6     | PA Method<br>525<br>3113<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>PA Method<br>525<br>3114<br>LowLimit<br>67.2<br>62.1<br>67.9<br>60.6<br>80<br>Complete the second se | 8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127<br>134<br>120<br>8021B: Vola<br>Units: mg/l<br>HighLimit<br>113<br>116<br>127<br>134 | tiles<br>(g<br>%RPD<br>tiles<br>(g<br>%RPD<br>2.27<br>2.53<br>1.33<br>1.94             | RPDLimit<br>RPDLimit<br>14.3<br>15.9<br>14.4<br>12.6 | Qual |

### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Page 6 of 6

RL Reporting Detection Limit

1205222

WO#:

15-May-12

| Locaed By: Ashley Gallegos 5/3/2012 10:00:00 A                                            | M AT                                                   |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Completed By: Ashley Gallegos 5/3/2012 6:16:43 Pl                                         |                                                        |
| Reviewed By: 05/04/12                                                                     | 2 9                                                    |
| Chain of Custody                                                                          |                                                        |
| 1. Were seats intact?                                                                     | Yes 🗋 No 🗌 Not Present 🗹                               |
| 2. Is Chain of Custody complete?                                                          | Yes 🗹 No 🗌 Not Present 🗖                               |
| 3. How was the sample delivered?                                                          | Çourier                                                |
| <u>Log In</u>                                                                             |                                                        |
| 4. Coolers are present? (see 19. for cooler specific information)                         | Yes 🗹 No 🗌 🛛 NA 🗌                                      |
| 5. Was an attempt made to cool the samples?                                               |                                                        |
| 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?                                                    |                                                        |
| 11. VOA vials have zero headspace?                                                        | Yes 🗌 No 🛄 No VOA Vials 🗹                              |
| 12. Were any sample containers received broken?                                           |                                                        |
| 13. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)       | Yes V No H # of preserved<br>bottles checked<br>for pH |
| 14. Are matrices correctly identified on Chain of Custody?                                | Yes ☑ No □ (<2 or >12 unles                            |
| 15. Is it clear what analyses were requested?                                             | Yes 🗹 No 🗌 Adjusted?                                   |
| 16. Were all holding times able to be met?<br>(If no, notify customer for authorization.) | Yes 🗹 No 🗌<br>Checked by:                              |
| Special Handling (if applicable)                                                          |                                                        |
| 17. Was client notified of all discrepancies with this order?                             | Yes 🗌 No 🗌 🛛 NA 🗹                                      |

### 19. Cooler Information

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

\_ \_ \_

Page 1 of 1

| Ch                         | nain-                                | -of-Cı       | ustody Record             | Turn-Around                         | Time:                  | <u> </u> |              |            |               |            |                      |             |                   | -                 |                   |                    | •          |                                |             |            |   |               |
|----------------------------|--------------------------------------|--------------|---------------------------|-------------------------------------|------------------------|----------|--------------|------------|---------------|------------|----------------------|-------------|-------------------|-------------------|-------------------|--------------------|------------|--------------------------------|-------------|------------|---|---------------|
| Client:<br>CO<br>Mailing A | <u>e tro</u><br><u>Soc</u><br>dgress | max<br>nder, | Miller & Assoc.           | Standard<br>Project Name<br>Petro r | □ Rush<br>a:<br>Max P; | + clo    | 5ures        |            | 49(           |            | H<br>A<br>v<br>awkir |             | LL<br>AL<br>v.hal | LEI<br>YS<br>lenv | ironr             | <b>5 L</b><br>ment | AL<br>AL   | <b>BO</b><br>500<br>500<br>500 |             | N I<br>\TC |   | ,<br><b>Y</b> |
| Fa                         | ~~ ()                                | -ton         | VNAY DIVA                 | Project #:                          | 1004                   |          |              |            | Te            | l. 50      | 5-34                 | 5-39        | 975               | F                 | aqu.              | 505-               | 345        | -410 <sup>°</sup>              | 7           |            |   |               |
| Phone #:                   |                                      | /·           | 77                        | 5/2                                 |                        |          |              | _          |               |            |                      |             | A                 | naly              | /sis              | Req                | uest       | t                              |             | ŗ          |   |               |
| email or F                 | Fax#: «                              | Condy.       | gray O. Duder mille, OM   | Project Mana                        | iger:                  |          |              | <b>1</b> ) | (<br>Îu<br>Îu | esel       |                      |             | ĺ                 |                   | §0₄)              | s                  |            |                                |             |            |   |               |
| QA/QC Pa                   | ackage:<br>ard                       |              | Level 4 (Full Validation) | C.                                  | Gray                   |          |              | s (802     | (Gas          | as/Di      |                      |             |                   |                   | PO4,5             | PCB                |            |                                | <u>0</u> q~ | 5, 80      |   |               |
|                            | ation                                |              |                           | Sampler: /                          | Inn Wil                | son      | -            | TMB.       | TPH           | 5B (G      | (1)                  | <u> </u>    | Î                 |                   | NO <sub>2</sub> , | 8082               |            |                                | 9           | 30/0       |   | ź             |
|                            | r<br>Tvpe)                           |              | JI                        |                                     |                        |          |              | +<br>₩     | +<br>₩        | 801        | 1418                 | 150         | PA                | als               | S<br>NO           | les /              |            | /OA)                           | 202         | À          |   | ڈ<br>۲        |
| Date                       | Time                                 | Matrix       | Sample Request ID         | Container<br>Type and #             | Preservative<br>Type   |          |              | BTEX + MTB | BTEX + MTB    | TPH Method | TPH (Method          | EDB (Method | 8310 (PNA o       | RCRA 8 Met        | Anions (F,CI,     | 8081 Pesticic      | 8260B (VOA | 8270 (Semi-\                   | 8/5108      |            |   | Air Ruhhlas ( |
| 4/30/12 9                  | 9:00                                 | Soils        | E.SauthWall 2 st.         | 402                                 | C001                   |          | -001         |            |               | ijki       | 1                    |             |                   |                   |                   |                    |            |                                | /           |            |   | Ť             |
| 4/30/12 9                  | 7:30                                 | Sails        | W. South Wall 2pt.        | 402                                 | 0001                   |          | -002         |            |               |            |                      |             | _                 |                   |                   |                    |            |                                | 4           | $\square$  |   | -             |
|                            |                                      |              |                           | <u> </u>                            | · · ·                  |          |              |            |               | _          | $\rightarrow$        | _           | _                 | _                 | _                 | _                  |            |                                | ┢──┨        |            |   | +             |
|                            |                                      |              |                           |                                     |                        |          |              |            |               | $\neg$     | $\rightarrow$        |             |                   |                   |                   |                    |            |                                | ⊢┨          | -+         |   | +             |
|                            |                                      |              |                           |                                     |                        |          |              | ——         |               | -          |                      |             |                   | _                 |                   |                    |            |                                | ┟──┨        | -+         |   | +             |
|                            |                                      |              |                           |                                     |                        |          |              |            |               | -          |                      |             |                   |                   |                   |                    |            |                                | ┟╌──┨       |            | + |               |
|                            |                                      |              |                           |                                     | ·                      |          |              |            |               |            |                      |             |                   |                   |                   |                    |            |                                |             | -+         | + | +             |
|                            |                                      |              |                           |                                     |                        |          |              |            |               |            |                      |             |                   |                   |                   |                    |            |                                |             |            |   |               |
|                            |                                      |              |                           |                                     |                        |          |              |            |               |            |                      |             |                   |                   |                   |                    |            |                                |             |            |   | $\Box$        |
|                            |                                      |              |                           |                                     | ·                      |          |              |            |               |            |                      |             |                   |                   |                   |                    |            |                                | $\square$   |            |   | $\bot$        |
| Date: Ti                   | imo:                                 | Polinguish   | od by: A                  | Peoplised by:                       |                        | Dete     | Timo         |            |               |            |                      |             |                   |                   |                   |                    |            |                                |             |            |   |               |
| 4/30 /                     | 0:00                                 | Mb           | Le Sotelo                 | A to                                | 2                      | 4/30     | 10:00        | Ren        | nanks         | 5:         |                      |             |                   |                   |                   |                    |            |                                |             |            |   |               |
|                            | ime:<br>16 45                        | Refinquish   | ed by:                    | Received by:                        | Jate ,                 | Sh n     | Time<br>1645 |            |               |            |                      |             |                   |                   |                   |                    |            |                                |             |            |   |               |



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

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 <u>www.hallenvironmental.com</u> 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

OIL CONS. DIV DIST. 3 NOV 0 7 2017

|                                       |          |          |      |                     | An<br>Lat   | alytical Report        |
|---------------------------------------|----------|----------|------|---------------------|-------------|------------------------|
| Hall Environmental Analysis           | s Labora | tory, Ir | ıc.  |                     | Da          | te Reported: 8/28/2012 |
| CLIENT: Souder, Miller and Associates |          |          | C    | lient Sample        | ID: Doroth  | ny #1 five pt          |
| Project: Petro-Mex Dorothy #1         |          |          |      | <b>Collection D</b> | ate: 8/16/2 | 012 9:04:00 AM         |
| Lab ID: 1208860-001                   | Matrix:  | SOIL     |      | Received D          | ate: 8/17/2 | 012 10:00:00 AM        |
| Analyses                              | Result   | RL       | Qual | Units               | DF          | Date Analyzed          |
| EPA METHOD 8015B: DIESEL RANGE        | DRGANICS |          |      |                     |             | 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 RANG       | ε        |          |      |                     |             | Analyst: NSB           |
| Gasoline Range Organics (GRO)         | 37       | 4.7      |      | mg/Kg               | 1           | 8/22/2012 1:46:06 PM   |
| Sun: 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   |

- 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

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- 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 Page 1 of 6

| Hall Environmental Analysi            | s Labora | tory, Ir | ıc.  |                     | Da                | te Reported: 8/28/2012 |
|---------------------------------------|----------|----------|------|---------------------|-------------------|------------------------|
| CLIENT: Souder, Miller and Associates |          |          | C    | lient Sample        | <b>ID:</b> Doroth | ny #1 4' SE            |
| Project: Petro-Mex Dorothy #1         |          |          |      | <b>Collection</b> D | ate: 8/16/2       | 012 9:06:00 AM         |
| Lab ID: 1208860-002                   | Matrix:  | SOIL     |      | Received D          | ate: 8/17/2       | 012 10:00:00 AM        |
| Analyses                              | Result   | RL       | Qual | Units               | DF                | Date Analyzed          |
| EPA METHOD 8015B: DIESEL RANGE        | DRGANICS |          |      |                     |                   | 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  |
| Sur: DNOP                             | 0        | 77.6-140 | S    | %REC                | 20                | 8/23/2012 10:37:26 AM  |
| EPA METHOD 8015B: GASOLINE RANG       | θE       |          |      |                     |                   | Analyst: NSB           |
| Gasoline Range Organics (GRO)         | 49       | 46       |      | mg/Kg               | 10                | 8/22/2012 3:41:18 PM   |
| Sur: 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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Х Value exceeds Maximum Contaminant Level.

- Ε Value above quantitation range
- J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits Page 2 of 6 S

**Analytical Report** Lab Order 1208860

i.

Hall Environmental Analysis Laboratory, Inc.

| Client:SouderProject:Petro-N   | , Miller and<br>/lex Dorothy | Associa<br>/ #1 | ates      |             |          |           |             |            |          |      |
|--------------------------------|------------------------------|-----------------|-----------|-------------|----------|-----------|-------------|------------|----------|------|
| Sample ID MB-3438              | Samp                         | Type: Mi        | BLK       | Tes         | tCode: E | PA Method | 8015B: Dies | el Range ( | Organics |      |
| Client ID: PBS                 | Batc                         | h ID: 34        | 38        | F           | RunNo: 5 | 017       |             |            |          |      |
| Prep Date: 8/22/2012           | Analysis E                   | Date: 8         | /22/2012  | 5           | SeqNo: 1 | 42066     | Units: mg/H | ٢g         |          |      |
| 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             | Samp                         | ype: LC         | s         | Tes         | tCode: E | PA Method | 8015B: Dies | el Range ( | Organics |      |
| Client ID: LCSS                | Batc                         | h ID: 34        | 38        | F           | RunNo: 5 | 017       |             |            |          |      |
| Prep Date: 8/22/2012           | Analysis D                   | Date: 8         | /22/2012  | 5           | SeqNo: 1 | 42334     | Units: mg/H | 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

Page 3 of 6

1208860

28-Aug-12

WO#:

## Hall Environmental Analysis Laboratory, Inc.

Client:Souder, Miller and AssociatesProject: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 |
| Sur: 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

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1208860

WO#:

28-Aug-12

WO#: 1208860

RPDLimit

| Hall | Environm | ental An | nalysis l | Laborator | y, Inc. |
|------|----------|----------|-----------|-----------|---------|
|------|----------|----------|-----------|-----------|---------|

| Client: Soude<br>Project: Petro | er, Miller and<br>Mex Dorothy | Associa<br>/ #1 | ates      |             |          |           |             |             |
|---------------------------------|-------------------------------|-----------------|-----------|-------------|----------|-----------|-------------|-------------|
| Sample ID MB-3428               | Samp                          | Гуре: М         | BLK       | Tes         | tCode: E | PA Method | 8015B: Gasc | oline Range |
| Client ID: PBS                  | Batc                          | h ID: 34        | 28        | F           | RunNo: 5 | 025       |             |             |
| Prep Date: 8/21/2012            | Analysis [                    | Date: 8         | /22/2012  | S           | SegNo: 1 | 43036     | Units: mg/M | (g          |
| Analyte                         | Result                        | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD        |
| Gasoline Range Organics (GRO)   | ND                            | 5.0             |           |             |          |           |             |             |
| Sur: BFB                        | 970                           |                 | 1000      |             | 97.4     | 84        | 116         |             |
| Sample ID LCS-3428              | Sampl                         | Type: LC        | s         | Tes         | tCode: E | PA Method | 8015B: Gasc | oline Range |

| Client ID: LCSS               | Batch      | n ID: 34         | 28        | F           | RunNo: 5 | 025      |                    |      |          |      |  |
|-------------------------------|------------|------------------|-----------|-------------|----------|----------|--------------------|------|----------|------|--|
| Prep Date: 8/21/2012          | Analysis C | )ate: <b>8</b> / | 22/2012   | 5           | SegNo: 1 | 43037    | Units: <b>mg/k</b> | ٢g   |          |      |  |
| 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

Page 5 of 6

28-Aug-12

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# Hall Environmental Analysis Laboratory, Inc.

**Client:** Souder, Miller and Associates

| Project: Petro-N           | Mex Dorothy | / #1             |           |             |                  |           |                    |                                   |          |      |
|----------------------------|-------------|------------------|-----------|-------------|------------------|-----------|--------------------|-----------------------------------|----------|------|
| Sample ID MB-3428          | Samp        | Type: MI         | BLK       | Tes         | tCode: E         | PA Method | 8021B: Vola        | tiles                             |          |      |
| Client ID: PBS             | Batc        | h ID: 34         | 28        | F           | RunNo: 5         | 025       |                    |                                   |          |      |
| Prep Date: 8/21/2012       | Analysis [  | Date: <b>8</b> / | 22/2012   | 5           | SeqNo: 1         | 43050     | Units: <b>mg/l</b> | <g< th=""><th></th><th></th></g<> |          |      |
| 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         | Samp        | Гуре: LC         | s         | Tes         | tCode: E         | PA Method | 8021B: Vola        | tiles                             |          |      |
| Client ID: LCSS            | Batc        | h ID: 34         | 28        | F           | RunNo: 5         | 025       |                    |                                   |          |      |
| Prep Date: 8/21/2012       | Analysis [  | Date: 8/         | 22/2012   | 5           | SeqNo: 1         | 43051     | Units: mg/l        | <g< td=""><td></td><td></td></g<> |          |      |
| 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           | <b>98</b> .9     | 80        | 120                |                                   |          |      |
| Ethylbenzene               | 1.0         | 0.050            | 1.000     | 0           | <del>9</del> 9.7 | 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:

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

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

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1208860 28-Aug-12

WO#:

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY                                                            | Hall Environmental A<br>Albuq<br>TEL: 505-345-3975 F<br>Website: www.hall | Inalysis Laborato<br>4901 Hawkins N<br>juerque, NM 8714<br>FAX: 505-345-41<br>lenvironmental.co | <sup>r5</sup><br><sup>7<u>6</u><br/>05<br/>07<br/>777</sup> | mple Log-In C              | Check List       |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------|------------------|
| Client Name: SMA-FARM                                                                                      | of f: W                                                                   | ork Order Numb                                                                                  | er: 12088                                                   | 60                         |                  |
| Received by/date: MLG-C                                                                                    | 8/17/12                                                                   |                                                                                                 |                                                             |                            |                  |
| Logged By: Anne Thome                                                                                      | 8/17/2012 10:00:00 AM                                                     |                                                                                                 | am In                                                       |                            |                  |
| Completed By: Anne Thome                                                                                   | 8/21/2012                                                                 |                                                                                                 | Anna Al-                                                    | _                          |                  |
| Reviewed By: A OR 21/2                                                                                     | -                                                                         |                                                                                                 |                                                             |                            |                  |
| Chain of Custody                                                                                           |                                                                           |                                                                                                 |                                                             |                            |                  |
| 1. Were seals intact?                                                                                      |                                                                           | Yes 🗋 No                                                                                        |                                                             | Present                    |                  |
| 2. Is Chain of Custody complete?                                                                           |                                                                           | Yes 🗹 No                                                                                        | Not                                                         | Present                    |                  |
| 3. How was the sample delivered?                                                                           |                                                                           | <u>Courier</u>                                                                                  |                                                             |                            |                  |
| Log In                                                                                                     |                                                                           |                                                                                                 |                                                             |                            |                  |
| 4. Coolers are present? (see 19. for cooler sp                                                             | ecific information)                                                       | Yes 🗹 No                                                                                        |                                                             | NA                         |                  |
| 5. Was an attempt made to cool the samples                                                                 | ?                                                                         | Yes 🗹 No                                                                                        |                                                             | NA 🗌                       |                  |
| 6. Were all samples received at a temperatur                                                               | reof ≻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) prop                                                                   | erly preserved?                                                           | Yes 🗹 No                                                                                        |                                                             |                            |                  |
| 10. Was preservative added to bottles?                                                                     |                                                                           | Yes 📙 No                                                                                        |                                                             | NA 🗆                       |                  |
| 11, VOA vials have zero headspace?                                                                         |                                                                           | Yes 🗌 No                                                                                        |                                                             | DA Viais 🗹                 |                  |
| 12. Were any sample containers received brok                                                               | ken?                                                                      | Yes 🛄 No                                                                                        |                                                             | thef amagazied             |                  |
| <ol> <li>13. Does paperwork match bottle labels?<br/>(Note discrepancies on chain of custody)</li> </ol>   |                                                                           | Yes 🗹 No                                                                                        |                                                             | bottles checked<br>for pH: |                  |
| 14. Are matrices correctly identified on Chain of                                                          | of Custody?                                                               | Yes 🗹 No                                                                                        |                                                             | (<2 or >                   | 12 unless noted) |
| 15. Is it clear what analyses were requested?                                                              |                                                                           | Yes 🗹 No                                                                                        |                                                             | Adjusted?                  |                  |
| <ol> <li>Were all holding times able to be met?<br/>(If no, notify customer for authorization.)</li> </ol> |                                                                           | Yes 🗹 No                                                                                        |                                                             | Checked by:                |                  |
| Special Handling (if applicable)                                                                           |                                                                           |                                                                                                 | L                                                           |                            |                  |
| 17. Was client notified of all discrepancies with                                                          | n this order?                                                             | Yes 🗌 No                                                                                        |                                                             | NA 🗹                       |                  |
| Person Notified:                                                                                           | Date                                                                      |                                                                                                 |                                                             | -                          |                  |
| By Whom:                                                                                                   | Via:                                                                      | ] eMail 🗌 Ph                                                                                    | one 🗌 Fa                                                    | x 🗌 In Person              |                  |
| Regarding:                                                                                                 | · · · · · · · · · · · · · · · · · · ·                                     |                                                                                                 |                                                             |                            |                  |
| Client Instructions:                                                                                       | ······                                                                    |                                                                                                 |                                                             |                            |                  |
| 18, Additional remarks:                                                                                    |                                                                           |                                                                                                 |                                                             |                            |                  |

### 19. Cooler information

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| Cooler No | Temp ℃ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|--------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.0    | Good      | Yes         |         |           |           |

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Page 1 of 1

| Client:<br>Mailing                                 | Address                       | -of-Cu<br>-mille<br>2101 | Istody Rec<br>Cond Assoc<br>San Juan Bl<br>VM 87401- | ord<br>ciates<br>luct<br>2247 | Turn-Around                            | Time:<br>Rush<br>Petro-<br>Doroth | mex<br>hy #1                     |                 |               | 49<br>Te    | 01 H         | H<br>A<br>awkii | ns N        | LL<br>AL<br>hall<br>E - | EN<br>YS<br>envir<br>Albu<br>Fa | ronn<br>uque   | IR<br>nent<br>erque | <b>RO</b><br><b>AE</b><br>al.co<br>e, NI<br>345- | <b>N</b><br>30<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50 | 1E<br>RA<br>109 |          | AL | ٢              |
|----------------------------------------------------|-------------------------------|--------------------------|------------------------------------------------------|-------------------------------|----------------------------------------|-----------------------------------|----------------------------------|-----------------|---------------|-------------|--------------|-----------------|-------------|-------------------------|---------------------------------|----------------|---------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------|----------|----|----------------|
| Phone                                              | #: 50                         | 5-32                     | 5-7535                                               |                               | 51                                     | 2122                              | T                                |                 | 1             |             |              |                 |             | Aı                      | naly                            | sis I          | Req                 | uest                                             |                                                                                              |                 |          |    |                |
| email or<br>QA/QC F<br>☑ Stan                      | r Fax#: o<br>Package:<br>dard | e indy g                 | □ Level 4 (Full V                                    | alidation)                    | Project Mana                           | iger: Cin<br>Graj                 | idy<br>¥                         |                 |               | (Gas only)  | as/Diesel    |                 |             |                         |                                 | PO4,SO4)       | PCB's               |                                                  |                                                                                              |                 |          |    |                |
|                                                    | tation<br>AP                  | □ Othe                   | )r                                                   |                               | Sampler: <b>J</b> i<br>On Ice          | bse mor                           | en0                              |                 |               | E + TPH     | 3015B (G     | 418.1)          | 504.1)      | (HAH)                   | S                               | VO3,NO2,       | es / 8082           |                                                  | (A)                                                                                          |                 |          |    | ( or N)        |
| Date                                               | Time                          | Matrix                   | Sample Req                                           | uest ID                       | Container<br>Type and #                | Preservative<br>Type              | NE<br>1208                       | AL No           | BTEX + Millin | BTEX + MTBE | TPH Method 8 | TPH (Method     | EDB (Method | 8310 (PNA or            | RCRA 8 Meta                     | Anions (F,CI,h | 8081 Pesticid       | 8260B (VOA)                                      | 8270 (Semi-V                                                                                 |                 |          |    | Air Bubbles () |
| 8/16/12                                            | 9:04                          | Seil                     | Darothy #1                                           | fire pt.                      | 4 OZ#1                                 | None                              |                                  | -al             | X             |             | X            |                 |             |                         |                                 |                |                     |                                                  |                                                                                              |                 |          |    | T              |
| 8 <u>/16/12</u>                                    | 9:06                          | Soil                     | Dovo thy #1                                          | 4'SE                          | 4 oz#/                                 | None                              |                                  | -002            | X             |             | X            |                 |             |                         |                                 |                |                     |                                                  |                                                                                              |                 |          |    |                |
|                                                    |                               |                          |                                                      |                               |                                        |                                   |                                  |                 |               |             |              | -               |             |                         |                                 |                |                     |                                                  |                                                                                              |                 |          |    |                |
| Deter                                              | Time                          | Delinovich               |                                                      |                               | Passiund but                           |                                   | Data                             | Time            |               |             |              |                 |             |                         |                                 |                |                     |                                                  |                                                                                              |                 |          |    |                |
| Date:<br><b>3/16/12</b><br>Date:<br><b>8/14/12</b> | 10:00<br>Time:<br>1157        |                          | ed by:<br>ed by:<br>my Tee                           | o<br>M                        | Received by:<br>Received by:<br>Mars J | 2 But                             | Date<br>10,00<br>Date<br>6/16/12 | 8/16/12<br>Time | Ren           | narks       | S:           | h conti         | rantad      | datau                   | will have                       | clearly        | u notal             | ted on                                           | the or                                                                                       | sahation        | 1 robort |    |                |

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

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 <u>www.hallenvironmental.com</u> 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,

andy

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

Project: Pit Closures

4

Client Sample ID: Dorothy Composite , Collection Date: 4/3/2013 9:00:00 AM

| Lab ID: 1304203-001              | Matrix: | SOIL     | Receive | d Date: 4/4/2013 | 10:00:00 AM         |
|----------------------------------|---------|----------|---------|------------------|---------------------|
| Analyses                         | Result  | RL Qual  | Units   | DF               | Date Analyzed       |
| EPA METHOD 8015D: DIESEL RANGE O | RGANICS |          |         |                  | 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 RANG  | E       |          |         |                  | 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:** 

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Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

Analyte detected below quantitation limits J

Р Sample pH greater than 2

RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits S

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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WO#: 1304203

10-Apr-13

| Client: S<br>Project: P   | ouder, Miller and Associates<br>it 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 valu                         | e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DR | 0) ND 10                                    |                                                          |
| Surr: DNOP                | 10 10.0                                     | 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 valu                         | e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DR | 0) 55 10 50.0                               | 00 0 110 47.4 122                                        |
| Surr: DNOP                | 5.3 5.00                                    | 00 106 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1304203

10-Apr-13

| Client: Souder,<br>Project: Pit Clos | Miller and<br>sures             | Associa                               | ites      |                            |                                        |           |             |              |          |      |  |  |  |  |  |
|--------------------------------------|---------------------------------|---------------------------------------|-----------|----------------------------|----------------------------------------|-----------|-------------|--------------|----------|------|--|--|--|--|--|
| Sample ID MB-6843                    | SampT                           | ype: ME                               | BLK       | Tes                        | Code: EPA Method 8015D: Gasoline Range |           |             |              |          |      |  |  |  |  |  |
| Client ID: PBS                       | Batch                           | h ID: 684                             | 43        | RunNo: 9720                |                                        |           |             |              |          |      |  |  |  |  |  |
| Prep Date: 4/5/2013                  | Analysis D                      | Analysis Date: 4/8/2013 SeqNo: 277000 |           |                            |                                        |           | Units: mg/k | Jnits: 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                   | SampT                           | ype: LC                               | s         | Tes                        | tCode: El                              | PA Method | 8015D: Gaso | line Rang    | e        |      |  |  |  |  |  |
| Client ID: LCSS                      | LCSS Batch ID: 6843 RunNo: 9720 |                                       |           |                            |                                        |           |             |              |          |      |  |  |  |  |  |
| Prep Date: 4/5/2013                  | Analysis D                      | 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
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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1304203

10-Apr-13

| <b>Client:</b>                                                                                 | Souder,                                                       | Miller and                       | Associa  | tes       |             |          |                            |             |       |          |      |  |  |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------|----------|-----------|-------------|----------|----------------------------|-------------|-------|----------|------|--|--|
| <b>Project:</b>                                                                                | Pit Clos                                                      | sures                            |          |           |             |          |                            |             |       |          |      |  |  |
| Sample ID                                                                                      | MB-6843 SampType: MBLK TestCode: EPA Method 8021B: Volatiles  |                                  |          |           |             |          |                            |             |       |          |      |  |  |
| Client ID:                                                                                     | PBS                                                           | RunNo: 9720                      |          |           |             |          |                            |             |       |          |      |  |  |
| Prep Date:                                                                                     | 4/5/2013                                                      | 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-Bror                                                                                   | nofluorobenzene                                               | 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-Bror                                                                                   | nofluorobenzene                                               | 1.2                              |          | 1.000     |             | 117      | , 80                       | 120         |       |          |      |  |  |
| Sample ID                                                                                      | 1304203-001AM                                                 | Samp                             | Type: MS | 5         | Tes         | tCode: E | PA Method                  | 8021B: Vola | tiles |          |      |  |  |
| Client ID:                                                                                     | Dorothy Compo                                                 | site Batc                        | h ID: 68 | 43        | F           | RunNo: 9 | 720                        |             |       |          |      |  |  |
| Prep Date:                                                                                     | 4/5/2013                                                      | Analysis [                       | Date: 4/ | 8/2013    | S           | SeqNo: 2 | 77035                      | Units: mg/l | 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-Bror                                                                                   | nofluorobenzene                                               | 1.0                              |          | 0.9328    |             | 112      | 80                         | 120         |       |          |      |  |  |
| Sample ID                                                                                      | 1304203-001AM                                                 | SD Samp                          | Type: MS | SD        | Tes         | tCode: E | PA Method                  | 8021B: Vola | tiles |          |      |  |  |
| Client ID:                                                                                     | Dorothy Compo                                                 | site Batc                        | h ID: 68 | 43        | F           | RunNo: 9 | 720                        |             |       |          |      |  |  |
| Prep Date:                                                                                     | 4/5/2013                                                      | Analysis [                       | Date: 4/ | 8/2013    | 5           | SeqNo: 2 | 77042                      | Units: mg/l | 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-Bror                                                                                   | nofluorobenzene                                               | 1.0                              |          | 0.9346    |             | 112      | 80                         | 120         | 0     | 0        |      |  |  |

- **Qualifiers:**
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- E Value above quantitation range
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| HALL Hall<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY TEL                                                                                  | Environmental Analysi<br>4901<br>Albuquerqu<br>5 505-345-3975 FAX: 5<br>Vebsite: www.hallenviro | s Laboratory<br>Hawkins NE<br>e, NM 87105<br>505-345-410;<br>onmental.com | Sample Log-In Check L |                                   |                     |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------|-----------------------------------|---------------------|--|--|--|--|
| Client Name: SMA-FARM Work C                                                                                                              | Order Number: 13042                                                                             | 203                                                                       |                       | RcptNo:                           | 1                   |  |  |  |  |
| Received by/date:                                                                                                                         | 13                                                                                              |                                                                           |                       |                                   |                     |  |  |  |  |
| Logged By: Lindsay Mangin 4/4/2013                                                                                                        | 10:00:00 AM                                                                                     |                                                                           |                       |                                   |                     |  |  |  |  |
| Completed By: Lindsay Mangin 4/4/2013                                                                                                     | 2:05:30 PM                                                                                      |                                                                           |                       |                                   |                     |  |  |  |  |
| Reviewed By:                                                                                                                              | UB T                                                                                            |                                                                           |                       |                                   |                     |  |  |  |  |
| Chain of Custody                                                                                                                          | r11 -                                                                                           |                                                                           |                       |                                   |                     |  |  |  |  |
| 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?                                                                                                          | Cour                                                                                            | ier                                                                       |                       |                                   |                     |  |  |  |  |
| t and to                                                                                                                                  |                                                                                                 |                                                                           |                       |                                   |                     |  |  |  |  |
| Log In                                                                                                                                    |                                                                                                 |                                                                           |                       |                                   |                     |  |  |  |  |
| 4. Was an attempt made to cool the samples?                                                                                               | Yes                                                                                             |                                                                           | NO L                  |                                   |                     |  |  |  |  |
| 5. Were all samples received at a temperature of >0° C                                                                                    | to 6.0°C Yes                                                                                    |                                                                           | No 🗌                  |                                   |                     |  |  |  |  |
| 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 preserv                                                                                      | ed? 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 🗹                  |                                   |                     |  |  |  |  |
|                                                                                                                                           |                                                                                                 |                                                                           |                       | # of preserved<br>bottles checked |                     |  |  |  |  |
| 12. Does paperwork match bottle labels?                                                                                                   | Yes                                                                                             |                                                                           | No                    | for pH:                           | r >12 unless noted) |  |  |  |  |
| (Note discrepancies on chain of custody)<br>13 Are matrices correctly identified on Chain of Custody?                                     | Yes                                                                                             |                                                                           | No 🗆                  | Adjusted?                         |                     |  |  |  |  |
| 14. Is it clear what analyses were requested?                                                                                             | Yes                                                                                             |                                                                           | No 🗆                  |                                   |                     |  |  |  |  |
| 15. Were all holding times able to be met?                                                                                                | Yes                                                                                             |                                                                           | No 🗌                  | Checked by:                       |                     |  |  |  |  |
| (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client politied of all discrepancies with this order | y Voe                                                                                           |                                                                           | No.                   |                                   |                     |  |  |  |  |
|                                                                                                                                           | Pater 100                                                                                       |                                                                           |                       |                                   | ]                   |  |  |  |  |
| Person Notified:                                                                                                                          |                                                                                                 |                                                                           |                       |                                   |                     |  |  |  |  |
| Regarding:                                                                                                                                |                                                                                                 |                                                                           |                       |                                   |                     |  |  |  |  |
| Client Instructions:                                                                                                                      |                                                                                                 |                                                                           | and a first of the    | <u> </u>                          |                     |  |  |  |  |
| 17. Additional remarks:                                                                                                                   | · · ·                                                                                           |                                                                           | -14                   |                                   | 1                   |  |  |  |  |
| 18 Cooler Information                                                                                                                     |                                                                                                 |                                                                           |                       |                                   |                     |  |  |  |  |
| Cooler No Temp °C Condition Seal Intact                                                                                                   | Seal No Seal D                                                                                  | ate Sig                                                                   | ned By                |                                   |                     |  |  |  |  |
| 1 1.0 Good Yes                                                                                                                            |                                                                                                 |                                                                           |                       |                                   |                     |  |  |  |  |

Page 1 of 1

| C                        | hain                    | of-Cu       | stody Record              | Turr      | n-Around             | Time:                |                       |          |         |          |         | 44       |         | E       | NV        | TE       | 20      | NR      | ME       | NT      | AL   |
|--------------------------|-------------------------|-------------|---------------------------|-----------|----------------------|----------------------|-----------------------|----------|---------|----------|---------|----------|---------|---------|-----------|----------|---------|---------|----------|---------|------|
| Client:                  | Petro                   | max         |                           | X         | Standard             | C Rush               | L                     |          |         | E        |         |          | AL      | Y       | 515       | S L      | A       | 30      | RA       | TO      | RY   |
| C/n S                    | Souder                  | mille       | er and Asscrates          | Proj      | ect Name             | 9:                   |                       |          |         |          |         | wwv      | v.ha    | llenv   | riron     | ment     | tal.co  | m       |          |         |      |
| Mailing                  | Address                 | 2101        | C. Terry Bland            | 1         | P1                   | t clo                | sures                 |          | 49      | 01 H     | lawk    | ins N    | NE -    | Alt     | ouau      | erau     | e. N    | M 87    | 109      |         |      |
|                          |                         | 5           | san Mim 87401             | Proj      | ect #:               |                      |                       | 1        | Т       | 1 50     | 15-3/   | 15-30    | 075     |         | Fax       | 505-     | 345     | 410     | 7        |         |      |
| Phone t                  | +. ~                    | 0(= 7-      | 91011 101 07101           | 1         | 51                   | 12 155               | 4                     |          |         |          | 000     | 10 0.    | A       | nal     | sis       | Req      | uest    | t       |          |         |      |
| email or                 | Fax#: 0                 | Etudui 90   | avot soudormiller, com    | Proi      | ect Mana             | aer:                 |                       |          | ()      | (le      |         |          |         |         | (+)       |          | -       |         |          |         |      |
| QA/QC F                  | Package:                | indy. J     |                           | 1         | Cyn                  | thig G               | rax                   | 021)     | s on    | Dies     |         |          |         |         | SC,       | B's      |         |         |          |         |      |
| □ Stan                   | dard                    |             | Level 4 (Full Validation) |           | 1                    |                      | /-                    | s (8     | (Ga:    | l/sei    |         |          |         |         | PO        | PO       |         |         |          |         |      |
| Accredit                 | tation                  |             |                           | San       | pler: C              | harley               | Tim                   |          | HH      | B (G     | E       | =        | -       |         | 102,      | 082      |         |         |          |         |      |
|                          | AP                      | Othe        | r                         | On        |                      | W Ves                | D Notest States       |          | H<br>+  | 0151     | 118.    | 504.     | AH      | 6       | 03,1      | s / 8    |         | (A)     |          |         |      |
|                          | (Type)_                 |             |                           | San       | iple Tem             |                      |                       | H<br>H   | BE      | d 8(     | od 4    | po       | or      | etal    | CI'N      | cide     | (Y      | N-1     |          |         |      |
| Date                     | Time                    | Matrix      | Sample Request ID         | Сс<br>Тур | ontainer<br>be and # | Preservative<br>Type | HEALNO                | EX + MH  | EX + M  | H Metho  | H (Meth | DB (Meth | 10 (PNA | CRA 8 M | ions (F,( | 81 Pesti | 60B (VO | 70 (Sem |          |         |      |
|                          |                         |             | 10                        |           |                      |                      | 1301205               | B        | BT      | E V      | F       | Ш        | 83      | R       | A         | 80       | 82      | 82      |          | +       |      |
| 4 <u> </u> 3  B          | 9'00                    | Soil        | Dorothy Composite         | 4         | 07                   | Cool                 | -001                  | 1        |         | ~        |         | _        |         |         |           |          |         |         | -        | +       | ++   |
|                          |                         |             |                           |           | · · ·                |                      |                       | -        |         |          |         |          |         |         |           |          |         |         | -        | -       | ++   |
|                          |                         |             |                           |           |                      |                      |                       |          |         |          |         |          |         |         |           |          |         |         |          |         |      |
|                          |                         |             |                           |           |                      |                      |                       |          |         |          |         |          |         |         |           |          |         |         |          |         |      |
|                          |                         |             |                           |           |                      |                      |                       | -        |         |          |         |          |         |         | -         |          |         |         |          | -       | ++   |
|                          |                         |             |                           |           |                      |                      |                       |          |         |          |         |          |         |         |           |          |         |         |          | +       | ++   |
|                          |                         |             |                           |           |                      |                      |                       |          |         |          |         |          |         |         |           |          |         |         |          |         |      |
|                          |                         |             |                           |           |                      |                      |                       |          |         |          |         |          |         |         |           |          |         |         |          | -       | +    |
|                          |                         |             |                           | -         |                      |                      |                       |          |         |          |         |          |         |         |           |          |         |         |          | +       | ++   |
| Date:<br>4/3/13<br>Date: | Time:<br>10:45<br>Time: | Relinquishe | ad by:<br>ad by:          | Rece      | ived by:             | y Tani               | Date Time<br><u> </u> | Rer<br>( | narks   | s:<br>mp | 00      | site     | è       | q       | t         | 6        | us a    | <br>(   | of       | 511     | dewa |
| 4/3/13                   | 1655                    | De          | my Pourt                  | 1         | Mistry               | Walls                | 4/3/13 1655           |          | L 114 - |          |         |          |         |         |           | 1        |         | there   | noh éla- | Instant |      |