# UICI - 5

# WASTE ANALYSES INFO

2017

Received by OCD: 11/8/2023 4:26:09 PM 1625 N. French Br., Hobbs, NM 88240

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

2-2-17

Page 2 of 117
Form C-138
Revised 08/01/11

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQ	UEST FOR APP	ROVAL TO ACCE	PT SOLID WAST	E
<ol> <li>Generator Name and Address Enterprise Field Services, LLC,</li> </ol>		gton NM 87401		
2. Originating Site: MAPL Dolores Pumping Sta	tion			
3. Location of Material (Street SE ¼ Section 31 Township 37				0
I. Source and Description of W. Source: Water/Oil from the Non Description: Non Exempt/Non H. Estimated Volume 80 yd3 bbl.	Exempt WasteWater Tank azardous Water from the c	compressor skids.		ya / bbls
5. GF	ENERATOR CERTIFIC	CATION STATEMENT OF	WASTE STATUS	
I, Thomas Long , represe Generator Signature certify that according to the Resourcegulatory determination, the above	arce Conservation and Rec	covery Act (RCRA) and the U	JS Environmental Protection	on Agency's July 1988
RCRA Exempt: Oil field exempt waste. Operator U		il and gas exploration and pro nce Frequency Monthly		
RCRA Non-Exempt: Oil characteristics established in l subpart D, as amended. The the appropriate items)	RCRA regulations, 40 CF	R 261.21-261.24, or listed ha	zardous waste as defined i	n 40 CFR, part 261,
☐ MSDS Information ☐ RCR	A Hazardous Waste Ana	lysis Process Knowledg	e Other (Provide des	cription in Box 4)
GENERATOR 19.15	.36.15 WASTE TESTIN	G CERTIFICATION STA	TEMENT FOR LANDFA	ARMS
I, Thomas Long , representation , repres			to complete	
re	presentative for	Ama Moss LLC	do hereby c	ertify that
l,, re representative samples of the oil finave been found to conform to the of the representative samples are a 19.15.36 NMAC.	specific requirements ap	plicable to landfarms pursuan	nd tested for chloride conte at to Section 15 of 19.15.30	ent and that the samples 6 NMAC. The results
5. Transporter: To Be Determ	ined			
OCD Permitted Surface Waste	Management Facility			
Name and Facility Permit #: *A Address of Facility: SW/4 NW/4			М	
Method of Treatment and/or Disposal:  Evaporation	☑ Injection ☐ Trea	ating Plant	☐ Landfill ☐ Other	
Waste Acceptance Status:	☑ APPROVE	D DE	NIED (Must Be Maintaine	ed As Permanent Record
Gran 11	Early The second	Phin		,
PRINT NAME: CALLES	99145	TITLE:	0.:	DATE: 12/17
	anagement Facility Authorized A			



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

February 10, 2017

Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: Dolores Station OrderNo.: 1702175

### Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/3/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

□ Rush  ANALYSIS LABORATORY  www.hallenvironmental.com	Shartion 4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	(%)(O)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)	(SIZ)	OA MIS	280880870N 702 (1) (1) (1)	118 ON 11	PBE od 6 od 9	Preservative Type Type Type TYPH (Methoracidate) TPH (Methoracidat	Vansus -001 XXX X	HC1 -002 X			A dight 1766 Remarks: 260 Full List Report Telp Compound At Telp Limits compound At Telp Limits compound to Telp Limits
	SS	Project #:		Project Manager:	Ashley Maxwell	tom hong	Sampler: RW	On Ice	Sample Temper	Container Pr	VACTOUS V	VOA H			Received by:
000	Mailing Address: 40 w. Beadung	87401	325-7535	^		II Validation)				Sample Request ID	Dolones BGIT				ad by: A cores
At Here A	40 W.	HARMINSTEN, LA		Bhley	Souchern			□ Other		Matrix	HZO	"			Relinguished by:
Judge !	Address	syla	505	Fax#: F	ackage:	ard	ation	Д	(Type)	Time	11:15	"			Time: 1766
Client:	Mailing A	FAEM	Phone #: 505-	email or	QA/QC P	□ Standard	Accreditation	O NELAP	□ EDD (Type)	Date	2-2-17	1			2-2-17 1760 Date: Time:



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

# Sample Log-In Check List

Client N	ame:	SMA-FARM		Work (	Order Numb	er: 1702175		RcptNo:	1
Received	hv/date	Dy	$\sim$	02	102	7			
		01.	1	-00	1021		4		
Logged E		Ashley Ga			8:35:00 AN		Sal		
Complete		Ashley Ga	llegos	2/3/2017	11:23:22 A	M	<b>F</b>		
Reviewe	d By:	X	JACX	82	103/17				
Chain o	of Cus	tody	1 0						
1. Cust	ody sea	ls intact on sa	ample bottles	?		Yes 🗌	No []	Not Present	
2. Is Ch	nain of C	ustody comp	olete?			Yes 🗸	No 🗌	Not Present	
3. How	was the	sample deliv	vered?			Courier			
Log In									
4. Was	an atte	mpt made to	cool the samp	oles?		Yes 🗹	No 🗆	NA 🗆	
5. Were	e all san	nples receive	d at a tempera	ature of >0° C	to 6.0°C	Yes 🗸	No 🗆	NA 🖂	
6. Sam	ple(s) ir	proper conta	ainer(s)?			Yes 🗹	No 🗆		
7. Suffic	cient sa	mple volume	for indicated t	est(s)?		Yes 🗹	No 🗆		
8. Are s	amples	(except VOA	and ONG) pr	operly preserv	ed?	Yes 🗸	No 🗌		
9. Was	preserv	ative added t	o bottles?			Yes 🗌	No 🗸	NA []	
10.VOA	vials ha	ve zero head	ispace?			Yes 🗸	No 🗌	No VOA Vials	
11. Wer	e any sa	imple contain	ers received t	oroken?		Yes 🗌	No 🗸	# of preserved	
		ork match bo	ottle labels?	0		Yes 🗹	No 🗆	bottles checked for pH:	or >12 unless noted)
				in of Custody?		Yes 🗸	No 🗆	Adjusted?	A
14. Is it o	lear wh	at analyses w	vere requested	1?		Yes 🗸	No 🗌		A
			le to be met? authorization.	)		Yes 🗸	No 🗌	Checked by:	00
Spacial	Hand	ling (if app	olioabla)						
				with this order?		Yes 🗌	No [	NA 🗸	
1	Person	Notified:	1	- 111 21 21 21	Date				1
	By Wh				Via:	eMail [	Phone Fax	In Person	
	Regard								
	Client I	nstructions:			-				
17. Addi	itional re	marks:				***			
18. <u>Cool</u>	ler Info	rmation							
1000	ooler No	-	Condition	Seal Intact	Seal No	Seal Date	Signed By		
1		1.6	Good	Yes					
the War			A . IA-F-1					Market of Samuel	walker to make with

# Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

0.0050

0.050

0.0050

0.5000

0.5000

0.1000

0.47

0.50

0.097

WO#: 1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: **Dolores Station** 

Sample ID LCS-30052

Lead

Silver

Selenium

Sample ID MB-30052 SampType: MBLK TestCode: EPA 6010B: Total Recoverable Metals PBW Client ID: Batch ID: 30052 RunNo: 40536 Prep Date: 2/3/2017 SeqNo: 1270070 Units: mg/L Analysis Date: 2/6/2017 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.020 Arsenic ND 0.020 Barium ND 0.0020 Cadmium ND Chromium ND 0.0060 Lead ND 0.0050 Selenium 0.050 ND Silver 0.0050 ND

Client ID: LCSW Batch ID: 30052 RunNo: 40536 Units: mg/L Prep Date: 2/3/2017 Analysis Date: 2/6/2017 SeqNo: 1270071 Analyte PQL SPK value SPK Ref Val %REC **HighLimit** %RPD **RPDLimit** Qual Result LowLimit 80 120 Arsenic 0.48 0.020 0.5000 0 96.5 0 95.2 80 120 Barium 0.48 0.020 0.5000 Cadmium 0.0020 0.5000 0 94.2 80 120 0.47 80 0.48 0.0060 0.5000 0 95.8 120 Chromium

0

0

0

93.2

99.9

97.1

TestCode: EPA 6010B: Total Recoverable Metals

80

80

80

120

120

120

Page 14 of 14

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range E
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1702175

10-Feb-17

Client:

Souder, Miller and Associates

Project: **Dolores Station** 

Sample ID MB-30083

SampType: MBLK

TestCode: EPA Method 7470: Mercury

TestCode: EPA Method 7470: Mercury

Client ID: PBW

Batch ID: 30083

RunNo: 40571

Prep Date: 2/7/2017 Analysis Date: 2/7/2017 SeqNo: 1271184

Units: mg/L **HighLimit** 

**RPDLimit** 

Qual

Analyte

PQL

SPK value SPK Ref Val %REC LowLimit

Mercury

ND 0.00020

Sample ID LCS-30083

SampType: LCS

Client ID: LCSW Prep Date: 2/7/2017

Batch ID: 30083 Analysis Date: 2/7/2017 RunNo: 40571

101

SeqNo: 1271186

Units: mg/L

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** 

%RPD

Qual

Analyte Mercury

0.0050 0.00020 0.005000

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

Value above quantitation range E

Analyte detected below quantitation limits J

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Released to Imaging: 11/8/2023 4:32:22 PM

Page 13 of 14

# Hall Environmental Analysis Laboratory, Inc.

SampType: MBI K

ND

ND

49

12

0.50

0.50

87.60

20.00

WO#: 1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: **Dolores Station** 

Sample ID mb-30059

Sample ID		Type: LC h ID: 30 Date: 2/		F	tCode: El RunNo: 4 SeqNo: 1	0635	8270C: PAHs Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	15	0.50	20.00	0	74.5	38	154	11.5	21	
Benzo(a)pyrene	14	0.50	20.00	0	72.4	38.6	153	3.80	24.8	
Dibenz(a,h)anthracene	16	0.50	20.00	0	78.3	39.7	155	6.05	26	
Benzo(g,h,i)perylene	15	0.50	20.00	0	73.1	39.6	154	6.35	20	
Indeno(1,2,3-cd)pyrene	15	0.50	20.00	0	75.6	19.1	153	5.30	20	
Surr: N-hexadecane	50		87.60		56.9	15	176	0	0	
Surr: Benzo(e)pyrene	13		20.00		63.8	15	198	0	0	

TestCode: FPA Method 8270C: PAHs

Sample ID IIID-30039	Janip	ype. wit	DLK	168	Code. E	PA Method	02/00: PAR	•		
Client ID: PBW	Batc	h ID: 30	059	1	RunNo: 4	0635				
Prep Date: 2/6/2017	Analysis E	Date: 2/	9/2017		SeqNo: 1	273338	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								

### Qualifiers:

Benzo(g,h,i)perylene

Indeno(1,2,3-cd)pyrene

Surr: N-hexadecane

Surr: Benzo(e)pyrene

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

56.4

61.2

15

15

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

Analyte detected below quantitation limits Page 12 of 14

176

198

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702175

10-Feb-17

Client:

Souder, Miller and Associates

Project:

**Dolores Station** 

Sample ID Ics-30059	Samp1	ype: LC	S	Tes	tCode: E	PA Method	8270C: PAHs			
Client ID: LCSW	Batc	h ID: 30	059	F	RunNo: 4	0635				
Prep Date: 2/6/2017	Analysis E	Date: 2/	9/2017	\$	SeqNo: 1	273336	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	12	0.50	20.00	0	60.0	37.4	120			
I-Methylnaphthalene	12	0.50	20.00	0	60.5	39.3	121			
2-Methylnaphthalene	12	0.50	20.00	0	57.9	37.8	122			
Acenaphthylene	13	0.50	20.00	0	64.1	. 37	124			
Acenaphthene	13	0.50	20.00	0	65.9	35.6	123			
Fluorene	14	0.50	20.00	0	70.6	35.2	122			
Phenanthrene	14	0.50	20.00	0	68.9	38.8	122			
Anthracene	14	0.50	20.00	0	68.9	37.5	125			
Fluoranthene	14	0.50	20.00	0	70.9	37.4	131			
Pyrene	15	0.50	20.00	0	74.1	27.5	140			
Benz(a)anthracene	15	0.50	20.00	0	73.2	25.4	141			
Chrysene	14	0.50	20.00	0	68.0	33.6	155			
Benzo(b)fluoranthene	15	0.50	20.00	0	74.0	39	153			
Benzo(k)fluoranthene	13	0.50	20.00	0	66.4	38	154			
Benzo(a)pyrene	14	0.50	20.00	0	69.7	38.6	153			
Dibenz(a,h)anthracene	15	0.50	20.00	0	73.7	39.7	155			
Benzo(g,h,i)perylene	14	0.50	20.00	0	68.6	39.6	154			
ndeno(1,2,3-cd)pyrene	14	0.50	20.00	0	71.7	19.1	153			
Surr: N-hexadecane	50		87.60		57.4	15	176			
Surr: Benzo(e)pyrene	13		20.00		65.4	15	198			

SampType: LCSD TestCode: EPA Method 8270C: PAHs Client ID: LCSS02 Batch ID: 30059 RunNo: 40635

Prep Date: 2/6/2017	Analysis E	)ate: 2/	9/2017	5	SeqNo: 1	273337	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	14	0.50	20.00	0	69.9	37.4	120	15.2	20	
1-Methylnaphthalene	14	0.50	20.00	0	69.8	39.3	121	14.3	26.8	
2-Methylnaphthalene	13	0.50	20.00	0	66.0	37.8	122	13.1	23.8	
Acenaphthylene	15	0.50	20.00	0	73.5	37	124	13.7	28.6	
Acenaphthene	14	0.50	20.00	0	72.4	35.6	123	9.40	27	
Fluorene	14	0.50	20.00	0	70.8	35.2	122	0.283	25.7	
Phenanthrene	15	0.50	20.00	0	73.5	38.8	122	6.46	20	
Anthracene	14	0.50	20.00	0	72.4	37.5	125	4.95	21.2	
Fluoranthene	15	0.50	20.00	0	75.5	37.4	131	6.28	21.8	
Pyrene	15	0.50	20.00	0	74.2	27.5	140	0.135	31.1	
Benz(a)anthracene	16	0.50	20.00	0	77.6	25.4	141	5.84	26.6	
Chrysene	15	0.50	20.00	0	72.6	33.6	155	6.54	21.2	
Benzo(b)fluoranthene	15	0.50	20.00	0	77.4	39	153	4.49	20	

### Qualifiers:

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

Sample ID Icsd-30059

- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 11 of 14

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: **Dolores Station** 

Sample ID rb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Client ID: Batch ID: W40534 RunNo: 40534 Prep Date: Analysis Date: 2/6/2017 SeqNo: 1270237 Units: µg/L Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 9.7 10.00 70 130 96.5 Surr: Dibromofluoromethane 9.8 10.00 98.4 70 130 Surr: Toluene-d8 11 10.00 107 70 130

Sample ID 100ng Ics	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batcl	ID: W	10534	F	RunNo: 4	0534				
Prep Date:	Analysis D	ate: 2/	6/2017	S	SeqNo: 1	270238	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.3	70	130			
Toluene	20	1.0	20.00	0	99.5	70	130			
Chlorobenzene	19	1.0	20.00	0	96.2	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.5	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	90.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range P
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 10 of 14

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702175

10-Feb-17

Client:

Souder, Miller and Associates

Project:

**Dolores Station** 

Sample ID rb	Sampl	ype: MI	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batcl	n ID: W	40534	F	RunNo: 4	0534				
Prep Date:	Analysis D	)ate: 2/	6/2017	5	SeqNo: 1	270237	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
,2-Dibromo-3-chloropropane	ND	2.0					2010		11119	
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
,2-Dichlorobenzene	ND	1.0								
,3-Dichlorobenzene	ND	1.0								
,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
,1-Dichloroethane	ND	1.0								
,1-Dichloroethene	ND	1.0								
,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
,2-Dichloropropane	ND	2.0								
,1-Dichloropropene	ND	1.0								
lexachlorobutadiene	ND	1.0								
-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
-Isopropyltoluene	ND	1.0								
-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
-Butylbenzene	ND	3.0								
-Propylbenzene	ND	1.0								
ec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
ert-Butylbenzene	ND	1.0								
,1,1,2-Tetrachioroethane	ND	1.0								
,1,2,2-Tetrachloroethane	ND	2.0								
etrachloroethene (PCE)	ND	1.0								
rans-1,2-DCE	ND	1.0								
rans-1,3-Dichloropropene	ND	1.0								
,2,3-Trichlorobenzene	ND	1.0								
,2,4-Trichlorobenzene	ND	1.0								
,1,1-Trichloroethane	ND	1.0								
,1,2-Trichloroethane	ND	1.0								
richloroethene (TCE)	ND	1.0								
richlorofluoromethane	ND	1.0								
,2,3-Trichloropropane	ND	2.0								
/inyl chloride	ND	1.0								
(ylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10	1.5	10.00		101	70	130			

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 9 of 14

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702175

10-Feb-17

Client:

Souder, Miller and Associates

SampType: MBLK

Project:

Sample ID rb

**Dolores Station** 

Sample ID 100ng Ics	12-100-0	ype: LC		100			8260B: VOL	ATILES		
Client ID: LCSW Prep Date:	Analysis D	h ID: W4	3/2017		RunNo: 4 SeqNo: 1:		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr. 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.4	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW	Batc	h ID: W	40534	F	RunNo: 4	0534				
Prep Date:	Analysis E	Date: 2/	6/2017	5	SeqNo: 1	270237	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
,2,4-Trimethylbenzene	ND	1.0								
,3,5-Trimethylbenzene	ND	1.0								
,2-Dichloroethane (EDC)	ND	1.0								
,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
I-Chlorotoluene	ND	1.0								
dis-1,2-DCE	ND	1.0								
is-1,3-Dichloropropene	ND	1.0								

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 14

# Hall Environmental Analysis Laboratory, Inc.

WO#:

Page 7 of 14

1702175

10-Feb-17

Client: Souder, Miller and Associates

Project: Dolores Station

Sample ID rb	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batc	h ID: W	40507	F	RunNo: 4	0507				
Prep Date:	Analysis [	Date: 2/	3/2017	5	SeqNo: 1	269582	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID 100ng Ics	SampType: LCS		Tes	TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch	ID: W	40507	RunNo: 40507		RunNo: 40507					
Prep Date:	Analysis D	ate: 2/	3/2017	8	SeqNo: 1	269583	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	99.3	70	130				
Toluene	21	1.0	20.00	0	105	70	130				
Chlorobenzene	20	1.0	20.00	0	100	70	130				

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702175

10-Feb-17

Client: So

Souder, Miller and Associates

Project: Dolores Station

Sample ID rb		ype: ME					nod 8260B: VOLATILES					
Client ID: PBW	Batc	n ID: W	10507	F								
Prep Date:	Analysis Date: 2/3/2017		SeqNo: 1269582			Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
enzene	ND	1.0							7			
oluene	ND	1.0										
thylbenzene	ND	1.0										
Methyl tert-butyl ether (MTBE)	ND	1.0										
,2,4-Trimethylbenzene	ND	1.0										
,3,5-Trimethylbenzene	ND	1.0										
,2-Dichloroethane (EDC)	ND	1.0										
,2-Dibromoethane (EDB)	ND	1.0										
laphthalene	ND	2.0										
-Methylnaphthalene	ND	4.0										
-Methylnaphthalene	ND	4.0										
cetone	ND	10										
romobenzene	ND	1.0										
romodichloromethane	ND	1.0										
romoform	ND	1.0										
romomethane	ND	3.0										
-Butanone	ND	10										
arbon disulfide	ND	10										
arbon Tetrachloride	ND	1.0										
hlorobenzene	ND	1.0										
Chloroethane	ND	2.0										
Chloroform	ND	1.0										
chloromethane	ND	3.0										
-Chlorotoluene	ND	1.0										
-Chlorotoluene	ND	1.0										
is-1,2-DCE	ND	1.0										
is-1,3-Dichloropropene	ND	1.0										
,2-Dibromo-3-chloropropane	ND	2.0										
Dibromochloromethane	ND	1.0										
Dibromomethane	ND	1.0										
,2-Dichlorobenzene	ND	1.0										
,3-Dichlorobenzene	ND	1.0										
4-Dichlorobenzene	ND	1.0										
ichlorodifluoromethane	ND	1.0										
,1-Dichloroethane	ND	1.0										
,1-Dichloroethene	ND	1.0										
,2-Dichloropropane	ND	1.0										
,3-Dichloropropane	ND	1.0										
,2-Dichloropropane	ND	2.0										

### Qualifiers:

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- 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

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Lab Order 1702175

Date Reported: 2/10/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: TRIP BLANK

Project: Dolores Station

Collection Date:

Lab ID: 1702175-002

Matrix: AQUEOUS

Received Date: 2/3/2017 8:35:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: DJF
1,1-Dichloropropene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Hexachlorobutadiene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
2-Hexanone	ND	10	µg/L	1	2/4/2017 12:55:38 AM
Isopropylbenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
4-Isopropyltoluene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AN
4-Methyl-2-pentanone	ND	10	µg/L	1	2/4/2017 12:55:38 AM
Methylene Chloride	ND	3.0	µg/L	1	2/4/2017 12:55:38 AM
n-Butylbenzene	ND	3.0	µg/L	1	2/4/2017 12:55:38 AM
n-Propylbenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
sec-Butylbenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Styrene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
tert-Butylbenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1	2/4/2017 12:55:38 AM
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
trans-1,2-DCE	ND	1.0	µg/L	.1	2/4/2017 12:55:38 AM
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	2/4/2017 12:55:38 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	2/4/2017 12:55:38 AM
1,1,2-Trichloroethane	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Trichloroethene (TCE)	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Trichlorofluoromethane	ND	1.0	µg/L	- 1	2/4/2017 12:55:38 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	2/4/2017 12:55:38 AM
Vinyl chloride	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Xylenes, Total	ND	1.5	µg/L	1	2/4/2017 12:55:38 AM
Surr: 1,2-Dichloroethane-d4	90.4	70-130	%Rec	1	2/4/2017 12:55:38 AM
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	2/4/2017 12:55:38 AM
Surr: Dibromofluoromethane	95.8	70-130	%Rec	1	2/4/2017 12:55:38 AM
Surr: Toluene-d8	115	70-130	%Rec	1	2/4/2017 12:55:38 AM

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1702175

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/10/2017

CLIENT: Souder, Miller and Associates

Client Sample ID: TRIP BLANK

Project: Dolores Station

**Collection Date:** 

Lab ID: 1702175-002

Matrix: AQUEOUS Received Date: 2/3/2017 8:35:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: DJF
Benzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Toluene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Ethylbenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	2/4/2017 12:55:38 AM
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Naphthalene	ND	2.0	µg/L	1	2/4/2017 12:55:38 AM
1-Methylnaphthalene	ND	4.0	µg/L	1	2/4/2017 12:55:38 AM
2-Methylnaphthalene	ND	4.0	µg/L	1	2/4/2017 12:55:38 AM
Acetone	ND	10	µg/L	1	2/4/2017 12:55:38 AM
Bromobenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Bromodichloromethane	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Bromoform	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Bromomethane	ND	3.0	µg/L	1	2/4/2017 12:55:38 AN
2-Butanone	ND	10	µg/L	1	2/4/2017 12:55:38 AN
Carbon disulfide	ND	10	µg/L	1	2/4/2017 12:55:38 AM
Carbon Tetrachloride	ND	1.0	µg/L	1	2/4/2017 12:55:38 AN
Chlorobenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AN
Chloroethane	ND	2.0	µg/L	1	2/4/2017 12:55:38 AN
Chloroform	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Chloromethane	ND	3.0	µg/L	1	2/4/2017 12:55:38 AM
2-Chlorotoluene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
4-Chlorotoluene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
cis-1,2-DCE	ND	1.0	µg/L	1	2/4/2017 12:55:38 AN
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AN
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	2/4/2017 12:55:38 AM
Dibromochloromethane	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Dibromomethane	ND	1.0	µg/L	1	2/4/2017 12:55:38 AN
1,2-Dichlorobenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,3-Dichlorobenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,4-Dichlorobenzene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
Dichlorodifluoromethane	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,1-Dichloroethane	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,1-Dichloroethene	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,2-Dichloropropane	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
1,3-Dichloropropane	ND	1.0	µg/L	1	2/4/2017 12:55:38 AM
2,2-Dichloropropane	ND	2.0	µg/L	1	2/4/2017 12:55:38 AM

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1702175

Date Reported: 2/10/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Dolores BGT

Project: Dolores Station

Collection Date: 2/2/2017 11:15:00 AM

Lab ID: 1702175-001 Matrix: AQUEOUS Received Date: 2/3/2017 8:35:00 AM

nalyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES		The sales		- 1	Analyst: DJI
n-Butylbenzene	ND	0.60	mg/L	200	2/6/2017 8:26:17 PM
n-Propylbenzene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
sec-Butylbenzene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
Styrene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
tert-Butylbenzene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
1,1,1,2-Tetrachloroethane	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
1,1,2,2-Tetrachloroethane	ND	0.40	mg/L	200	2/6/2017 8:26:17 PM
Tetrachloroethene (PCE)	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
trans-1,2-DCE	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
trans-1,3-Dichloropropene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
1,2,3-Trichlorobenzene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
1,2,4-Trichlorobenzene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
1,1,1-Trichloroethane	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
1,1,2-Trichloroethane	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
Trichloroethene (TCE)	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
Trichlorofluoromethane	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
1,2,3-Trichloropropane	ND	0.40	mg/L	200	2/6/2017 8:26:17 PM
Vinyl chloride	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
Xylenes, Total	ND	0.30	mg/L	200	2/6/2017 8:26:17 PM
Surr: 1,2-Dichloroethane-d4	94.9	70-130	%Rec	200	2/6/2017 8:26:17 PM
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	200	2/6/2017 8:26:17 PM
Surr: Dibromofluoromethane	97.5	70-130	%Rec	200	2/6/2017 8:26:17 PM
Surr: Toluene-d8	106	70-130	%Rec	200	2/6/2017 8:26:17 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1702175

Date Reported: 2/10/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates Client Sample ID: Dolores BGT

 Project:
 Dolores Station
 Collection Date: 2/2/2017 11:15:00 AM

 Lab ID:
 1702175-001
 Matrix: AQUEOUS
 Received Date: 2/3/2017 8:35:00 AM

**Date Analyzed** Analyses Result PQL Qual Units DF Analyst: DJF **EPA METHOD 8260B: VOLATILES** 1,2-Dibromoethane (EDB) ND 200 2/6/2017 8:26:17 PM 0.20 mg/L ND 200 2/6/2017 8:26:17 PM Naphthalene 0.40 mg/L 1-Methylnaphthalene 2/6/2017 8:26:17 PM ND 0.80 200 mg/L 2-Methylnaphthalene ND 0.80 mg/L 200 2/6/2017 8:26:17 PM 200 2/6/2017 8:26:17 PM ND Acetone 2.0 mg/L Bromobenzene ND 0.20 mg/L 200 2/6/2017 8:26:17 PM 200 2/6/2017 8:26:17 PM Bromodichloromethane ND 0.20 mg/L 200 2/6/2017 8:26:17 PM Bromoform ND 0.20 mg/L 200 2/6/2017 8:26:17 PM Bromomethane ND 0.60 mg/L 2-Butanone 200 2/6/2017 8:26:17 PM ND 2.0 mg/L Carbon disulfide ND 2.0 mg/L 200 2/6/2017 8:26:17 PM 200 2/6/2017 8:26:17 PM Carbon Tetrachloride ND 0.20 mg/L 200 2/6/2017 8:26:17 PM Chlorobenzene ND 0.20 mg/L Chloroethane ND 200 2/6/2017 8:26:17 PM 0.40 mg/L 2/6/2017 8:26:17 PM Chloroform ND 0.20 mg/L 200 200 2/6/2017 8:26:17 PM Chloromethane ND 0.60 mg/L 200 2/6/2017 8:26:17 PM 2-Chlorotoluene ND 0.20 mg/L 4-Chlorotoluene ND 0.20 mg/L 200 2/6/2017 8:26:17 PM 200 2/6/2017 8:26:17 PM cis-1,2-DCE ND 0.20 mg/L cis-1,3-Dichloropropene ND 0.20 mg/L 200 2/6/2017 8:26:17 PM 200 2/6/2017 8:26:17 PM 1,2-Dibromo-3-chloropropane ND 0.40 mg/L 2/6/2017 8:26:17 PM Dibromochloromethane ND 0.20 mg/L 200 200 2/6/2017 8:26:17 PM Dibromomethane ND 0.20 mg/L 1,2-Dichlorobenzene ND 0.20 mg/L 200 2/6/2017 8:26:17 PM ND 0.20 200 2/6/2017 8:26:17 PM 1,3-Dichlorobenzene mg/L 200 2/6/2017 8:26:17 PM ND 0.20 1,4-Dichlorobenzene mg/L 200 2/6/2017 8:26:17 PM Dichlorodifluoromethane ND 0.20 mg/L 2/6/2017 8:26:17 PM 1,1-Dichloroethane ND 0.20 mg/L 200 1,1-Dichloroethene ND 0.20 mg/L 200 2/6/2017 8:26:17 PM 2/6/2017 8:26:17 PM ND 0.20 mg/L 200 1,2-Dichloropropane 200 2/6/2017 8:26:17 PM ND 0.20 mg/L 1,3-Dichloropropane ND 0.40 mg/L 200 2/6/2017 8:26:17 PM 2,2-Dichloropropane 200 2/6/2017 8:26:17 PM 1,1-Dichloropropene ND 0.20 mg/L 200 2/6/2017 8:26:17 PM Hexachlorobutadiene ND 0.20 mg/L 200 2/6/2017 8:26:17 PM ND 2-Hexanone 2.0 mg/L Isopropylbenzene 2/6/2017 8:26:17 PM ND 0.20 200 mg/L 2/6/2017 8:26:17 PM 4-Isopropyltoluene ND 0.20 mg/L 200 4-Methyl-2-pentanone ND 2.0 200 2/6/2017 8:26:17 PM mg/L 2/6/2017 8:26:17 PM Methylene Chloride ND 0.60 mg/L 200

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

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1702175-001

Lab ID:

# **Analytical Report**

Lab Order 1702175

Date Reported: 2/10/2017

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Dolores BGT CLIENT: Souder, Miller and Associates

Collection Date: 2/2/2017 11:15:00 AM Project: **Dolores Station** Received Date: 2/3/2017 8:35:00 AM Matrix: AQUEOUS

Analyses	Result	PQL Qua	d Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY					Analyst: MED
Mercury	ND	0.00020	mg/L	1	2/7/2017 6:30:36 PM
	AETAL S				Analyst: pmf
EPA 6010B: TOTAL RECOVERABLE N		0.000	ma/l	1	2/6/2017 12:51:25 PM
Arsenic	ND	0.020	mg/L	1	2/6/2017 12:51:25 PM
Barium	0.094	0.020	mg/L	1	2/6/2017 12:51:25 PM
Cadmium	ND	0.0020	mg/L	1	2/6/2017 12:51:25 PM
Chromium	ND	0.0060	mg/L	1	2/6/2017 12:51:25 PM
Lead	ND	0.0050	mg/L mg/L	1	2/6/2017 12:51:25 PM
Selenium	ND	0.050		1	2/6/2017 12:51:25 PM
Silver	ND	0.0050	mg/L		
EPA METHOD 8270C: PAHS					Analyst: DAN
Naphthalene	ND	0.50	μg/L	1	2/9/2017 2:55:59 PM
1-Methylnaphthalene	ND	0.50	μg/L	1	2/9/2017 2:55:59 PM
2-Methylnaphthalene	ND	0.50	μg/L	1	2/9/2017 2:55:59 PM
Acenaphthylene	ND	0.50	μg/L	1	2/9/2017 2:55:59 PM
Acenaphthene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Fluorene	ND	0.50	μg/L	1	2/9/2017 2:55:59 PM
Phenanthrene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Anthracene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Fluoranthene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Pyrene	ND	0.50	μg/L	1	2/9/2017 2:55:59 PM
Benz(a)anthracene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Chrysene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Benzo(b)fluoranthene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Benzo(k)fluoranthene	ND	0.50	μg/L	1	2/9/2017 2:55:59 PM
Benzo(a)pyrene	ND	0.50	μg/L	1	2/9/2017 2:55:59 PM
Dibenz(a,h)anthracene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Benzo(g,h,i)perylene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Indeno(1,2,3-cd)pyrene	ND	0.50	µg/L	1	2/9/2017 2:55:59 PM
Surr: N-hexadecane	61.6	15-176	%Rec	1	2/9/2017 2:55:59 PM
Surr: Benzo(e)pyrene	59.1	15-198	%Rec	1	2/9/2017 2:55:59 PM
EPA METHOD 8260B: VOLATILES					Analyst: DJF
	ND	0.50	mg/L	200	2/6/2017 8:26:17 PM
Benzene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
Toluene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
Ethylbenzene Methyl tert-butyl ether (MTBE)	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
1,2,4-Trimethylbenzene	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM
1,3,5-Trimethylbenzene 1,2-Dichloroethane (EDC)	ND	0.20	mg/L	200	2/6/2017 8:26:17 PM

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- Value above quantitation range E
- Analyte detected below quantitation limits Page 1 of 14 J
- Sample pH Not In Range P
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

# Received by OCD: 11/8/2023 4:26:09 PM

1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.

Santa Fe, NM 87505

Page 20/of 11 Form C-138 Revised 08/01/11

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

# REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR AFFROVAL TO ACCELT SOLID WASTE
I. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401
2. Originating Site: MAPL San Luis Pumping Station
3. Location of Material (Street Address, City, State or ULSTR): UL F Section 13 Township 17 North Range 3 East; 35.704883, -107.106298
Source and Description of Waste:  Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.  Description: Non Exempt/Non Hazardous Water from the compressor skids.  Estimated Volume 80 yd3 bbls Known Volume (to be entered by the operator at the end of the haul)
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby  Generator Signature  Generator Signature  Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.  **Operator Use Only: Waste Acceptance Frequency   Monthly   Weekly   Per Load**
⊠ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous be characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Chec the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, Thomas Long , representative for Enterprise Products Operating authorize to complete  Generator Signature
the required testing/sign the Generator Waste Testing Certification.
[,
5. Transporter: To Be Determined
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: *Agua Moss, LLC - Permit #: NM-01-009 Address of Facility: SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM
Method of Treatment and/or Disposal:  ☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other
Waste Acceptance Status:  APPROVED  DENIED (Must Be Maintained As Permanent Reco
PRINT NAME: GARYE Higgins TITLE: Since DATE: 12/17
SIGNATURE: TELEPHONE NO.:  Surface Waste Management Facility Authorized Agent



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

February 22, 2017

Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: San Luis OrderNo.: 1702604

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/14/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

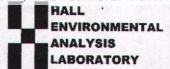
Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Received by OCD: 11/8/2023	A:26:09 PM (N to Y) solddud TiA		Page 22 of 117
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	BTEX + MTBE + TMB's (8021)  BTEX + MTBE + TPH (Gas only)  TPH 8015B (GRO J DRO J MRO)  TPH (Method 418.1)  EDB (Method 504.1)  PAH's (8310 o(8270 sims)  RCRA 8 Metals  Anions (F.CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )  8081 Pesticides / 8082 PCB's  8250B (VOA)  8270 (Semi-VOA)	X Y	Time: Relinquished by.  Received by:    11   Date Time Remarks: 8260; Full LIST Report   12   Time: Relinquished by.    13   Time: Relinquished by.   14   Time   T
Turn-Around Time:  Standard   Rush Project Name:  Project #:  San Luis Non Exampt 136-1	yes yes ature: Type	Variais Variais —001	Received by:  Re
Chain-of-Custody Record Client: SMA Smalling Address: 401 W Brondway Forming Address: 401 W Brondway Forming Address: 401 W Brondway Forming Address: 401 W Brondway	email or Fax#: ASh lecy Maxinxell Savac Package:  Cavac Package: C	21317 10:38 H50 Man Part	Date: Time: Relinquished by.  2)3/17/10 Relinquished by.  2/3/17/10 Relinquished by.  2/3/17/10 Relinquished by.  2/3/17/10 Relinquished by.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: SMA-FARM Work Order Num	ber: 1702604		RcptNo:	1
Received by/date: AT OZ (14)17			. 1 40	
Logged By:         Andy Jansson         2/14/2017 7:00:00           Completed By:         And Y Jankson         02/14/17           Reviewed By:         (e/a)         02/14/17	AM	04/200		
Chain of Custody				A province of the
1. Custody seals intact on sample bottles?	Yes 🗆	No 🗆	Not Present 🗹	
2. Is Chain of Custody complete?	Yes 🗸	No 🗆	Not Present	
3. How was the sample delivered?	Courier			
Log In				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗸	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes 🗌	No 🗸	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials	
11. Were any sample containers received broken?	Yes 🗆	No 🗹	# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🔽	No 🗆	for pH:	>12 unless noted
13. Are matrices correctly identified on Chain of Custody?	Yes 🔽	No 🗆	Adjusted? _	No
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		Re
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗆	No 🗆	NA 🗹	
Person Notified: Date	te T			
By Whom: Via	: eMail I	Phone  Fax	☐ In Person	
Regarding:			· · · · · · · · · · · · · · · · · · ·	
Client Instructions:				
17. Additional remarks:				
18. Cooler Information  Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 1.0 Good Yes				

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702604

22-Feb-17

Client:

Souder, Miller and Associates

Project:

Prep Date:

San Luis

Sample ID	MB-30292

SampType: MBLK Batch ID: 30292 TestCode: EPA 6010B: Total Recoverable Metals

Client ID:

PBW

2/20/2017 Analysis Date: 2/21/2017

RunNo: 40875

SeqNo: 1280535 Units: mg/L

Analyte	Result	PQL	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020					-556		

Barium	ND	0.020	
Cadmium	ND	0.0020	
Chromium	ND	0.0060	
Lead	ND	0.0050	
Selenium	ND	0.050	
Silver	ND	0.0050	

Sample ID LCS-30292

SampType: LCS

0.49

0.099

TestCode: EPA 6010B: Total Recoverable Metals

80

80

Client ID: LCSW

Selenium

Silver

Batch ID: 30292

Analysis Date: 2/21/2017

0.050

0.0050

RunNo: 40875

98.8

98.8

0

120

120

%RPD

**RPDLimit** 

Qual

Prep Date: 2/20/2017	Analysis	Date: 2/	21/2017		SeqNo: 1	280536	Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Arsenic	0.49	0.020	0.5000	0	98.1	80	120
Barium	0.49	0.020	0.5000	0	98.5	80	120
Cadmium	0.49	0.0020	0.5000	0	97.8	80	120
Chromium	0.49	0.0060	0.5000	0	97.4	80	120
Lead	0.48	0.0050	0.5000	0	96.7	80	120

0.5000

0.1000

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

% 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

Sample container temperature is out of limit as specified

Released to Imaging: 11/8/2023 4:32:22 PM

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# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702604 22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID MB-30261 SampType: MBLK TestCode: EPA Method 7470: Mercury

Client ID: PBW Batch ID: 30261 RunNo: 40811

Prep Date: 2/16/2017 Analysis Date: 2/16/2017 SegNo: 1278648 Units: mg/L

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

Mercury ND 0.00020

Sample ID LCS-30261 SampType: LCS TestCode: EPA Method 7470: Mercury

Client ID: LCSW Batch ID: 30261 RunNo: 40811

Prep Date: 2/16/2017 Analysis Date: 2/16/2017 SeqNo: 1278649 Units: mg/L

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

Mercury 0.0051 0.00020 0.005000 102 120

Sample ID 1702604-001BMS SampType: MS TestCode: EPA Method 7470: Mercury

Non Exempt BGT Batch ID: 30261 RunNo: 40811

Prep Date: 2/16/2017 Analysis Date: 2/16/2017 SeqNo: 1278651 Units: mg/L

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

0.0054 Mercury 0.00020 0.005000 0.0001036 105

Sample ID 1702604-001BMSD SampType: MSD TestCode: EPA Method 7470: Mercury

Client ID: Non Exempt BGT Batch ID: 30261 RunNo: 40811

Prep Date: 2/16/2017 Analysis Date: 2/16/2017 SeqNo: 1278652 Units: mg/L

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

Mercury 0.0056 0.00020 0.005000 0.0001036 110 75 125 3.86 20

### **Oualifiers:**

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % 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
- Sample container temperature is out of limit as specified

Page 9 of 10

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702604

22-Feb-17

Client:

Souder, Miller and Associates

Project:

San Luis

Sample ID Icsd-30268	Samp <sup>*</sup>	Type: LC	SD	Tes	tCode: El					
Client ID: LCSS02	Batc	h ID: 30	268	F	RunNo: 40880					
Prep Date: 2/17/2017	Analysis [	Date: 2/	21/2017	5	SeqNo: 1	280963	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Benzo(k)fluoranthene	15	0.50	20.00	0	72.7	38	154	8.01	21	
Benzo(a)pyrene	14	0.50	20.00	0	72.2	38.6	153	2.67	24.8	
Dibenz(a,h)anthracene	16	0.50	20.00	0	81.3	39.7	155	12.7	26	
Benzo(g,h,i)perylene	15	0.50	20.00	0	75.7	39.6	154	11.6	20	
ndeno(1,2,3-cd)pyrene	15	0.50	20.00	0	76.6	19.1	153	12.0	20	
Surr: N-hexadecane	60		87.60		67.9	15	176	0	0	
Surr: Benzo(e)pyrene	14		20.00		71.4	15	198	0	0	
Sample ID mb-30268	Samp <sup>7</sup>	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8270C: PAHs			
Client ID: PBW	Batc	h ID: 30	268	RunNo: 40880						
Prep Date: 2/17/2017	Analysis I	Date: 2/	21/2017		SeqNo: 1	280964	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50						11-11-		
	ND	0.50								
1-Methylnaphthalene	ND									
	ND	0.50								
2-Methylnaphthalene										
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthene	ND	0.50								

Anthracene	ND	0.50					
Fluoranthene	ND	0.50					
Pyrene	ND	0.50					
Benz(a)anthracene	ND	0.50					
Chrysene	ND	0.50					
Benzo(b)fluoranthene	ND	0.50					
Benzo(k)fluoranthene	ND	0.50					
Benzo(a)pyrene	ND	0.50					
Dibenz(a,h)anthracene	ND	0.50					
Benzo(g,h,i)perylene	ND	0.50					
Indeno(1,2,3-cd)pyrene	ND	0.50					
Surr: N-hexadecane	62		87.60	71.1	15	176	
Surr: Benzo(e)pyrene	13		20.00	66.2	15	198	

0.50

### Qualifiers:

Phenanthrene

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

Page 8 of 10

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702604

22-Feb-17

Client:

Souder, Miller and Associates

Project:

San Luis

Sample ID Ics-30268	Samp	Type: LC	s	Tes	tCode: El	PA Method	8270C: PAH			
Client ID: LCSW	Batc	h ID: 30	268	F	RunNo: 4	0880				
Prep Date: 2/17/2017	Analysis [	Date: 2/	21/2017	5	SeqNo: 1	280962	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	13	0.50	20.00	0	65.1	37.4	120			
1-Methylnaphthalene	13	0.50	20.00	0	62.9	39.3	121			
2-Methylnaphthalene	13	0.50	20.00	0	64.4	37.8	122			
Acenaphthylene	15	0.50	20.00	0	72.8	37	124			
Acenaphthene	15	0.50	20.00	0	76.3	35.6	123			
Fluorene	16	0.50	20.00	0	78.1	35.2	122			
Phenanthrene	15	0.50	20.00	0	74.2	38.8	122			
Anthracene	15	0.50	20.00	0	73.8	37.5	125			
Fluoranthene	15	0.50	20.00	0	73.5	37.4	131			
Pyrene	16	0.50	20.00	0	79.2	27.5	140			
Benz(a)anthracene	15	0.50	20.00	0	75.8	25.4	141			
Chrysene	14	0.50	20.00	0	71.0	33.6	155			
Benzo(b)fluoranthene	14	0.50	20.00	0	72.5	39	153			
Benzo(k)fluoranthene	13	0.50	20.00	0	67.1	38	154			
Benzo(a)pyrene	14	0.50	20.00	0	70.3	38.6	153			
Dibenz(a,h)anthracene	14	0.50	20.00	0	71.6	39.7	155			
Benzo(g,h,i)perylene	13	0.50	20.00	0	67.4	39.6	154			
Indeno(1,2,3-cd)pyrene	14	0.50	20.00	0	67.9	19.1	153			

Sample ID Icsd-30268 Client ID: LCSS02

Surr: N-hexadecane

Surr: Benzo(e)pyrene

SampType: LCSD Batch ID: 30268 87.60

20.00

61

14

RunNo: 40880

69.8

69.8

15

15

TestCode: EPA Method 8270C: PAHs

176

198

Prep Date: 2/17/2017	Analysis E	Date: 2/	21/2017		SeqNo: 1	280963	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	11	0.50	20.00	0	53.0	37.4	120	20.5	20	R
1-Methylnaphthalene	11	0.50	20.00	0	56.0	39.3	121	11.6	26.8	
2-Methylnaphthalene	12	0.50	20.00	0	59.5	37.8	122	7.91	23.8	
Acenaphthylene	12	0.50	20.00	0	58.8	37	124	21.3	28.6	
Acenaphthene	13	0.50	20.00	0	64.1	35.6	123	17.4	27	
Fluorene	14	0.50	20.00	0	68.8	35.2	122	12.7	25.7	
Phenanthrene	15	0.50	20.00	0	75.9	38.8	122	2.27	20	
Anthracene	15	0.50	20.00	0	72.8	37.5	125	1.36	21.2	
Fluoranthene	16	0.50	20.00	0	78.8	37.4	131	6.96	21.8	
Pyrene	14	0.50	20.00	0	68.9	27.5	140	13.9	31.1	
Benz(a)anthracene	15	0.50	20.00	0	76.9	25.4	141	1.44	26.6	
Chrysene	15	0.50	20.00	0	76.9	33.6	155	7.98	21.2	
Benzo(b)fluoranthene	16	0.50	20.00	0	77.5	39	153	6.67	20	

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % 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
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 7 of 10

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604

22-Feb-17

Client: Souder, Miller and Associates

**Project:** San Luis

Sample ID rb	SampType: MBLK		Tes	TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: A40747			F	RunNo: 4	0747				
Prep Date:	Analysis D	Date: 2/	15/2017		SeqNo: 1	277596	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0		P2 34 T 12	FATT I					Fig. 1
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.3	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

В

Page 6 of 10

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID rb	Sampl	ype: MB	LK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batcl	n ID: A40	747	F	RunNo: 4	0747				
Prep Date:	Analysis D	Date: 2/	15/2017	\$	SeqNo: 1	277596	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-Chlorotoluene	ND	1.0						Man of the last		717
is-1,2-DCE	ND	1.0								
is-1,3-Dichloropropene	ND	1.0								
,2-Dibromo-3-chloropropane	ND	2.0								
ibromochloromethane	ND	1.0								
ibromomethane	ND	1.0								
,2-Dichlorobenzene	ND	1.0								
,3-Dichlorobenzene	ND	1.0								
,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
,1-Dichloroethane	ND	1.0								
,1-Dichloroethene	ND	1.0								
,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
,2-Dichloropropane	ND	2.0								
,1-Dichloropropene	ND	1.0								
lexachlorobutadiene	ND	1.0								
-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
-Isopropyltoluene	ND	1.0								
-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
-Butylbenzene	ND	3.0								
-Propylbenzene	ND	1.0								
ec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
ert-Butylbenzene	ND	1.0								
,1,1,2-Tetrachloroethane	ND	1.0								
,1,2,2-Tetrachloroethane	ND	2.0								
etrachloroethene (PCE)	ND	1.0								
rans-1,2-DCE	ND	1.0								
ans-1,3-Dichloropropene	ND	1.0								
,2,3-Trichlorobenzene	ND	1.0								
,2,4-Trichlorobenzene	ND	1.0								
,1,1-Trichloroethane	ND	1.0								
,1,2-Trichloroethane	ND	1.0								
richloroethene (TCE)	ND	1.0								
richlorofluoromethane	ND	1.0								
,2,3-Trichloropropane	ND	2.0								

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 10

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID 100ng Ics	Samp	Type: LC	S	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch ID: A40747			F	RunNo: 4	0747				
Prep Date:	Analysis D	Date: 2/	15/2017	5	SeqNo: 1	277595	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	22	1.0	20.00	0	111	70	130			
Chlorobenzene	23	1.0	20.00	0	115	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	104	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.5	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.4	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID rb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW Batch ID: A40747 RunNo: 40747

Prep Date: Analysis Date: 2/15/2017 SeqNo: 1277596 Units: µg/L

Prep Date:	Analysis E	Date: 2/	15/2017	8	SeqNo: 1	277596	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0	A CONTRACT							
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Lab Order 1702604

Date Reported: 2/22/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates Client Sample ID: Non Exempt BGT

 Project:
 San Luis
 Collection Date: 2/13/2017 10:33:00 AM

 Lab ID:
 1702604-001
 Matrix: AQUEOUS
 Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES		100		Analyst	: BCN
n-Butylbenzene	ND	0.60	mg/L	200 2/15/2017 2:56:00 PM	A40747
n-Propylbenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
sec-Butylbenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
Styrene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
tert-Butylbenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
1,1,1,2-Tetrachloroethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
1,1,2,2-Tetrachloroethane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A40747
Tetrachloroethene (PCE)	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
trans-1,2-DCE	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
trans-1,3-Dichloropropene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
1,2,3-Trichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
1,2,4-Trichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
1,1,1-Trichloroethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
1,1,2-Trichloroethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
Trichloroethene (TCE)	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
Trichlorofluoromethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
1,2,3-Trichloropropane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A40747
Vinyl chloride	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
Xylenes, Total	ND	0.30	mg/L	200 2/15/2017 2:56:00 PM	A40747
Surr: 1,2-Dichloroethane-d4	90.5	70-130	%Rec	200 2/15/2017 2:56:00 PM	A40747
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	200 2/15/2017 2:56:00 PM	A40747
Surr: Dibromofluoromethane	97.9	70-130	%Rec	200 2/15/2017 2:56:00 PM	A40747
Surr: Toluene-d8	102	70-130	%Rec	200 2/15/2017 2:56:00 PM	A40747

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Analytical Report Lab Order 1702604

Date Reported: 2/22/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Non Exempt BGT

Project: San Luis

Collection Date: 2/13/2017 10:33:00 AM

Lab ID: 1702604-001

Matrix: AQUEOUS

Received Date: 2/14/2017 7:00:00 AM

analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	BCN
1,2-Dibromoethane (EDB)	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
Naphthalene	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A4074
1-Methylnaphthalene	ND	0.80	mg/L	200 2/15/2017 2:56:00 PM	A4074
2-Methylnaphthalene	ND	0.80	mg/L	200 2/15/2017 2:56:00 PM	A4074
Acetone	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A4074
Bromobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Bromodichloromethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Bromoform	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Bromomethane	ND	0.60	mg/L	200 2/15/2017 2:56:00 PM	A4074
2-Butanone	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A4074
Carbon disulfide	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A4074
Carbon Tetrachloride	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Chlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Chloroethane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A4074
Chloroform	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Chloromethane	ND	0.60	mg/L	200 2/15/2017 2:56:00 PM	A4074
2-Chlorotoluene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
4-Chlorotoluene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
cis-1,2-DCE	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
cis-1,3-Dichloropropene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,2-Dibromo-3-chloropropane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A4074
Dibromochloromethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Dibromomethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,2-Dichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,3-Dichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,4-Dichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Dichlorodifluoromethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,1-Dichloroethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,1-Dichloroethene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,2-Dichloropropane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,3-Dichloropropane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
2,2-Dichloropropane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,1-Dichloropropene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Hexachlorobutadiene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
2-Hexanone	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A4074
Isopropylbenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
4-Isopropyltoluene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
4-Methyl-2-pentanone	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A4074
Methylene Chloride	ND	0.60	mg/L	200 2/15/2017 2:56:00 PM	A4074

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Analytical Report Lab Order 1702604

Date Reported: 2/22/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

1702604-001

Client Sample ID: Non Exempt BGT

Project: San Luis

Lab ID:

Collection Date: 2/13/2017 10:33:00 AM Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY		1 1 - 3	1 - 20 N		Analyst	pmf
Mercury	ND	0.00020	mg/L	1	2/16/2017 6:05:14 PM	30261
EPA 6010B: TOTAL RECOVERABLE	METALS				Analyst	pmf
Arsenic	ND	0.020	mg/L	1	2/21/2017 11:44:34 AM	30292
Barium	0.058	0.020	mg/L	1	2/21/2017 11:44:34 AM	
Cadmium	0.013	0.0020	mg/L	1	2/21/2017 11:44:34 AM	
Chromium	0.0083	0.0060	mg/L	1	2/21/2017 11:44:34 AM	
Lead	ND	0.0050	mg/L	1	2/21/2017 11:44:34 AM	
Selenium	ND	0.050	mg/L	1	2/21/2017 11:44:34 AM	
Silver	ND	0.0050	mg/L	1	2/21/2017 11:44:34 AM	
EPA METHOD 8270C: PAHS					Analyst	DAM
Naphthalene	ND	0.50	µg/L	1	2/21/2017 12:56:34 PM	
1-Methylnaphthalene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	
2-Methylnaphthalene	ND	0.50	µg/L	1	2/21/2017 12:56:34 PM	
Acenaphthylene	ND	0.50	µg/L	1	2/21/2017 12:56:34 PM	
Acenaphthene	ND	0.50	µg/L	1	2/21/2017 12:56:34 PM	
Fluorene	ND	0.50	µg/L	1	2/21/2017 12:56:34 PM	
Phenanthrene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	30268
Anthracene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	30268
Fluoranthene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	30268
Pyrene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	30268
Benz(a)anthracene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	30268
Chrysene	ND	0.50	µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(b)fluoranthene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(k)fluoranthene	ND	0.50	µg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(a)pyrene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	30268
Dibenz(a,h)anthracene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	30268
Benzo(g,h,i)perylene	ND	0.50	μg/L	1	2/21/2017 12:56:34 PM	30268
Indeno(1,2,3-cd)pyrene	ND	0.50	µg/L	1	2/21/2017 12:56:34 PM	30268
Surr: N-hexadecane	64.0	15-176	%Rec	1	2/21/2017 12:56:34 PM	30268
Surr: Benzo(e)pyrene	63.4	15-198	%Rec	1	2/21/2017 12:56:34 PM	30268
EPA METHOD 8260B: VOLATILES					Analyst	BCN
Benzene	ND	0.50	mg/L	200	2/15/2017 2:56:00 PM	A4074
Toluene	ND	0.20	mg/L	200	2/15/2017 2:56:00 PM	A4074
Ethylbenzene	ND	0.20	mg/L	200	2/15/2017 2:56:00 PM	A4074
Methyl tert-butyl ether (MTBE)	ND	0.20	mg/L	200	2/15/2017 2:56:00 PM	A4074
1,2,4-Trimethylbenzene	ND	0.20	mg/L	200	2/15/2017 2:56:00 PM	A4074
1,3,5-Trimethylbenzene	ND	0.20	mg/L	200	2/15/2017 2:56:00 PM	A4074
1,2-Dichloroethane (EDC)	ND	0.20	mg/L	200	2/15/2017 2:56:00 PM	A4074

Matrix: AQUEOUS

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

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 1 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



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

February 22, 2017

Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: San Luis OrderNo.: 1702604

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/14/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

### Analytical Report Lab Order 1702604

Date Reported: 2/22/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

1702604-001

Client Sample ID: Non Exempt BGT

Project: San Luis

Lab ID:

Matrix: AQUEOUS

Collection Date: 2/13/2017 10:33:00 AM Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY				4		Analys	: pmf
Mercury	ND	0.00020		mg/L	1	2/16/2017 6:05:14 PM	30261
EPA 6010B: TOTAL RECOVERABLE	METALS					Analys	: pmf
Arsenic	ND	0.020		mg/L	1	2/21/2017 11:44:34 AM	30292
Barium	0.058	0.020		mg/L	1	2/21/2017 11:44:34 AN	
Cadmium	0.013	0.0020		mg/L	1	2/21/2017 11:44:34 AM	-
Chromium	0.0083	0.0060		mg/L	1	2/21/2017 11:44:34 AN	
Lead	ND	0.0050		mg/L	1	2/21/2017 11:44:34 AM	
Selenium	ND	0.050		mg/L	1	2/21/2017 11:44:34 AM	
Silver	ND	0.0050		mg/L	1	2/21/2017 11:44:34 AM	
EPA METHOD 8270C: PAHS	110	0.0000		mg/L		Analys	
	ND	0.50					
Naphthalene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	2000000000
1-Methylnaphthalene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	
2-Methylnaphthalene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	
Acenaphthylene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	The second
Acenaphthene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	
Fluorene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	
Phenanthrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	
Anthracene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	
Fluoranthene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	
Pyrene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	
Benz(a)anthracene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	
Chrysene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	
Benzo(b)fluoranthene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	
Benzo(k)fluoranthene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	
Benzo(a)pyrene	ND	0.50		μg/L	1	2/21/2017 12:56:34 PM	
Dibenz(a,h)anthracene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	
Benzo(g,h,i)perylene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	
Indeno(1,2,3-cd)pyrene	ND	0.50		µg/L	1	2/21/2017 12:56:34 PM	
Surr: N-hexadecane	64.0	15-176		%Rec	1	2/21/2017 12:56:34 PM	
Surr: Benzo(e)pyrene	63.4	15-198		%Rec	1	2/21/2017 12:56:34 PM	30268
EPA METHOD 8260B: VOLATILES						Analys	BCN
Benzene	ND	0.50		mg/L	200	2/15/2017 2:56:00 PM	A4074
Toluene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A4074
Ethylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A4074
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A4074
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A4074
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A4074
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	2/15/2017 2:56:00 PM	A4074

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
  - W Sample container temperature is out of limit as specified

Lab ID:

# **Analytical Report**

Lab Order 1702604

Date Reported: 2/22/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates Client Sample ID: Non Exempt BGT

Project: San Luis

1702604-001

Matrix: AQUEOUS

Collection Date: 2/13/2017 10:33:00 AM Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES		Y-15		Analyst	BCN
1,2-Dibromoethane (EDB)	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Naphthalene	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A4074
1-Methylnaphthalene	ND	0.80	mg/L	200 2/15/2017 2:56:00 PM	A4074
2-Methylnaphthalene	ND	0.80	mg/L	200 2/15/2017 2:56:00 PM	A4074
Acetone	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A4074
Bromobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Bromodichloromethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Bromoform	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Bromomethane	ND	0.60	mg/L	200 2/15/2017 2:56:00 PM	A4074
2-Butanone	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A4074
Carbon disulfide	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A4074
Carbon Tetrachloride	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Chlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Chloroethane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A4074
Chloroform	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Chloromethane	ND	0.60	mg/L	200 2/15/2017 2:56:00 PM	A4074
2-Chlorotoluene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
4-Chlorotoluene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
cis-1.2-DCE	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
cis-1,3-Dichloropropene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,2-Dibromo-3-chloropropane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A407
Dibromochloromethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
Dibromomethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
1,2-Dichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
1.3-Dichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
1,4-Dichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
Dichlorodifluoromethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
1.1-Dichloroethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
1,1-Dichloroethene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
1,2-Dichloropropane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
1,3-Dichloropropane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
2,2-Dichloropropane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A407
1,1-Dichloropropene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
Hexachlorobutadiene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
2-Hexanone	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A407
Isopropylbenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
4-Isopropyltoluene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A407
4-Methyl-2-pentanone	ND	2.0	mg/L	200 2/15/2017 2:56:00 PM	A407
Methylene Chloride	ND	0.60	mg/L	200 2/15/2017 2:56:00 PM	A407

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### **Analytical Report**

Lab Order 1702604

Date Reported: 2/22/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Non Exempt BGT

Project: San Luis

Collection Date: 2/13/2017 10:33:00 AM

Lab ID: 1702604-001

Matrix: AQUEOUS Received Date: 2/14/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES		11.	100	Analyst	BCN
n-Butylbenzene	ND	0.60	mg/L	200 2/15/2017 2:56:00 PM	A40747
n-Propylbenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
sec-Butylbenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A40747
Styrene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
tert-Butylbenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,1,1,2-Tetrachloroethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,1,2,2-Tetrachloroethane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A4074
Tetrachloroethene (PCE)	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
trans-1,2-DCE	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
trans-1,3-Dichloropropene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,2,3-Trichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,2,4-Trichlorobenzene	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,1,1-Trichloroethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,1,2-Trichloroethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Trichloroethene (TCE)	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Trichlorofluoromethane	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
1,2,3-Trichloropropane	ND	0.40	mg/L	200 2/15/2017 2:56:00 PM	A4074
Vinyl chloride	ND	0.20	mg/L	200 2/15/2017 2:56:00 PM	A4074
Xylenes, Total	ND	0.30	mg/L	200 2/15/2017 2:56:00 PM	A40747
Surr: 1,2-Dichloroethane-d4	90.5	70-130	%Rec	200 2/15/2017 2:56:00 PM	A40747
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	200 2/15/2017 2:56:00 PM	A40747
Surr: Dibromofluoromethane	97.9	70-130	%Rec	200 2/15/2017 2:56:00 PM	A40747
Surr: Toluene-d8	102	70-130	%Rec	200 2/15/2017 2:56:00 PM	A40747

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 10
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#:

Page 4 of 10

1702604

22-Feb-17

Client:

Souder, Miller and Associates

Project:

San Luis

Sample ID 100ng Ics Client ID: LCSW	SampType: LCS  Batch ID: A40747  Analysis Date: 2/15/2017				tCode: E RunNo: 4		8260B: VOL	ATILES		
Prep Date:				8	SeqNo: 1	277595	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130	1777		
Toluene	22	1.0	20.00	0	111	70	130			
Chlorobenzene	23	1.0	20.00	0	115	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	104	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.5	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.4	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID rb	Samp	Туре: МІ	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batc	h ID: A4	10747	F	RunNo: 4	0747				
Prep Date:	Analysis [	Date: 2	/15/2017		SeqNo: 1	277596	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								BYEN-
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702604

22-Feb-17

Client:

Souder, Miller and Associates

Project:

San Luis

Sample ID rb	Samp	Type: M	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batc	h ID: A	10747		RunNo: 4		*			
Prep Date:	Analysis [	Date: 2	15/2017	5	SeqNo: 1	277596	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Chlorotoluene	ND	1.0					· ngiitaiin	701111111	THE DENIM	Quai
cis-1,2-DCE	ND	1.0						4-1		
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
,2-Dichlorobenzene	ND	1.0								
,3-Dichlorobenzene	ND	1.0								
,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
,1-Dichloroethane	ND	1.0								
,1-Dichloroethene	ND	1.0								
,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
,2-Dichloropropane	ND	2.0								
,1-Dichloropropene	ND	1.0								
lexachlorobutadiene	ND	1.0								
-Hexanone	ND	10								
opropylbenzene	ND	1.0								
-Isopropyltoluene	ND	1.0								
-Methyl-2-pentanone	ND	10								
lethylene Chloride	ND	3.0								
-Butylbenzene	ND	3.0								
-Propylbenzene	ND	1.0								
ec-Butylbenzene	ND	1.0								
tyrene	ND									
ert-Butylbenzene	ND	1.0								
,1,1,2-Tetrachloroethane	ND ND	1.0								
1,2,2-Tetrachloroethane		1.0								
etrachloroethene (PCE)	ND ND	2.0								
ans-1,2-DCE	ND	1.0								
A STATE OF TAXABLE PARTY.	ND	1.0								
ans-1,3-Dichloropropene 2,3-Trichlorobenzene	ND	1.0								
2,4-Trichlorobenzene	ND	1.0								
	ND	1.0								
1,1-Trichloroethane	ND	1.0								
1,2-Trichloroethane	ND	1.0								
ichloroethene (TCE)	ND	1.0								
ichlorofluoromethane	ND	1.0								
2,3-Trichloropropane	ND	2.0								

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 10

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID rb Client ID: PBW	SampType: MBLK Batch ID: A40747				tCode: E RunNo: 4	ATILES				
Prep Date:	Analysis [	Date: 2/	15/2017	SeqNo: 1277596			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0			W. S.			THE PERSON		
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.3	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 10

## Hall Environmental Analysis Laboratory, Inc.

WO#:

Page 7 of 10

1702604

22-Feb-17

Client:

Souder, Miller and Associates

14

61

14

0.50

20.00

87.60

20.00

Project:

Indeno(1,2,3-cd)pyrene

Surr: N-hexadecane

Surr: Benzo(e)pyrene

San Luis

Sample ID Ics-30268	Samp	Type: LC	S	Tes	tCode: E	PA Method	8270C: PAHs			
Client ID: LCSW	Batc	h ID: 30	268	F	RunNo: 4	0880				
Prep Date: 2/17/2017	Analysis [	Date: 2/	21/2017		SeqNo: 1	280962	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	D RPDLimit	Qual
Naphthalene	13	0.50	20.00	0	65.1	37.4	120			
1-Methylnaphthalene	13	0.50	20.00	0	62.9	39.3	121			
2-Methylnaphthalene	13	0.50	20.00	0	64.4	37.8	122			
Acenaphthylene	15	0.50	20.00	0	72.8	37	124			
Acenaphthene	15	0.50	20.00	0	76.3	35.6	123			
Fluorene	16	0.50	20.00	0	78.1	35.2	122			
Phenanthrene	15	0.50	20.00	0	74.2	38.8	122			
Anthracene	15	0.50	20.00	0	73.8	37.5	125			
Fluoranthene	15	0.50	20.00	0	73.5	37.4	131			
Pyrene	16	0.50	20.00	0	79.2	27.5	140			
Benz(a)anthracene	15	0.50	20.00	0	75.8	25.4	141			
Chrysene	14	0.50	20.00	0	71.0	33.6	155			
Benzo(b)fluoranthene	14	0.50	20.00	0	72.5	39	153			
Benzo(k)fluoranthene	13	0.50	20.00	0	67.1	38	154			
Benzo(a)pyrene	14	0.50	20.00	0	70.3	38.6	153			
Dibenz(a,h)anthracene	14	0.50	20.00	0	71.6	39.7	155			
Benzo(g,h,i)perylene	13	0.50	20.00	0	67.4	39.6	154			

67.9

69.8

69.8

19.1

15

15

153

176

198

Sample ID Icsd-30268	SampT	ype: LC	SD	Tes	tCode: E	PA Method	8270C: PAHs				
Client ID: LCSS02	Batcl	h ID: 30	268	F	RunNo: 4	0880					
Prep Date: 2/17/2017	Analysis E	Date: 2/	21/2017		SeqNo: 1	280963	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Naphthalene	11	0.50	20.00	0	53.0	37.4	120	20.5	20	R	
1-Methylnaphthalene	11	0.50	20.00	0	56.0	39.3	121	11.6	26.8		
2-Methylnaphthalene	12	0.50	20.00	0	59.5	37.8	122	7.91	23.8		
Acenaphthylene	12	0.50	20.00	0	58.8	37	124	21.3	28.6		
Acenaphthene	13	0.50	20.00	0	64.1	35.6	123	17.4	27		
Fluorene	14	0.50	20.00	0	68.8	35.2	122	12.7	25.7		
Phenanthrene	15	0.50	20.00	0	75.9	38.8	122	2.27	20		
Anthracene	15	0.50	20.00	0	72.8	37.5	125	1.36	21.2		
Fluoranthene	16	0.50	20.00	0	78.8	37.4	131	6.96	21.8		
Pyrene	14	0.50	20.00	0	68.9	27.5	140	13.9	31.1		
Benz(a)anthracene	15	0.50	20.00	0	76.9	25.4	141	1.44	26.6		
Chrysene	15	0.50	20.00	0	76.9	33.6	155	7.98	21.2		
Benzo(b)fluoranthene	16	0.50	20.00	0	77.5	39	153	6.67	20		

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702604

22-Feb-17

Client:

Souder, Miller and Associates

SampType: MBLK

Project:

Sample ID mb-30268

San Luis

Sample ID Icsd-30268		SampType: LCSD  Batch ID: 30268			TestCode: EPA Method 8270C: PAHs						
Client ID: LCSS02 Prep Date: 2/17/2017	Batci Analysis D		268 21/2017		RunNo: 4 SeqNo: 1		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzo(k)fluoranthene	15	0.50	20.00	0	72.7	38	154	8.01	21		
Benzo(a)pyrene	14	0.50	20.00	0	72.2	38.6	153	2.67	24.8		
Dibenz(a,h)anthracene	16	0.50	20.00	0	81.3	39.7	155	12.7	26		
Benzo(g,h,i)perylene	15	0.50	20.00	0	75.7	39.6	154	11.6	20		
ndeno(1,2,3-cd)pyrene	15	0.50	20.00	0	76.6	19.1	153	12.0	20		
Surr: N-hexadecane	60		87.60		67.9	15	176	0	0		
Surr: Benzo(e)pyrene	14		20.00		71.4	15	198	0	0		

TestCode: EPA Method 8270C: PAHs

Client ID: PBW	Batc	h ID: 30	268	F	RunNo: 4	0880				
Prep Date: 2/17/2017	Analysis [	Date: 2/	21/2017	5	SeqNo: 1	280964	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50				9				
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	62		87.60		71.1	15	176			
Surr: Benzo(e)pyrene	13		20.00		66.2	15	198			

#### 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
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1702604

22-Feb-17

Client: Souder, Miller and Associates

Project: San Luis

Sample ID MB-30261 SampType: MBLK TestCode: EPA Method 7470: Mercury

Client ID: PBW Batch ID: 30261 RunNo: 40811

Prep Date: 2/16/2017 Analysis Date: 2/16/2017 SeqNo: 1278648 Units: mg/L

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

Mercury ND 0.00020

Sample ID LCS-30261 SampType: LCS TestCode: EPA Method 7470: Mercury

Client ID: LCSW Batch ID: 30261 RunNo: 40811

Prep Date: 2/16/2017 Analysis Date: 2/16/2017 SeqNo: 1278649 Units: mg/L

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

Mercury 0.0051 0.00020 0.005000

Sample ID 1702604-001BMS SampType: MS TestCode: EPA Method 7470: Mercury

Client ID: Non Exempt BGT Batch ID: 30261 RunNo: 40811

Prep Date: 2/16/2017 Analysis Date: 2/16/2017 SeqNo: 1278651 Units: mg/L

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

Mercury 0.0054 0.00020 0.005000 0.0001036 105 125

Sample ID 1702604-001BMSD SampType: MSD TestCode: EPA Method 7470: Mercury

Client ID: Non Exempt BGT Batch ID: 30261 RunNo: 40811

Prep Date: 2/16/2017 Analysis Date: 2/16/2017 SeqNo: 1278652 Units: mg/L

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

Mercury 0.0056 0.00020 0.005000 0.0001036 110 3.86

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Page 9 of 10
- Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1702604

22-Feb-17

Client:

Souder, Miller and Associates

0.0050

ND

Project:

Silver

San Luis

Sample ID MB-30292	Samp	Type: MI	BLK	Tes	tCode: E	PA 6010B:	Total Recove	rable Meta	als	
Client ID: PBW	Bato	Batch ID: 30292			RunNo: 4	0875				
Prep Date: 2/20/2017	Analysis	Date: 2	/21/2017	5	SeqNo: 1	280535	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								

Sample ID LCS-30292	Samp	Type: LC	s	Tes	als					
Client ID: LCSW	Bato	Batch ID: 30292			RunNo: 4					
Prep Date: 2/20/2017	Analysis Date: 2/21/2017			8	280536	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.49	0.020	0.5000	0	98.1	80	120			
Barium	0.49	0.020	0.5000	0	98.5	80	120			
Cadmium	0.49	0.0020	0.5000	0	97.8	80	120			
Chromium	0.49	0.0060	0.5000	0	97.4	80	120			
Lead	0.48	0.0050	0.5000	0	96.7	80	120			
Selenium	0.49	0.050	0.5000	0	98.8	80	120			
Silver	0.099	0.0050	0.1000	0	98.8	80	120			

#### Qualifiers:

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

Page 10 of 10

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

Received by OCD: 11/8/2023 4:26:09 PM
1025 H. French Dr., Hobbs, NM 88240
2istrict II
1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Page 45 of 117 Form C-138 Revised 08/01/11

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

I. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401
2. Originating Site: MAPL Lyborrk Pumping Station
3. Location of Material (Street Address, City, State or ULSTR): UL C Section 14 Township 23 North Range 7 West; 36.232901, -107.545978
I. Source and Description of Waste: Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.  Description: Non Exempt/Non Hazardous Water from the compressor skids.  Estimated Volume 80 yd3 bbls Known Volume (to be entered by the operator at the end of the haul)
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby  Generator Signature  certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.  **Operator Use Only: Waste Acceptance Frequency   Monthly   Weekly   Per Load**
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
Thomas Long, representative for Enterprise Products Operating authorize to complete  Generator Signature
the required testing/sign the Generator Waste Testing Certification.
, representative for Agua Moss, LLC do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 9.15.36 NMAC.
. Transporter: To Be Determined
Name and Facility Permit #: *Agua Moss, LLC - Permit #: NM-01-009  Address of Facility: SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM  Method of Treatment and/or Disposal:  Bevaporation Injection Treating Plant Landfarm Landfill Other  Waste Acceptance Status:  APPROVED DENIED (Must Be Maintained As Permanent Record)  PRINT NAME: SAME Highes TITLE:
SIGNATURE: TELEPHONE NO.:  Surface Waste Management Facility Authorized Agent



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

February 08, 2017

Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: Lybrook Station OrderNo.: 1702073

#### Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/2/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

HALL ENVIDONMENTAL	ANALYSIS LABORATORY		109				(N 10	) J.)	səlddu8 riA		Remarks: 826 Full List Report TELP Courtement AT JCCF Livoits Invoice: Loterprise Ce Tem Long	alytical report.
2	30	mo	Albuquerque, NM 87109	505-345-4107			(A		8270 (Semi-		7 1	n the an
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2	SI	viror	pndr	Fax	Analysis			_	O,7) snoinA		1 Cigh P	De cles
ш	בי	allen	A		Ana				RCRA 8 Me	×	- W	Ilw et
	1	www.hallenvironmental.com	R	Tel. 505-345-3975		(SMIS)	_		PAH's (831	×	S. 8240 Full	fled da
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			4901 Hawkins NE -	Te.			7 (S. 185 )		BTEX + MT		Inverice :	b. An
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	1											this p
			Mitats.			WE11	44 Jan	2+CFL 0.6-180	HEAL NO 1763073	100-	Date Time 2/1/7 1818 2/2/17 0800	her accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
Time:	Rush		gross L			y MAXWEII	may w	emperature L2	Preservative Type	Vanous	1 Jouls	ccredited laborator
Turn-Around Time:	14 Standard	Project Name:	12	Project #		Project Manager.	Sampler: R	Sample Tem	Container Type and #	LAGING	Received by:	ontracted to other a
Chain-of-Custody Record	Souser miller + Assac	Bucabusy	Franciscoper Non 874		325-7535	Sous En wifter. Com			Sample Request ID	Lygnook RGT	Tellinquished by:	If necessary, samples submitted to Hall Environmental may be subcontracted to other
of-Cu	52 W	J.	fraga.		1	Asherzy Sous	Other		Matrix	420	Refinquished by.	samples sub
hain	Som	401	Mailing Address:		# Ko	email or Fax#: QA/QC Package: ☐ Standard	tation AP	(Type)	Тіте		1978   19	f necessary,
0	Client:		Mailing		Phone #:	email or Fax#:  QA/QC Package	Accreditation	□ EDD (Type)	Date	Z-1-17 15:00	7-1-n Date:	



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

# Sample Log-In Check List

Client Name:	SMA-FARM	Work Order Nu	mber: 1702073		RcptNo: 1
Received by/date	e: RE	02/02	1/7		Company (where the second seco
Logged By:	Ashley Gallegos	2/2/2017 8:00:00	AM	A	
Completed By:	Ashley Gallegos	2/2/2017 8:39:12	AM	A	
Reviewed By:	IO	2-2-17		. 0	
Chain of Cust	tody		F 11		
1. Custody seal	ls intact on sample bo	ottles?	Yes 🗆	No 🗌	Not Present
	ustody complete?		Yes 🗸	No []	Not Present
3. How was the	sample delivered?		Courier		
Log In					
4. Was an atter	mpt made to cool the	samples?	Yes 🗸	No 🗆	NA 🗆
5. Were all sam	ples received at a ter	mperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
6. Sample(s) in	proper container(s)?		Yes 🔽	No 🗆	
7. Sufficient san	nple volume for Indica	ated test(s)?	Yes 🗸	No []	
		G) properly preserved?	Yes 🗸	No 🗆	
	ative added to bottles		Yes 🗆	No 🗹	NA 🗆
10.VOA vials hav	ve zero headspace?		Yes 🗸	No 🗆	No VOA Vials
1. Were any sar	mple containers rece	ived broken?	Yes 🗆	No 🗹	# of preserved
2 Does nanosur	ork match bottle labe			. ["]	bottles checked
	ancies on chain of cu		Yes 🗸	No L	for pH: A or >12 unless no
3. Are matrices	correctly identified on	Chain of Custody?	Yes 🗹	No []	Adjusted? NO
	it analyses were requ		Yes 🔽	No 🗆	art
	ing times able to be nustomer for authoriza		Yes 🗸	No 🗌	Checked by:
	ing (if applicable tified of all discrepand		Yes 🗌	No 🗌	NA 🗹
Person			production to contract of the	NO 🗆	NA IZI
By Who		Via	ite j a: [ eMail []P	hone   Fax	□ In Person
Regardin	Name and Address of the Owner, where the Owner, which is	VIC	.     Gividii   _   F	none   Fax	[_] in Person
	structions:				
7. Additional ren	marks:		*********	-	
8. Cooler Inform	mation				
Cooler No	Temp °C Condi		Seal Date	Signed By	
1	1.8 Good	Yes			

### Hall Environmental Analysis Laboratory, Inc.

0.0050

WO#:

Page 10 of 10

1702073

08-Feb-17

Client: Souder, Miller and Associates

Project: Lybrook Station

Sample ID MB-30031	SampType: MBLK Batch ID: 30031			TestCode: EPA 6010B: Total Recoverable Metals							
Client ID: PBW				F	RunNo: 4	0536					
Prep Date: 2/2/2017	Analysis	Date: 2/	6/2017	5	SeqNo: 1	270041	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
_ead	ND	0.0050									
Selenium	ND	0.050									

Sample ID LCS-30031	Samp	Type: LC	s	TestCode: EPA 6010B: Total Recoverable Metals							
Client ID: LCSW	Bato	ch ID: 30	031	F	RunNo: 4	0536					
Prep Date: 2/2/2017	Analysis	Date: 2/	6/2017	8	SeqNo: 1	270042	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.48	0.020	0.5000	0	96.3	80	120		100		
Barium	0.47	0.020	0.5000	0	94.9	80	120				
Cadmium	0.47	0.0020	0.5000	0	94.1	80	120				
Chromium	0.48	0.0060	0.5000	0	95.5	80	120				
Lead	0.47	0.0050	0.5000	0	93.3	80	120				
Selenium	0.49	0.050	0.5000	0	97.4	80	120				
Silver	0.097	0.0050	0.1000	0	96.8	80	120				

#### Qualifiers:

Silver

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 11/8/2023 4:32:22 PM

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1702073

08-Feb-17

Client:

Souder, Miller and Associates

Project:

Lybrook Station

Sample ID MB-30033

2/2/2017

2/2/2017

SampType: MBLK

TestCode: EPA Method 7470: Mercury

**PBW** Client ID:

Batch ID: 30033

RunNo: 40486

Analysis Date: 2/2/2017

SeqNo: 1268703

Units: mg/L

Analyte

Prep Date:

PQL SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD **RPDLimit**  Qual

Mercury

ND 0.00020

Sample ID LCS-30033

Client ID: LCSW

Prep Date:

SampType: LCS Batch ID: 30033

TestCode: EPA Method 7470: Mercury

RunNo: 40486

SeqNo: 1268704

Units: mg/L

Analyte

Analysis Date: 2/2/2017 Result PQL

SPK value SPK Ref Val %REC

LowLimit HighLimit %RPD

**RPDLimit** 

Qual

Mercury

120

0.0049 0.00020 0.005000 98.1

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Released to Imaging: 11/8/2023 4:32:22 PM

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### Hall Environmental Analysis Laboratory, Inc.

WO#:

1702073

08-Feb-17

Client:

Souder, Miller and Associates

60

15

SampType: LCSD

Project:

Surr: N-hexadecane

Surr: Benzo(e)pyrene

Sample ID Icsd-30020

Lybrook Station

Sample ID Ics-30020	SampT	ype: LC	S	Tes	tCode: E					
Client ID: LCSW	Batch	ID: 30	020	-	RunNo: 4	10506				
Prep Date: 2/2/2017	Analysis D	ate: 2/	3/2017		SeqNo: 1	269472	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	16	0.50	20.00	0	82.0	38	154			-
Benzo(a)pyrene	16	0.50	20.00	0	80.4	38.6	153			
Dibenz(a,h)anthracene	17	0.50	20.00	0	84.4	39.7	155			
Benzo(g,h,i)perylene	16	0.50	20.00	0	79.6	39.6	154			
Indeno(1,2,3-cd)pyrene	16	0.50	20.00	0	82.4	19.1	153			

68.9

74.8

176

198

15

15

TestCode: EPA Method 8270C: PAHs

87.60

20.00

Client ID: LCSS02 Batch ID: 30020 RunNo: 40506 Prep Date: SeqNo: 1269473 2/2/2017 Analysis Date: 2/3/2017 Units: µg/L %REC %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val LowLimit **HighLimit** Qual Naphthalene 16 0.50 20.00 81.6 37.4 120 6.98 20 1-Methylnaphthalene 16 0 78.1 121 4.05 26.8 0.50 20.00 39.3 2-Methylnaphthalene 16 0.50 20.00 0 79.6 37.8 122 3.19 23.8 0 8.92 28.6 Acenaphthylene 16 0.50 20.00 82.0 37 124 Acenaphthene 17 0.50 20.00 0 83.2 35.6 123 5.56 27 Fluorene 17 0.50 20.00 0 86.8 35.2 122 12.5 25.7 0 122 6.90 20 Phenanthrene 18 0.50 20.00 91.4 38.8 Anthracene 17 0.50 20.00 0 86.6 37.5 125 2.93 21.2 Fluoranthene 131 21.8 19 0.50 20.00 0 95.3 37.4 12.2 Pyrene 18 0.50 20.00 0 92.3 27.5 140 7.65 31.1 8.28 Benz(a)anthracene 19 0.50 20.00 0 95.6 25.4 141 26.6 155 8.03 21.2 Chrysene 18 0.50 20.00 0 92.0 33.6 Benzo(b)fluoranthene 19 20.00 0 39 153 7.04 20 0.50 92.7 0 154 9.97 21 Benzo(k)fluoranthene 18 0.50 20.00 90.6 38 153 24.8 Benzo(a)pyrene 18 0.50 20.00 0 91.7 38.6 13.1 10.1 26 0 39.7 155 Dibenz(a,h)anthracene 19 0.50 20.00 93.4 Benzo(g,h,i)perylene 18 0.50 20.00 0 88.4 39.6 154 10.5 20 20 Indeno(1,2,3-cd)pyrene 19 0.50 20.00 0 92.7 19.1 153 11.8 87.60 176 0 0 Surr: N-hexadecane 62 71.2 15 Surr: Benzo(e)pyrene 15 20.00 76.4 15 198 0 0

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#:

Page 7 of 10

1702073 08-Feb-17

Client:

Souder, Miller and Associates

65

16

87.60

20.00

Project:

Lybrook Station

Sample ID mb-30020	Samp	ype: ME	BLK	Tes	tCode: E	PA Method	8270C: PAHs			
Client ID: PBW	Batc	n ID: 30	020	F	RunNo: 4	0506				
Prep Date: 2/2/2017	Analysis D	Date: 2/	3/2017	5	SeqNo: 1	269471	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50						-		
-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
henanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								

Sample ID Ics-30020	SampT	ype: LC	S	Tes	tCode: El	PA Method	8270C: PAHs				
Client ID: LCSW	Batcl	h ID: 30	020	F	RunNo: 4	0506					
Prep Date: 2/2/2017	Analysis D	Date: 2/	3/2017	\$	SeqNo: 1	269472	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Naphthalene	15	0.50	20.00	0	76.1	37.4	120				
1-Methylnaphthalene	15	0.50	20.00	0	75.0	39.3	121				
2-Methylnaphthalene	15	0.50	20.00	0	77.1	37.8	122				
Acenaphthylene	15	0.50	20.00	0	75.0	37	124				
Acenaphthene	16	0.50	20.00	0	78.7	35.6	123				
Fluorene	15	0.50	20.00	0	76.6	35.2	122				
Phenanthrene	17	0.50	20.00	0	85.3	38.8	122				
Anthracene	17	0.50	20.00	0	84.1	37.5	125				
Fluoranthene	17	0.50	20.00	0	84.3	37.4	131				
Pyrene	17	0.50	20.00	0	85.5	27.5	140				
Benz(a)anthracene	18	0.50	20.00	0	88.0	25.4	141				
Chrysene	17	0.50	20.00	0	84.9	33.6	155				
Benzo(b)fluoranthene	17	0.50	20.00	0	86.4	39	153				

#### Qualifiers:

Surr: N-hexadecane

Surr: Benzo(e)pyrene

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

74.5

81.8

176

198

15

15

- Analyte detected below quantitation limits J
- Sample pH Not In Range
- Sample container temperature is out of limit as specified

Reporting Detection Limit RL

Released to Imaging: 11/8/2023 4:32:22 PM

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1702073

08-Feb-17

Client: Souder, Mi

Souder, Miller and Associates

Project: Lybrook Station

Sample ID 100ng Ics	SampType: LCS			Tes	tCode: E	PA Method	ATILES			
Client ID: LCSW	Batcl	h ID: W	40507	RunNo: 40507						
Prep Date:	Analysis D	Date: 2/	3/2017	\$	SeqNo: 1	269583	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.4	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 10

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702073

08-Feb-17

Client: Souder, Miller and Associates

Project:

Lybrook Station

Sample ID rb	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Bato	h ID: W	40507	F	RunNo: 4	0507				
Prep Date:	Analysis [	Date: 2/	3/2017	5	SeqNo: 1	269582	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
ert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
rans-1,2-DCE	ND	1.0								
rans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
/inyl chloride	ND	1.0								
(ylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID 100ng Ics Client ID: LCSW		Type: LC		TestCode: EPA Method 8260B: VOLATILES RunNo: 40507								
Prep Date:	Analysis [	Date: 2/	3/2017		SeqNo: 1		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	20	1.0	20.00	0	99.3	70	130			ne man		
Toluene	21	1.0	20.00	0	105	70	130					
Chlorobenzene	20	1.0	20.00	0	100	70	130					

#### Qualifiers:

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

Page 5 of 10

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

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1702073

08-Feb-17

Client:

Souder, Miller and Associates

Project:

Lybrook Station

Sample ID rb	Sampl	ype: MB	LK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batc	n ID: W4	0507	F	RunNo: 4	0507				
Prep Date:	Analysis E	)ate: 2/3	3/2017	S	SeqNo: 1	269582	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	ND	1.0								
oluene	ND	1.0								
thylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
,2,4-Trimethylbenzene	ND	1.0								
,3,5-Trimethylbenzene	ND	1.0								
,2-Dichloroethane (EDC)	ND	1.0								
,2-Dibromoethane (EDB)	ND	1.0								
laphthalene	ND	2.0								
-Methylnaphthalene	ND	4.0								
-Methylnaphthalene	ND	4.0								
cetone	ND	10								
Iromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
-Chlorotoluene	ND	1.0								
sis-1,2-DCE	ND	1.0								
sis-1,3-Dichloropropene	ND	1.0								
,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
,2-Dichlorobenzene	ND	1.0								
,3-Dichlorobenzene	ND	1.0								
,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
,1-Dichloroethane	ND	1.0								
,1-Dichloroethene	ND	1.0								
,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 4 of 10

CLIENT: Souder, Miller and Associates

#### Analytical Report Lab Order 1702073

Date Reported: 2/8/2017

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Lybrook BGT

Project: Lybrook Station Collection Date: 2/1/2017 3:10:00 PM

Lab ID: 1702073-001 Matrix: AQUEOUS Received Date: 2/2/2017 8:00:00 AM

Analyses	Result	PQL (	Qual Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	DJF
n-Butylbenzene	ND	0.60	mg/L	200 2/3/2017 8:10:07 PM	W40507
n-Propylbenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
sec-Butylbenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
Styrene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
tert-Butylbenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
1,1,1,2-Tetrachloroethane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
1,1,2,2-Tetrachloroethane	ND	0.40	mg/L	200 2/3/2017 8:10:07 PM	W40507
Tetrachloroethene (PCE)	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
trans-1,2-DCE	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
trans-1,3-Dichloropropene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
1,2,3-Trichlorobenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
1,2,4-Trichlorobenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
1,1,1-Trichloroethane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
1,1,2-Trichloroethane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
Trichloroethene (TCE)	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
Trichlorofluoromethane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
1,2,3-Trichloropropane	ND	0.40	mg/L	200 2/3/2017 8:10:07 PM	W40507
Vinyl chloride	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W40507
Xylenes, Total	ND	0.30	mg/L	200 2/3/2017 8:10:07 PM	W40507
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	200 2/3/2017 8:10:07 PM	W40507
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	200 2/3/2017 8:10:07 PM	W40507
Surr: Dibromofluoromethane	103	70-130	%Rec	200 2/3/2017 8:10:07 PM	W40507
Surr: Toluene-d8	110	70-130	%Rec	200 2/3/2017 8:10:07 PM	W40507

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Analytical Report

Lab Order 1702073

Date Reported: 2/8/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Lybrook BGT

Project: Lybrook Station

Collection Date: 2/1/2017 3:10:00 PM

Lab ID: 1702073-001

Matrix: AQUEOUS Received Date: 2/2/2017 8:00:00 AM

Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	DJF
1,2-Dibromoethane (EDB)	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Naphthalene	ND	0.40	mg/L	200 2/3/2017 8:10:07 PM	W40507
1-Methylnaphthalene	ND	0.80	mg/L	200 2/3/2017 8:10:07 PM	W4050
2-Methylnaphthalene	ND	0.80	mg/L	200 2/3/2017 8:10:07 PM	W4050
Acetone	ND	2.0	mg/L	200 2/3/2017 8:10:07 PM	W4050
Bromobenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Bromodichloromethane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Bromoform	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Bromomethane	ND	0.60	mg/L	200 2/3/2017 8:10:07 PM	W4050
2-Butanone	ND	2.0	mg/L	200 2/3/2017 8:10:07 PM	W4050
Carbon disulfide	ND	2.0	mg/L	200 2/3/2017 8:10:07 PM	W4050
Carbon Tetrachloride	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Chlorobenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Chloroethane	ND	0.40	mg/L	200 2/3/2017 8:10:07 PM	W4050
Chloroform	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Chloromethane	ND	0.60	mg/L	200 2/3/2017 8:10:07 PM	W4050
2-Chlorotoluene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
4-Chlorotoluene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
cis-1,2-DCE	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
cis-1,3-Dichloropropene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
1,2-Dibromo-3-chloropropane	ND	0.40	mg/L	200 2/3/2017 8:10:07 PM	W4050
Dibromochloromethane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Dibromomethane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
1,2-Dichlorobenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
1,3-Dichlorobenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
1,4-Dichlorobenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Dichlorodifluoromethane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
1,1-Dichloroethane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
1,1-Dichloroethene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
1,2-Dichloropropane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
1,3-Dichloropropane	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
2,2-Dichloropropane	ND	0.40	mg/L	200 2/3/2017 8:10:07 PM	W4050
1,1-Dichloropropene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
Hexachlorobutadiene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
2-Hexanone	ND	2.0	mg/L	200 2/3/2017 8:10:07 PM	W4050
Isopropylbenzene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
4-Isopropyltoluene	ND	0.20	mg/L	200 2/3/2017 8:10:07 PM	W4050
4-Methyl-2-pentanone	ND	2.0	mg/L	200 2/3/2017 8:10:07 PM	W4050
Methylene Chloride	ND	0.60	mg/L	200 2/3/2017 8:10:07 PM	W4050

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

CLIENT: Souder, Miller and Associates

#### **Analytical Report** Lab Order 1702073

Date Reported: 2/8/2017

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Lybrook BGT

Collection Date: 2/1/2017 3:10:00 PM Project: Lybrook Station

Lab ID: 1702073-001 Received Date: 2/2/2017 8:00:00 AM Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst	pmf
Mercury	0.00086	0.00020		mg/L	1	2/2/2017 5:42:32 PM	30033
EPA 6010B: TOTAL RECOVERABLE M	METALS					Analyst	pmf
Arsenic	ND	0.020		mg/L	1	2/6/2017 12:02:31 PM	30031
Barium	0.050	0.020		mg/L	1	2/6/2017 12:02:31 PM	30031
Cadmium	ND	0.0020		mg/L	1	2/6/2017 12:02:31 PM	30031
Chromium	ND	0.0060		mg/L	1	2/6/2017 12:02:31 PM	30031
Lead	ND	0.0050		mg/L	1	2/6/2017 12:02:31 PM	30031
Selenium	ND	0.050		mg/L	1	2/6/2017 12:02:31 PM	30031
Silver	ND	0.0050		mg/L	1	2/6/2017 12:02:31 PM	30031
EPA METHOD 8270C: PAHS						Analyst	JDC
Naphthalene	ND	0.50		μg/L	1	2/3/2017 12:41:33 PM	30020
1-Methylnaphthalene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
2-Methylnaphthalene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Acenaphthylene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Acenaphthene	0.62	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Fluorene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Phenanthrene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Anthracene	ND	0.50		µg/L	1	2/3/2017 12:41:33 PM	30020
Fluoranthene	ND	2.5	D	μg/L	5	2/3/2017 1:06:49 PM	30020
Pyrene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benz(a)anthracene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Chrysene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benzo(b)fluoranthene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benzo(k)fluoranthene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benzo(a)pyrene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Dibenz(a,h)anthracene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Benzo(g,h,i)perylene	ND	2.5	D	μg/L	5	2/3/2017 1:06:49 PM	30020
Indeno(1,2,3-cd)pyrene	ND	2.5	D	µg/L	5	2/3/2017 1:06:49 PM	30020
Surr: N-hexadecane	88.8	15-176		%Rec	1	2/3/2017 12:41:33 PM	30020
Surr: Benzo(e)pyrene	75.5	15-198	D	%Rec	5	2/3/2017 1:06:49 PM	30020
EPA METHOD 8260B: VOLATILES						Analyst	: DJF
Benzene	ND	0.50		mg/L	200	2/3/2017 8:10:07 PM	W4050
Toluene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W4050
Ethylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W4050
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W4050
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W4050
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W4050
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	2/3/2017 8:10:07 PM	W4050

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
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Value above quantitation range D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Analyte detected below quantitation limits Page 1 of 10

Sample pH Not In Range ND Not Detected at the Reporting Limit RPD outside accepted recovery limits Reporting Detection Limit

Sample container temperature is out of limit as specified S % Recovery outside of range due to dilution or matrix



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

February 08, 2017

Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: Huerfano Station OrderNo.: 1702072

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/2/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order 1702072

Date Reported: 2/8/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Lab ID: 1702072-001

Project: Huerfano Station

Client Sample ID: Huerfano BGT

Collection Date: 2/1/2017 1:50:00 PM

Matrix: AQUEOUS Received Date: 2/2/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst:	pmf
Mercury	ND	0.00020		mg/L	1	2/2/2017 5:40:31 PM	30033
EPA 6010B: TOTAL RECOVERABLE N	METALS					Analyst:	pmf
Arsenic	ND	5.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Barium	ND	100		mg/L	1	2/6/2017 11:55:58 AM	30031
Cadmium	ND	1.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Chromium	ND	5.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Lead	ND	5.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Selenium	ND	1.0		mg/L	1	2/6/2017 11:55:58 AM	30031
Silver	ND	5.0		mg/L	1	2/6/2017 11:55:58 AM	30031
EPA METHOD 8270C: PAHS						Analyst:	
Naphthalene	ND	2.5		wall	1	2/3/2017 12:17:25 PM	30020
	ND	2.5		μg/L	1		30020
1-Methylnaphthalene	ND	2.5		μg/L		2/3/2017 12:17:25 PM	30020
2-Methylnaphthalene	ND	2.5		μg/L	1	2/3/2017 12:17:25 PM	30020
Acenaphthana	ND	2.5		μg/L	1	2/3/2017 12:17:25 PM 2/3/2017 12:17:25 PM	30020
Acenaphthene Fluorene	ND			μg/L	1		30020
Phenanthrene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	
	ND	2.5		µg/L		2/3/2017 12:17:25 PM	30020
Anthracene	ND	2.5		μg/L	1	2/3/2017 12:17:25 PM	30020
Fluoranthene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
Pyrene	ND	2.5	-	µg/L	1	2/3/2017 12:17:25 PM	30020
Benz(a)anthracene	ND	2.5	7	μg/L	1	2/3/2017 12:17:25 PM	30020
Chrysene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
Benzo(b)fluoranthene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
Benzo(k)fluoranthene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
Benzo(a)pyrene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
Dibenz(a,h)anthracene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
Benzo(g,h,i)perylene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
Indeno(1,2,3-cd)pyrene	ND	2.5		µg/L	1	2/3/2017 12:17:25 PM	30020
Surr: N-hexadecane	73.6	15-176		%Rec	1	2/3/2017 12:17:25 PM	30020
Surr: Benzo(e)pyrene	74.3	15-198	D	%Rec	1	2/3/2017 12:17:25 PM	30020
EPA METHOD 8260B: VOLATILES						Analyst:	DJF
Benzene	ND	0.50		mg/L	200	2/3/2017 6:43:02 PM	W4050
Toluene	0.23	0.20		mg/L	200	2/3/2017 6:43:02 PM	W4050
Ethylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W4050
Methyl tert-butyl ether (MTBE)	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W4050
1,2,4-Trimethylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W4050
1,3,5-Trimethylbenzene	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W4050
1,2-Dichloroethane (EDC)	ND	0.20		mg/L	200	2/3/2017 6:43:02 PM	W4050

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

#### **Analytical Report**

Lab Order 1702072

Date Reported: 2/8/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Huerfano BGT

Project: Huerfano Station

Collection Date: 2/1/2017 1:50:00 PM

Lab ID: 1702072-001

Matrix: AQUEOUS

Received Date: 2/2/2017 8:00:00 AM

Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	DJF
1,2-Dibromoethane (EDB)	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Naphthalene	ND	0.40	mg/L	200 2/3/2017 6:43:02 PM	W4050
1-Methylnaphthalene	ND	0.80	mg/L	200 2/3/2017 6:43:02 PM	W4050
2-Methylnaphthalene	ND	0.80	mg/L	200 2/3/2017 6:43:02 PM	W4050
Acetone	ND	2.0	mg/L	200 2/3/2017 6:43:02 PM	W4050
Bromobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Bromodichloromethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Bromoform	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Bromomethane	ND	0.60	mg/L	200 2/3/2017 6:43:02 PM	W4050
2-Butanone	ND	2.0	mg/L	200 2/3/2017 6:43:02 PM	W4050
Carbon disulfide	ND	2.0	mg/L	200 2/3/2017 6:43:02 PM	W4050
Carbon Tetrachloride	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Chlorobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Chloroethane	ND	0.40	mg/L	200 2/3/2017 6:43:02 PM	W4050
Chloroform	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Chloromethane	ND	0.60	mg/L	200 2/3/2017 6:43:02 PM	W4050
2-Chlorotoluene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
4-Chlorotoluene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
cis-1,2-DCE	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
cis-1,3-Dichloropropene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
1,2-Dibromo-3-chloropropane	ND	0.40	mg/L	200 2/3/2017 6:43:02 PM	W4050
Dibromochloromethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Dibromomethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
1,2-Dichlorobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
1,3-Dichlorobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
1,4-Dichlorobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Dichlorodifluoromethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
1,1-Dichloroethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
1,1-Dichloroethene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
1,2-Dichloropropane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
1,3-Dichloropropane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
2,2-Dichloropropane	ND	0.40	mg/L	200 2/3/2017 6:43:02 PM	W4050
1,1-Dichloropropene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
Hexachlorobutadiene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
2-Hexanone	ND	2.0	mg/L	200 2/3/2017 6:43:02 PM	W4050
Isopropylbenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
4-Isopropyltoluene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W4050
4-Methyl-2-pentanone	ND	2.0	mg/L	200 2/3/2017 6:43:02 PM	W4050
Methylene Chloride	ND	0.60	mg/L	200 2/3/2017 6:43:02 PM	W4050

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Analytical Report Lab Order 1702072

Date Reported: 2/8/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Huerfano Station

Lab ID: 1702072-001

Client Sample ID: Huerfano BGT

Collection Date: 2/1/2017 1:50:00 PM

Matrix: AQUEOUS Received Date: 2/2/2017 8:00:00 AM

Analyses	Result	PQL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	DJF
n-Butylbenzene	ND	0.60	mg/L	200 2/3/2017 6:43:02 PM	W40507
n-Propylbenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
sec-Butylbenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
Styrene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
tert-Butylbenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,1,1,2-Tetrachloroethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,1,2,2-Tetrachloroethane	ND	0.40	mg/L	200 2/3/2017 6:43:02 PM	W40507
Tetrachloroethene (PCE)	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
trans-1,2-DCE	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
trans-1,3-Dichloropropene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,2,3-Trichlorobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,2,4-Trichlorobenzene	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,1,1-Trichloroethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,1,2-Trichloroethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
Trichloroethene (TCE)	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
Trichlorofluoromethane	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
1,2,3-Trichloropropane	ND	0.40	mg/L	200 2/3/2017 6:43:02 PM	W40507
Vinyl chloride	ND	0.20	mg/L	200 2/3/2017 6:43:02 PM	W40507
Xylenes, Total	ND	0.30	mg/L	200 2/3/2017 6:43:02 PM	W40507
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	200 2/3/2017 6:43:02 PM	W40507
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	200 2/3/2017 6:43:02 PM	W40507
Surr: Dibromofluoromethane	103	70-130	%Rec	200 2/3/2017 6:43:02 PM	W40507
Surr: Toluene-d8	109	70-130	%Rec	200 2/3/2017 6:43:02 PM	W40507

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1702072 08-Feb-17

Client:

Souder, Miller and Associates

Project:

Huerfano Station

Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: W	40507	F	RunNo:	40507				
Prep Date:	Analysis D	ate: 2/	3/2017	5	SeqNo:	1269582	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Senzene	ND	1.0			TAXABLE SERVICES	3-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		200000		
oluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
,2,4-Trimethylbenzene	ND	1.0								
,3,5-Trimethylbenzene	ND	1.0								
,2-Dichloroethane (EDC)	ND	1.0								
,2-Dibromoethane (EDB)	ND	1.0								
laphthalene	ND	2.0								
-Methylnaphthalene	ND	4.0								
-Methylnaphthalene	ND	4.0								
cetone	ND	10								
romobenzene	ND	1.0								
romodichloromethane	ND	1.0								
romoform	ND	1.0								
romomethane	ND	3.0								
-Butanone	ND	10								
arbon disulfide	ND	10								
arbon Tetrachloride	ND	1.0								
hlorobenzene	ND	1.0								
hloroethane	ND	2.0								
hloroform	ND	1.0								
hloromethane	ND	3.0								
-Chlorotoluene	ND	1.0								
-Chlorotoluene	ND	1.0								
is-1,2-DCE	ND	1.0								
is-1,3-Dichloropropene	ND	1.0								
,2-Dibromo-3-chloropropane	ND	2.0								
libromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
,2-Dichlorobenzene	ND	1.0								
,3-Dichlorobenzene	ND	1.0								
4-Dichlorobenzene	ND	1.0								
ichlorodifluoromethane	ND	1.0								
1-Dichloroethane	ND	1.0								
,1-Dichloroethene	ND	1.0								
,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
2-Dichloropropane	ND	2.0								

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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## Hall Environmental Analysis Laboratory, Inc.

WO#:

1702072

08-Feb-17

Client:

Souder, Miller and Associates

Project:

Huerfano Station

Sample ID rb	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batc	h ID: W	10507	F	RunNo: 4	0507				
Prep Date:	Analysis [	Date: 2/	3/2017	8	SeqNo: 1	269582	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
,1-Dichloropropene	ND	1.0		The state of the s						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Hexachlorobutadiene	ND	1.0								
-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
-Isopropyltoluene	ND	1.0								
-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
-Butylbenzene	ND	3.0								
-Propylbenzene	ND	1.0								
ec-Butylbenzene	ND	1.0								
tyrene	ND	1.0								
ert-Butylbenzene	ND	1.0								
,1,1,2-Tetrachloroethane	ND	1.0								
,1,2,2-Tetrachloroethane	ND	2.0								
etrachloroethene (PCE)	ND	1.0								
ans-1,2-DCE	ND	1.0								
ans-1,3-Dichloropropene	ND	1.0								
,2,3-Trichlorobenzene	ND	1.0								
,2,4-Trichlorobenzene	ND	1.0								
,1,1-Trichloroethane	ND	1.0								
,1,2-Trichloroethane	ND	1.0								
richloroethene (TCE)	ND	1.0								
richlorofluoromethane	ND	1.0								
,2,3-Trichloropropane	ND	2.0								
inyl chloride	ND	1.0								
ylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID 100ng Ics Client ID: LCSW	SampType: LCS  Batch ID: W40507  Analysis Date: 2/3/2017			F	TestCode: EPA Method 8260B: VOLATILES RunNo: 40507						
Prep Date: Analyte	Result	PQL		SPK Ref Val	SeqNo: 1		Units: µg/L	0/ DDD	DDDI testi	01	
Benzene		-			%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
benzene	20	1.0	20.00	0	99.3	70	130				
Toluene	21	1.0	20.00	0	105	70	130				
Chlorobenzene	20	1.0	20.00	0	100	70	130				

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702072

08-Feb-17

Client:

Souder, Miller and Associates

Project:

Surr. Toluene-d8

Huerfano Station

Sample ID 100ng Ics	SampType: LCS Batch ID: W40507			Tes	tCode: E					
Client ID: LCSW				F	RunNo: 4					
Prep Date:	Analysis D	Date: 2/	3/2017	8	SeqNo: 1	269583	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr. 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.4	70	130			

106

70

130

10.00

Sample ID 1/020/2-001a ms	Samp	Type: MS	3	Tes	TestCode: EPA Method 8260B: VOLATILES						
Client ID: Huerfano BGT	Batc	h ID: W	40507	RunNo: 40507							
Prep Date:	Analysis Date: 2/3/2017			5	SeqNo: 1	269585	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	4.2	0.20	4.000	0.06920	103	70	130				
Toluene	4.5	0.20	4.000	0.2318	107	70	130				
Chlorobenzene	4.2	0.20	4.000	0	105	70	130				
1,1-Dichloroethene	4.5	0.20	4.000	0	112	70	130				
Trichloroethene (TCE)	4.2	0.20	4.000	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	2.1		2.000		105	70	130				
Surr: 4-Bromofluorobenzene	1.9		2.000		96.4	70	130				
Surr: Dibromofluoromethane	2.1		2.000		103	70	130				
Surr. Toluene-d8	2.1		2.000		106	70	130				

Sample ID 1702072-001a msc	Samp1	ype: MS	SD	TestCode: EPA Method 8260B: VOLATILES							
Client ID: Huerfano BGT	Batch ID: <b>W40507</b> Analysis Date: <b>2/3/2017</b>			F							
Prep Date:				SeqNo: 1269586			Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	4.0	0.20	4.000	0.06920	98.2	70	130	4.74	20		
Toluene	4.4	0.20	4.000	0.2318	105	70	130	2.05	20		
Chlorobenzene	4.1	0.20	4.000	0	103	70	130	2.03	20		
1,1-Dichloroethene	4.2	0.20	4.000	0	106	70	130	5.83	20		
Trichloroethene (TCE)	3.9	0.20	4.000	0	97.3	70	130	6.47	20		
Surr: 1,2-Dichloroethane-d4	2.2		2.000		108	70	130	0	0		
Surr: 4-Bromofluorobenzene	1.9		2.000		93.5	70	130	0	0		
Surr: Dibromofluoromethane	2.1		2.000		103	70	130	0	0		
Surr: Toluene-d8	2.2		2.000		108	70	130	0	0		

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 6 of 10

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1702072

08-Feb-17

Client: Souder, Miller and Associates

Project: Huerfano Station

Sample ID mb-30020	Samp	ype: ME	BLK	Tes	tCode: E	PA Method	8270C: PAHs	20		
Client ID: PBW	Batch ID: 30020			F	RunNo: 40506					
Prep Date: 2/2/2017	Analysis [	Date: 2/	3/2017	5	SeqNo: 1	269471	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	65		87.60		74.5	15	176			
Surr: Benzo(e)pyrene	16		20.00		81.8	15	198			

Sample ID Ics-30020 SampType: LCS		Tes	TestCode: EPA Method 8270C: PAHs							
Client ID: LCSW	Batch ID: 30020 Analysis Date: 2/3/2017			F	RunNo: 4	0506				
Prep Date: 2/2/2017				SeqNo: 1269472			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	15	0.50	20.00	0	76.1	37.4	120			
1-Methylnaphthalene	15	0.50	20.00	0	75.0	39.3	121			
2-Methylnaphthalene	15	0.50	20.00	0	77.1	37.8	122			
Acenaphthylene	15	0.50	20.00	0	75.0	37	124			
Acenaphthene	16	0.50	20.00	0	78.7	35.6	123			
Fluorene	15	0.50	20.00	0	76.6	35.2	122			
Phenanthrene	17	0.50	20.00	0	85.3	38.8	122			
Anthracene	17	0.50	20.00	0	84.1	37.5	125			
Fluoranthene	17	0.50	20.00	0	84.3	37.4	131			
Pyrene	17	0.50	20.00	0	85.5	27.5	140			
Benz(a)anthracene	18	0.50	20.00	0	88.0	25.4	141			
Chrysene	17	0.50	20.00	0	84.9	33.6	155			
Benzo(b)fluoranthene	17	0.50	20.00	0	86.4	39	153			

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 7 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1702072

08-Feb-17

Souder, Miller and Associates Client:

Project: Huerfano Station

Sample ID Ics-30020	SampT	ype: LC	S	Tes	TestCode: EPA Method 8270C: PAHs						
Client ID: LCSW	Client ID: LCSW Batch ID: 30020		F	RunNo: 4							
Prep Date: 2/2/2017	Analysis Date: 2/3/2017			SeqNo: 1269472			Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzo(k)fluoranthene	16	0.50	20.00	0	82.0	38	154				
Benzo(a)pyrene	16	0.50	20.00	0	80.4	38.6	153				
Dibenz(a,h)anthracene	17	0.50	20.00	0	84.4	39.7	155				
Benzo(g,h,i)perylene	16	0.50	20.00	0	79.6	39.6	154				
Indeno(1,2,3-cd)pyrene	16	0.50	20.00	0	82.4	19.1	153				
Surr: N-hexadecane	60		87.60		68.9	15	176				
Surr: Benzo(e)pyrene	15		20.00		74.8	15	198				

Sample ID Icsd-30020	SampType: LCSD Batch ID: 30020			Tes	TestCode: EPA Method 8270C: PAHs					
Client ID: LCSS02				F	RunNo: 4	0506				
Prep Date: 2/2/2017	Analysis D	Date: 2/	3/2017	8	SeqNo: 1	269473	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	16	0.50	20.00	0	81.6	37.4	120	6.98	20	
1-Methylnaphthalene	16	0.50	20.00	0	78.1	39.3	121	4.05	26.8	
2-Methylnaphthalene	16	0.50	20.00	0	79.6	37.8	122	3.19	23.8	
Acenaphthylene	16	0.50	20.00	0	82.0	37	124	8.92	28.6	
Acenaphthene	17	0.50	20.00	0	83.2	35.6	123	5.56	27	
Fluorene	17	0.50	20.00	0	86.8	35.2	122	12.5	25.7	
Phenanthrene	18	0.50	20.00	0	91.4	38.8	122	6.90	20	
Anthracene	17	0.50	20.00	0	86.6	37.5	125	2.93	21.2	
Fluoranthene	19	0.50	20.00	0	95.3	37.4	131	12.2	21.8	
Pyrene	18	0.50	20.00	0	92.3	27.5	140	7.65	31.1	
Benz(a)anthracene	19	0.50	20.00	0	95.6	25.4	141	8.28	26.6	
Chrysene	18	0.50	20.00	0	92.0	33.6	155	8.03	21.2	
Benzo(b)fluoranthene	19	0.50	20.00	0	92.7	39	153	7.04	20	
Benzo(k)fluoranthene	18	0.50	20.00	0	90.6	38	154	9.97	21	
Benzo(a)pyrene	18	0.50	20.00	0	91.7	38.6	153	13.1	24.8	
Dibenz(a,h)anthracene	19	0.50	20.00	0	93.4	39.7	155	10.1	26	
Benzo(g,h,i)perylene	18	0.50	20.00	0	88.4	39.6	154	10.5	20	
Indeno(1,2,3-cd)pyrene	19	0.50	20.00	0	92.7	19.1	153	11.8	20	
Surr: N-hexadecane	62		87.60		71.2	15	176	0	0	
Surr: Benzo(e)pyrene	15		20.00		76.4	15	198	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

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# Hall Environmental Analysis Laboratory, Inc.

WO#:

1702072

08-Feb-17

Client:

Souder, Miller and Associates

Project:

Huerfano Station

Sample ID MB-30033

SampType: MBLK

TestCode: EPA Method 7470: Mercury

Client ID: PBW Batch ID: 30033

RunNo: 40486

Prep Date: 2/2/2017 Analysis Date: 2/2/2017

SeqNo: 1268703

Units: mg/L

Analyte

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** 

Mercury

ND 0.00020

Sample ID LCS-30033

Prep Date: 2/2/2017

Client ID: LCSW

SampType: LCS

TestCode: EPA Method 7470: Mercury

Batch ID: 30033 Analysis Date: 2/2/2017 RunNo: 40486

SeqNo: 1268704

Units: mg/L HighLimit

%RPD

**RPDLimit** 

Page 9 of 10

Qual

Analyte

PQL SPK value SPK Ref Val %REC LowLimit

Mercury

0.0049 0.00020 0.005000

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Released to Imaging: 11/8/2023 4:32:22 PM

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1702072

08-Feb-17

Client:

Souder, Miller and Associates

Project:

Huerfano Station

Sample ID MB-30031	Samp	SampType: MBLK		TestCode: EPA 6010B: Total Recoverable Metals							
Client ID: PBW	Batch ID: <b>30031</b> Analysis Date: <b>2/6/2017</b>		F	RunNo: 4	0536						
Prep Date: 2/2/2017			SeqNo: 1270041			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
ead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050									

Sample ID LCS-30031	Samp	Type: LC	S	Tes	als						
Client ID: LCSW	Bato	h ID: 30	031	F	RunNo: 4	0536					
Prep Date: 2/2/2017	Analysis	Date: 2/	6/2017	8	SeqNo: 1	270042	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.48	0.020	0.5000	0	96.3	80	120				
Barium	0.47	0.020	0.5000	0	94.9	80	120				
Cadmium	0.47	0.0020	0.5000	0	94.1	80	120				
Chromium	0.48	0.0060	0.5000	0	95.5	80	120				
Lead	0.47	0.0050	0.5000	0	93.3	80	120				
Selenium	0.49	0.050	0.5000	0	97.4	80	120				
Silver	0.097	0.0050	0.1000	0	96.8	80	120				

#### Qualifiers:

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

Page 10 of 10

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

		Website: www.h	allenviro	nmenta	l.com		
Client Name:	SMA-FARM	Work Order Numbe	r: 1702	072		RcptNo:	1
Received by/date	e: KE	02/02/17					
Logged By:	Ashley Gallegos	2/2/2017 8:00:00 AM			A		
Completed By:	Ashley Gallegos	2/2/2017 8:33:52 AM			A		
Reviewed By:	ID	2-2-17			d		
Chain of Cus	tody	····	100				
1. Custody sea	Is intact on sample bottle	s?	Yes		No []	Not Present	
2. Is Chain of C	Custody complete?		Yes	~	No 🗌	Not Present	
3. How was the	sample delivered?		Cour	ier			
Log In							
4. Was an atte	mpt made to cool the san	nples?	Yes	V	No 🗆	NA []	
5. Were all sam	nples received at a tempe	rature of >0° C to 6.0°C	Yes	~	No 🗆	NA 🗀	
6. Sample(s) in	proper container(s)?		Yes	~	No 🗌		
7. Sufficient sample volume for indicated test(s)?				~	No 🗌		
8. Are samples	(except VOA and ONG)	properly preserved?	Yes	~	No 🗌		
9. Was preserve	ative added to bottles?		Yes		No 🗸	NA 🗔	
10.VOA vials ha	ve zero headspace?		Yes	~	No 🗆	No VOA Viais	
11. Were any sa	imple containers received	broken?	Yes		No 🗸		
Van						# of preserved bottles checked	
	ork match bottle labels? pancies on chain of custo	+u\	Yes	<b>V</b>	No 🗌	for pH:	>12 unless note
	correctly identified on Ch		Yes	~	No 🗀	Adjusted?	
	at analyses were requeste			V	No 🗆	-	^
15. Were all hold	ling times able to be met?		Yes		No 🗆	Checked by:	۵>
(If no, notify o	customer for authorization	1.)				100 40 40	
pecial Handl	ling (if applicable)						
16. Was client no	otified of all discrepancies	with this order?	Yes		No 🗆	NA 🗹	
Person	Notified:	Date	OCTABLE DES				
By Who	om:	Via:	[] eMa	il 🗍	Phone Fax	In Person	
Regard	ing:		-	A DEC LABOUR	AT THE REAL PROPERTY.	***********	
Client I	nstructions:			PARALITA			
17. Additional re	marks:			***			
18. Cooler Infor	mation						
	Temp °C   Condition		Seal Da	te	Signed By		
1	1.8 Good	Yes					

415/17

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138 Revised 08/01/11

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

#### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 **Originating Site:** Hart Canyon #1 Compressor Station Location of Material (Street Address, City, State or ULSTR): UL H Section 29 Township 31 North Range 10 West; 36.872934, -107.900317, San Juan County, NM 4. Source and Description of Waste: Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains. Description: Non Exempt/Non Hazardous Water from the compressor skids. Estimated Volume 100 yd3, bbls Known Volume (to be entered by the operator at the end of the haul) GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS 5. I, Thomas Long , representative or authorized agent for Enterprise Products Operating do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load exempt waste. RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS 4-5-17, representative for Enterprise Products Operating authorize to complete I, Thomas Long Generator Signature the required testing/sign the Generator Waste Testing Certification. do hereby certify that I, , representative for Agua Moss, LLC representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC. Transporter: To Be Determined **OCD Permitted Surface Waste Management Facility** Name and Facility Permit #: \*Agua Moss, LLC - Permit #: NM-01-009 Address of Facility: SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM Method of Treatment and/or Disposal: Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record) DATE: /2/17 PRINT NAME: TITLE: TELEPHONE NO .:

te Management Facility Authorized Agent

4/5/17



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

OrderNo.: 1703B67

April 04, 2017

Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: Hart Canyon 1

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/23/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manage:

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1703B6

Date Reported: 4/4/201\*

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: South BGT

Project: Hart Canyon 1

Collection Date: 3/21/2017 10:50:00 AM

Lab ID: 1703B67-001 Matrix: AQUEOUS Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	DJF
1,2-Dibromoethane (EDB)	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Naphthalene	ND	0.40	mg/L	200 3/24/2017 2:59:01 PM	R41652
1-Methylnaphthalene	ND	0.80	mg/L	200 3/24/2017 2:59:01 PM	R41652
2-Methylnaphthalene	ND	0.80	mg/L	200 3/24/2017 2:59:01 PM	R41652
Acetone	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R41652
Bromobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Bromodichloromethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Bromoform	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Bromomethane	ND	0.60	mg/L	200 3/24/2017 2:59:01 PM	R41652
2-Butanone	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R41652
Carbon disulfide	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R41652
Carbon Tetrachloride	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Chlorobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Chloroethane	ND	0.40	mg/L	200 3/24/2017 2:59:01 PM	R4165
Chloroform	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
Chloromethane	ND	0.60	mg/L	200 3/24/2017 2:59:01 PM	R4165
2-Chlorotoluene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
4-Chlorotoluene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
cis-1,2-DCE	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
cis-1,3-Dichloropropene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
1,2-Dibromo-3-chloropropane	ND	0.40	mg/L	200 3/24/2017 2:59:01 PM	R4165
Dibromochloromethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
Dibromomethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
1,2-Dichlorobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
1,3-Dichlorobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
1,4-Dichlorobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
Dichlorodifluoromethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
1,1-Dichloroethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
1,1-Dichloroethene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
1,2-Dichloropropane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
1,3-Dichloropropane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
2,2-Dichloropropane	ND	0.40	mg/L	200 3/24/2017 2:59:01 PM	R4165
1,1-Dichloropropene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
Hexachlorobutadiene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
2-Hexanone	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R4165
Isopropylbenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
4-Isopropyltoluene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R4165
4-Methyl-2-pentanone	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R4165
Methylene Chloride	ND	0.60	mg/L	200 3/24/2017 2:59:01 PM	R4165

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Bian...
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67

04-Apr-1"

Client:

Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID rb	SampT	ype: M	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: R	11652	F	RunNo: 4	1652				
Prep Date:	Analysis D	ate: 3	/24/2017		SeqNo: 1	306625	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0							- 1	
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobonzono	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene Dichlorodifluoromethane										
	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 4 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67 04-Apr-17

Client:

Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID 100ng ics	SampT	ype: LC	S	Tes	tCode: E	PA Method	8260B: VOL	ATILES				
Client ID: LCSW	Batch ID: R41652		RunNo: 41652									
Prep Date:	Analysis D	nalysis Date: 3/24/2017		Analysis Date: 3/24/2017			SeqNo: 1306626					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
1,1-Dichloroethene	23	1.0	20.00	0	114	70	130	71.10				
Trichloroethene (TCE)	20	1.0	20.00	0	102	70	130					
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130					
Surr: 4-Bromofluorobenzene	9.4		10.00		93.6	70	130					
Surr: Dibromofluoromethane	10		10.00		103	70	130					
Surr: Toluene-d8	9.9		10.00		99.0	70	130					

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67 04-Apr-17

Client:

Souder. Miller and Associates

Project:

Hart Canyon 1

Sample ID Icsd-30877	SampT	ype: LC	SD	Test	Code: El	PA Method	8270C: PAHs			
Client ID: LCSS02	Batch	ID: 30	377	R	tunNo: 4	1783				
Prep Date: 3/24/2017	Analysis D	)ate: 3/	30/2017	S	eqNo: 1	311523	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	18	0.50	20.00	0	92.3	38	154	10.1	21	
Benzo(a)pyrene	18	0.50	20.00	0	90.7	38.6	153	12.7	24.8	
Dibenz(a,h)anthracene	18	0.50	20.00	0	88.8	39.7	155	5.20	26	
Benzo(g,h,i)perylene	18	0.50	20.00	0	91.9	39.6	154	5.13	20	
Indeno(1,2,3-od)pyrene	18	0.50	20.00	0	90.7	19.1	153	6.37	20	
Surr: N-hexadecane	73		87.60		83.1	15	176	0	0	
Surr: Benzo(e)pyrene	18		20.00		90.7	15	198	0	0	
Sample ID mb-30877	Samp	ype: ME	rpe: MBLK TestCode: EPA Method 8270C: PAHs							
Client ID: PBW	Batch ID: 30877			R	lunNo: 4	1783				
Prep Date: 3/24/2017	Analysis D	ate: 3/	30/2017	S	eqNo: 1	311524	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50		11-11-11						
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
	2.55	ALC: NO.								
Acenaphthylene	ND	0.50								
	ND ND	0.50								
Acenaphthene										
Acenaphthene Fluorene	ND	0.50								
Acenaphthene Fluorene Phenanthrene	ND ND	0.50 0.50								
Acenaphthene Fluorene Phenanthrene Anthracene	ND ND ND	0.50 0.50 0.50								
Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene	ND ND ND	0.50 0.50 0.50 0.50								
Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene	ND ND ND ND	0.50 0.50 0.50 0.50 0.50								
Acenaphthene Pluorene Phenanthrene Anthracene Fluoranthene Pyrene Senz(a)anthracene	ND ND ND ND ND	0.50 0.50 0.50 0.50 0.50 0.50								
Acenaphthene Pluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene	ND ND ND ND ND	0.50 0.50 0.50 0.50 0.50 0.50								
Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)fluoranthene	ND ND ND ND ND ND ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50								
Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene	ND ND ND ND ND ND ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50								

#### Qualifiers:

Benzo(g,h,i)perylene

Indeno(1,2,3-cd)pyrene

Surr: N-hexadecane

Surr: Benzo(e)pyrene

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

ND

ND

61

13

0.50

0.50

87.60

20.00

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

70.0

65.5

Analyte detected below quantitation limits

Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Reporting Detection Limit

176

198

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15

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67

04-Apr-17

Client:

Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID MB-30980 Client ID: PBW	SampType: MBLK Batch ID: 30980 Analysis Date: 3/31/2017				Code: E		Total Recover	able Meta	als	
Prep Date: 3/30/2017				SeqNo: 1311618			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020						4		
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
ead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID LCS-30980 Client ID: LCSW		Type: LC		2.00	TestCode: EPA 6010B: Total Recoverable Metals RunNo: 41780							
Prep Date: 3/30/2017	Batch ID: 30980  Analysis Date: 3/31/2017				SeqNo: 1		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Arsenic	0.56	0.020	0.5000	0	111	80	120		- 120-1			
Barium	0.51	0.020	0.5000	0	102	80	120					
Cadmium	0.50	0.0020	0.5000	0	99.5	80	120					
Chromium	0.52	0.0060	0.5000	0	104	80	120					
ead	0.51	0.0050	0.5000	0	103	80	120					
Selenium	0.65	0.050	0.5000	0	131	80	120			S		
Silver	0.11	0.0050	0.1000	0	112	80	120					

#### Qualifiers:

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

Page 10 of 10

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

1 ×	or N)	Air Bubbles (Y		
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request				
ANALYSIS LABORA ANALYSIS LABORA www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	(A	OV-imeS) 07S8		
HALL ENVIRON NALYSIS LABC www.hallenvironmental.com ins NE - Albuquerque, NM 8 15-3975 Fax 505-345-41 Analysis Request		(AOV) 809S8	X	
S I S I Imen uerqu 505		8081 Pesticides		
SI SI Notice Ibuque Fax	(\$08,\$04,\$04)			
Ans Ans		PAH's (8310 & RCRA 8 Metals	× × ×	
ANAL www.ha 1901 Hawkins NE Tel. 505-345-3975	_	EDB (Method 5		
awkir 6-34	(1.81	P borteM) H9T		
O1 H	RO / DRO / MRO)	15) 82108 HQT		ió
49	+ TPH (Gas only)			Remarks:
	+ TMB's (8021)	BTEX + MTBE		
h san # (	1 12 N 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 HEAL NO. 17038417	100-	Date Time 3/24/0   1646
ANY	2 1 2 X 2 X 2 X 2 X 2 X 2 X 2 X 2 X 2 X	11,	JAM. DK	Les X
Project Name HAR	Project Manager. ASLIZY Sampler.	Sample Temperature:  Container  Type and # Type	Menious	Relinquished by: Relinquished by? Received by: Received by:
141 M	Level 4 (Full Validation)	Sample Request ID	A REJ	1
1. Bookswington	Astal Ey. IM Assu SEII Scub Ez Mill &  Level 4 (Full Vall	Sample	things.	To po
3-19	141	Matrix	H20	Relinquished by Relinquished by
1 日草 人	4 9	(Type)	3-21-17/10:50	Time: 16-740 Time: 1824
Client: SMA  Walling Abdress: Manifor for 18	email or Fax# QA/QC Packag ☐ Standard Accreditation ☐ NELAP	☐ EDD (Type)	11-12-	3/22/1 Date:

415/17

Jana 79 of 117

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138 Revised 08/01/11

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

#### 1220 S. St. Francis Dr., Santa Fe, NM 87505 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 **Originating Site:** Hart Canyon #1 Compressor Station Location of Material (Street Address, City, State or ULSTR): UL H Section 29 Township 31 North Range 10 West; 36.872934, -107.900317, San Juan County, NM 4. Source and Description of Waste: Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains. Description: Non Exempt/Non Hazardous Water from the compressor skids. Estimated Volume 100 yd3, bbls Known Volume (to be entered by the operator at the end of the haul) GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS 5. I, Thomas Long , representative or authorized agent for Enterprise Products Operating do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load exempt waste. RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS 4-5-17, representative for Enterprise Products Operating authorize to complete I, Thomas Long Generator Signature the required testing/sign the Generator Waste Testing Certification. do hereby certify that I, , representative for Agua Moss, LLC representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC. Transporter: To Be Determined **OCD Permitted Surface Waste Management Facility** Name and Facility Permit #: \*Agua Moss, LLC - Permit #: NM-01-009 Address of Facility: SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM Method of Treatment and/or Disposal: Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record) DATE: /2/17 PRINT NAME: TITLE:

TELEPHONE NO .:

te Management Facility Authorized Agent

4/5/17



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

April 04, 2017

Ashley Maxwell
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Hart Canyon 1

OrderNo.: 1703B67

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/23/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manage:

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1703B6

Date Reported: 4/4/201\*

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: South BGT

Project: Hart Canyon 1

Collection Date: 3/21/2017 10:50:00 AM

Lab ID: 1703B67-001

Matrix: AQUEOUS Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	DJF
1,2-Dibromoethane (EDB)	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Naphthalene	ND	0.40	mg/L	200 3/24/2017 2:59:01 PM	R41652
1-Methylnaphthalene	ND	0.80	mg/L	200 3/24/2017 2:59:01 PM	R41652
2-Methylnaphthalene	ND	0.80	mg/L	200 3/24/2017 2:59:01 PM	R41652
Acetone	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R41652
Bromobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Bromodichloromethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Bromoform	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Bromomethane	ND	0.60	mg/L	200 3/24/2017 2:59:01 PM	R41652
2-Butanone	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R41652
Carbon disulfide	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R41652
Carbon Tetrachloride	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Chlorobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Chloroethane	ND	0.40	mg/L	200 3/24/2017 2:59:01 PM	R41652
Chloroform	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Chloromethane	ND	0.60	mg/L	200 3/24/2017 2:59:01 PM	R41652
2-Chlorotoluene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
4-Chlorotoluene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
cis-1,2-DCE	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
cis-1,3-Dichloropropene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
1,2-Dibromo-3-chloropropane	ND	0.40	mg/L	200 3/24/2017 2:59:01 PM	R41652
Dibromochloromethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Dibromomethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
1,2-Dichlorobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
1,3-Dichlorobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
1,4-Dichlorobenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Dichlorodifluoromethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
1,1-Dichloroethane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
1,1-Dichloroethene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
1,2-Dichloropropane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
1,3-Dichloropropane	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
2,2-Dichloropropane	ND	0.40	mg/L	200 3/24/2017 2:59:01 PM	R41652
1,1-Dichloropropene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
Hexachlorobutadiene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
2-Hexanone	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R41652
Isopropylbenzene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
4-Isopropyltoluene	ND	0.20	mg/L	200 3/24/2017 2:59:01 PM	R41652
4-Methyl-2-pentanone	ND	2.0	mg/L	200 3/24/2017 2:59:01 PM	R41652
Methylene Chloride	ND	0.60	mg/L	200 3/24/2017 2:59:01 PM	R41652

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

Qualifier

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Bian...
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67

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04-Apr-1"

Client: Souder. I

Souder. Miller and Associates

Project: Hart Canyon 1

Analysis Da Result ND ND ND ND ND ND	1.0 1.0 1.0 1.0 1.0	24/2017		RunNo: 4 SeqNo: 1 %REC		Units: µg/L HighLimit	%RPD	RPDLimit	Qual
Result  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	1.0 1.0 1.0 1.0 1.0						%RPD	RPDI imit	Qual
ND ND ND ND ND	1.0 1.0 1.0 1.0 1.0	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDI imit	Qual
ND ND ND ND	1.0 1.0 1.0							The second second	
ND ND ND	1.0 1.0 1.0								
ND ND ND	1.0 1.0								
ND ND	1.0								
ND									
								- 1	
ND	1.0								
ND	1.0								
ND	1.0								
ND	2.0								
ND	4.0								
ND	4.0								
ND	10								
ND	1.0								
ND	1.0								
ND	1.0								
ND	3.0								
ND	10								
ND	10								
ND	1.0								
ND	1.0								
ND	2.0								
ND	1.0								
ND	1.0								
ND	1.0								
	-								
	XD	ND 1.0 ND 2.0 ND 4.0 ND 10 ND 10 ND 1.0 ND 1.0 ND 10 ND 1.0	ND 1.0 ND 2.0 ND 4.0 ND 4.0 ND 10 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 10 ND 10 ND 1.0	ND 1.0 ND 2.0 ND 4.0 ND 4.0 ND 10 ND 10 ND 1.0 ND 1.0 ND 1.0 ND 10 ND 10 ND 10 ND 1.0	ND 1.0 ND 2.0 ND 4.0 ND 4.0 ND 10 ND 10 ND 1.0 ND 1.0 ND 1.0 ND 10 ND 10 ND 10 ND 10 ND 10 ND 10 ND 1.0	ND 1.0 ND 2.0 ND 4.0 ND 4.0 ND 10 ND 10 ND 1.0 ND 1.0 ND 1.0 ND 10 ND 10 ND 10 ND 10 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 2.0 ND 1.0	ND 1.0 ND 2.0 ND 4.0 ND 4.0 ND 10 ND 10 ND 1.0 ND 1.0 ND 3.0 ND 10 ND 10 ND 10 ND 10 ND 1.0	ND 1.0 ND 2.0 ND 4.0 ND 4.0 ND 10 ND 10 ND 1.0 ND 1.0 ND 1.0 ND 10 ND 10 ND 10 ND 10 ND 10 ND 1.0	ND 1.0 ND 2.0 ND 4.0 ND 4.0 ND 10 ND 10 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 10 ND 10 ND 10 ND 10 ND 10 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 2.0 ND 1.0 ND 3.0 ND 1.0 ND 3.0 ND 1.0

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 11/8/2023 4:32:22 PM

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67

04-Apr-17

Client: Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID 100ng Ics	SampT	ype: LC	S	Tes	tCode: E	PA Method	ATILES			
Client ID: LCSW	Batch ID: R41652		F	RunNo: 4	1652					
Prep Date:	Analysis D	ate: 3/	24/2017		SeqNo: 1	306626	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	114	70	130	71 10		
Trichloroethene (TCE)	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.9		10.00		99.0	70	130			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67 04-Apr-17

Client:

Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID lcsd-30877		SampType: LCSD					8270C: PAHs			
Client ID: LCSS02	Batch ID: 30877			R	tunNo: 4	1783				
Prep Date: 3/24/2017	Analysis D	Analysis Date: 3/30/2017			SeqNo: 1311523					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	18	0.50	20.00	0	92.3	38	154	10.1	21	
Benzo(a)pyrene	18	0.50	20.00	0	90.7	38.6	153	12.7	24.8	
Dibenz(a,h)anthracene	18	0.50	20.00	0	88.8	39.7	155	5.20	26	
Benzo(g,h,i)perylene	18	0.50	20.00	0	91.9	39.6	154	5.13	20	
Indeno(1,2,3-cd)pyrene	18	0.50	20.00	0	90.7	19.1	153	6.37	20	
Surr: N-hexadecane	73		87.60		83.1	15	176	0	0	
Surr: Benzo(e)pyrene	18		20.00		90.7	15	198	0	0	

Sample ID mb-30877	SampT	Type: MBL	K	Tes	tCode: E	PA Method	8270C: PAHs			
Client ID: PBW	Batch	h ID: 3087	77	F	RunNo: 4	1783				
Prep Date: 3/24/2017	Analysis D	Date: 3/30	0/2017	5	SeqNo: 1	311524	Units: µg/L			
Analyte	Result	PQL :	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50								
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	61		87.60		70.0	15	176			
Surr: Benzo(e)pyrene	13		20.00		65.5	15	198			

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Value above quantitation range

Page 8 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B67

04-Apr-17

Client:

Souder. Miller and Associates

Project: Hart Canyon 1

Sample ID MB-30980	Samp	SampType: MBLK		Tes	TestCode: EPA 6010B: Total Recoverable Metals						
Client ID: PBW	Batch ID: 30980		F	RunNo: 41780							
Prep Date: 3/30/2017	Analysis	Date: 3/	31/2017	8	SeqNo: 1	311618	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	0.020						-			
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
ead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050									

Sample ID LCS-30980	Samp	Type: LC	s	Tes	TestCode: EPA 6010B: Total Recoverable Metals						
Client ID: LCSW	Bato	Batch ID: 30980		F	RunNo: 41780						
Prep Date: 3/30/2017	Analysis	Analysis Date: 3/31/2017			SeqNo: 1311619			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.56	0.020	0.5000	0	111	80	120		- 120-1		
Barium	0.51	0.020	0.5000	0	102	80	120				
Cadmium	0.50	0.0020	0.5000	0	99.5	80	120				
Chromium	0.52	0.0060	0.5000	0	104	80	120				
Lead	0.51	0.0050	0.5000	0	103	80	120				
Selenium	0.65	0.050	0.5000	0	131	80	120			S	
Silver	0.11	0.0050	0.1000	0	112	80	120				

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 10 of 10

TAL	or N)	Y) səldqn8 ıjA		
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	(Ac	2270 (Semi-VC		
IALL ENVIRONN NALYSIS LABO www.hallenvironmental.com ins NE - Albuquerque, NM 87 45-3975 Fax 505-345-4107 Analysis Request		(AOV) 80828	X	
LYSIS LAE altenvironmental.co - Albuquerque, NN - Fax 505-345- Analysis Request		8081 Pesticides		
SI SI Nviror Nbuqu Fax Fax	(\$08,\$09,\$04,\$04)			
halle Ans		PAH's (8310 & RCRA 8 Metals	X	
## HALL ANA! www.ha 1901 Hawkins NE Tel. 505-345-3975	_	EDB (Method 5		
Hawki 15-34	(1.81	P bodieM) H9T		
el. 5(	RO / DRO / MRO)			33
4 -	+ TMB's (8021) + TPH (Gas only)			Remarks:
1 1 1	(1008) 3/8/41 +	PTEX + MTBE		ŭ g
)# w	Tom Lang	7 HEAL NO.	00_	Date Time Remarks:  3/2/17   16/16     Date Time   12/2   17/20
Rush Caryan		1. ative	Were, en	The state of the s
Project Name: Hand	Project Manager: ASL 127 Sampler:	Sample Temperature:  Container Preserva  Type and # Type	Aprious	ä 5 ä
25 141 22 37 37 37 37 37 37 37 37 37 37 37 37 37	SE/1 &	Sample Request ID	BIET	
100 May 1	Adul Ey : MAXWILL EX. Com	Sample R	y had	Time: Relinquished by:
SMA Follow By dress: An	Soul Ex	Matrix	H20	Relinquished by Relinquished by
Hot was dedress:	Fax#: ackage: lard ation	(Type)	10:3	Time: 1824
Client: Let to Mailing Address:	email or Fax#:	□ EDD (Type)  Date Time	3-21-17/10:50	3/12/11 Date:

JO Page 87 of 117

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138 Revised 08/01/11

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

# REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401
2. Originating Site:
San Juan Manzanares Compressor Station
3. Location of Material (Street Address, City, State or ULSTR): UL H Section 17 Township 29 North Range 9 West; 36.726358, -107.794560, San Juan County, NM
4. Source and Description of Waste:
Source: Water/Oil from the Non Exempt WasteWater Tanks and from the compressor skid drains.
Description: Non Exempt/Non Hazardous Water from the compressor skids.
Estimated Volume 80 yd3 bbls Known Volume (to be entered by the operator at the end of the haul) 137 yd3 bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, Thomas Long for Enterprise Products Operating do hereby  Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.  **Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load**
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, Thomas Long, representative for Enterprise Products Operating authorize to complete  Generator Signature
the required testing/sign the Generator Waste Testing Certification.
I,
5. Transporter: Various Apporved Trucking
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: *Agua Moss, LLC - Permit #: NM-01-009 Address of Facility: SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM
Method of Treatment and/or Disposal:  Evaporation Injection Treating Plant Landfarm Landfill Other
Waste Acceptance Status:
APPROVED DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: CAPUE TIESMS TITLE: SUPER DATE: 12/17 SIGNATURE: TELEPHONE NO.:
Surface Waste Management Facility Authorized Agent



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

OrderNo.: 1705955

June 07, 2017

Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: Manzanares SJ

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/18/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Project:

#### **Analytical Report**

Lab Order 1705955

Date Reported: 6/7/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Manzanares SJ

Lab ID: 1705955-001

Client Sample ID: Manzanares BGT

Collection Date: 5/17/2017 12:52:00 PM Received Date: 5/18/2017 6:45:00 AM

Analyses Result PQL Qual Units **DF** Date Analyzed Batch **EPA METHOD 7470: MERCURY** Analyst: MED Mercury 0.00020 0.00020 mg/L 5/31/2017 12:08:38 PM 32032 **EPA 6010B: TOTAL RECOVERABLE METALS** Analyst: MED Arsenic ND 5.0 5/25/2017 9:08:12 AM mg/L 31927 Barium ND 100 mg/L 5/25/2017 9:08:12 AM 31927 Cadmium ND 1.0 mg/L 5/25/2017 9:08:12 AM Chromium ND 5.0 mg/L 5/25/2017 9:08:12 AM 31927 Lead ND 5.0 mg/L 5/25/2017 9:08:12 AM 31927 Selenium ND 1.0 mg/L 5/25/2017 9:08:12 AM 31927 Silver ND 5.0 mg/L 5/25/2017 9:08:12 AM 31927 **EPA METHOD 8270C: PAHS** Analyst: DAM Naphthalene 0.56 0.50 5/24/2017 2:35:48 PM µg/L 31811 1-Methylnaphthalene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 2-Methylnaphthalene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Acenaphthylene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Acenaphthene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Fluorene ND 0.50 5/24/2017 2:35:48 PM µg/L 31811 Phenanthrene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Anthracene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Fluoranthene ND 0.50 5/24/2017 2:35:48 PM µg/L 31811 Pyrene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Benz(a)anthracene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Chrysene ND 0.50 5/24/2017 2:35:48 PM µg/L 31811 Benzo(b)fluoranthene ND 0.50 5/24/2017 2:35:48 PM µg/L 31811 Benzo(k)fluoranthene ND 0.50 5/24/2017 2:35:48 PM µg/L 31811 Benzo(a)pyrene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Dibenz(a,h)anthracene ND 0.50 5/24/2017 2:35:48 PM µg/L 31811 Benzo(g,h,i)perylene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Indeno(1,2,3-cd)pyrene ND 0.50 µg/L 5/24/2017 2:35:48 PM 31811 Surr: N-hexadecane 81.9 15-176 %Rec 5/24/2017 2:35:48 PM 31811 Surr: Benzo(e)pyrene 86.5 15-198 %Rec 5/24/2017 2:35:48 PM 31811 **EPA METHOD 8260B: VOLATILES** Analyst: RAA Benzene ND 0.50 200 5/22/2017 1:55:00 PM R42948 mg/L Toluene ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 Ethylbenzene ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 Methyl tert-butyl ether (MTBE) ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 1,2,4-Trimethylbenzene ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 1,3,5-Trimethylbenzene ND 0.20 200 5/22/2017 1:55:00 PM mg/L R42948 1,2-Dichloroethane (EDC) 0.20 200 5/22/2017 1:55:00 PM mg/L R42948

Matrix: AQUEOUS

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Analytical Report Lab Order 1705955

Date Reported: 6/7/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Manzanares BGT

Project: Manzanares SJ

Collection Date: 5/17/2017 12:52:00 PM

Lab ID: 1705955-001

Matrix: AQUEOUS Received Date: 5/18/2017 6:45:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES			-	Analyst	RAA
1,2-Dibromoethane (EDB)	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R4294
Naphthalene	ND	0.40	mg/L	200 5/22/2017 1:55:00 PM	R4294
1-Methylnaphthalene	ND	0.80	mg/L	200 5/22/2017 1:55:00 PM	R4294
2-Methylnaphthalene	ND	0.80	mg/L	200 5/22/2017 1:55:00 PM	R4294
Acetone	ND	2.0	mg/L	200 5/22/2017 1:55:00 PM	R4294
Bromobenzene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R4294
Bromodichloromethane	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R4294
Bromoform	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
Bromomethane	ND	0.60	mg/L	200 5/22/2017 1:55:00 PM	R4294
2-Butanone	ND	2.0	mg/L	200 5/22/2017 1:55:00 PM	R4294
Carbon disulfide	ND	2.0	mg/L	200 5/22/2017 1:55:00 PM	R429
Carbon Tetrachloride	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
Chlorobenzene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
Chloroethane	ND	0.40	mg/L	200 5/22/2017 1:55:00 PM	R429
Chloroform	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
Chloromethane	ND	0.60	mg/L	200 5/22/2017 1:55:00 PM	R429
2-Chlorotoluene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
4-Chlorotoluene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
cis-1,2-DCE	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
cis-1,3-Dichloropropene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
1,2-Dibromo-3-chloropropane	ND	0.40	mg/L	200 5/22/2017 1:55:00 PM	R429
Dibromochloromethane	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
Dibromomethane	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
1,2-Dichlorobenzene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
1,3-Dichlorobenzene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
1,4-Dichlorobenzene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
Dichlorodifluoromethane	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
1,1-Dichloroethane	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
1,1-Dichloroethene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
1,2-Dichloropropane	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
1,3-Dichloropropane	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
2,2-Dichloropropane	ND	0.40	mg/L	200 5/22/2017 1:55:00 PM	R429
1,1-Dichloropropene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
Hexachlorobutadiene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
2-Hexanone	ND	2.0	mg/L	200 5/22/2017 1:55:00 PM	R429
Isopropylbenzene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
4-Isopropyltoluene	ND	0.20	mg/L	200 5/22/2017 1:55:00 PM	R429
4-Methyl-2-pentanone	ND	2.0	mg/L	200 5/22/2017 1:55:00 PM	R429
Methylene Chloride	ND	0.60	mg/L	200 5/22/2017 1:55:00 PM	R429

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

R42948

R42948

R42948

200 5/22/2017 1:55:00 PM

200 5/22/2017 1:55:00 PM

200 5/22/2017 1:55:00 PM

Analytical Report Lab Order 1705955

Date Reported: 6/7/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Manzanares SJ

Lab ID: 1705955-001

Project:

Client Sample ID: Manzanares BGT

Collection Date: 5/17/2017 12:52:00 PM Received Date: 5/18/2017 6:45:00 AM

Analyses Result PQL Qual Units **DF** Date Analyzed Batch **EPA METHOD 8260B: VOLATILES** Analyst: RAA 200 5/22/2017 1:55:00 PM n-Butylbenzene ND 0.60 mg/L R42948 n-Propylbenzene ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 sec-Butylbenzene ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 200 5/22/2017 1:55:00 PM Styrene ND 0.20 R42948 mg/L tert-Butylbenzene ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 1,1,1,2-Tetrachloroethane ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 1,1,2,2-Tetrachloroethane ND 0.40 200 5/22/2017 1:55:00 PM R42948 mg/L Tetrachloroethene (PCE) R42948 ND 0.20 mg/L 200 5/22/2017 1:55:00 PM trans-1,2-DCE ND 200 5/22/2017 1:55:00 PM R42948 0.20 mg/L trans-1,3-Dichloropropene ND 0.20 200 5/22/2017 1:55:00 PM R42948 mg/L 1,2,3-Trichlorobenzene ND 200 5/22/2017 1:55:00 PM R42948 0.20 mg/L 1,2,4-Trichlorobenzene ND 200 5/22/2017 1:55:00 PM R42948 0.20 mg/L 1,1,1-Trichloroethane ND 0.20 200 5/22/2017 1:55:00 PM R42948 mg/L 1,1,2-Trichloroethane 200 5/22/2017 1:55:00 PM R42948 ND 0.20 mg/L Trichloroethene (TCE) ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 Trichlorofluoromethane ND 0.20 ma/L 200 5/22/2017 1:55:00 PM R42948 1,2,3-Trichloropropane 200 5/22/2017 1:55:00 PM R42948 ND 0.40 mg/L Vinyl chloride ND 0.20 mg/L 200 5/22/2017 1:55:00 PM R42948 Xylenes, Total 200 5/22/2017 1:55:00 PM R42948 ND 0.30 mg/L 200 5/22/2017 1:55:00 PM R42948 Surr: 1.2-Dichloroethane-d4 105 70-130 %Rec

70-130

70-130

70-130

%Rec

%Rec

%Rec

106

110

103

Matrix: AQUEOUS

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID 100ng Ics	SampT	ype: LC	S4	Test	TestCode: EPA Method 8260B: VOLATILES						
Client ID: BatchQC	Batch	n ID: R4	2948	R	RunNo: 4	2948					
Prep Date:	Analysis D	Date: 5/	22/2017	S	SeqNo: 1	351501	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	19	1.0	20.00	0	94.8	70	130		HYCAT		
oluene	20	1.0	20.00	0	101	70	130				
Ethylbenzene	21	1.0	20.00	0	104	70	130				
Methyl tert-butyl ether (MTBE)	35	1.0	40.00	0	88.3	70	130				
,2,4-Trimethylbenzene	20	1.0	20.00	0	102	70	130				
,3,5-Trimethylbenzene	20	1.0	20.00	0	99.4	70	130				
,2-Dichloroethane (EDC)	18	1.0	20.00	0	90.6	62.2	143				
,2-Dibromoethane (EDB)	19	1.0	20.00	0	95.2	70	130				
Naphthalene	18	2.0	20.00	0	87.8	70	130				
-Methylnaphthalene	17	4.0	20.00	0	85.9	60	140				
-Methylnaphthalene	14	4.0	20.00	0	67.6	60	140				
Acetone	36	10	40.00	0	90.4	60	140				
Bromobenzene	20	1.0	20.00	0	102	70	130				
Bromodichloromethane	19	1.0	20.00	0	96.3	70	130				
Bromoform	20	1.0	20.00	0	97.7	70	130				
romomethane	19	3.0	20.00	0	93.6	60	140				
-Butanone	39	10	40.00	0	98.4	60	140				
Carbon disulfide	36	10	40.00	0	91.0	60	140				
Carbon Tetrachloride	19	1.0	20.00	0	96.1	70	130				
Chlorobenzene	21	1.0	20.00	0	104	70	130				
Chloroethane	19	2.0	20.00	0	96.9	60	140				
Chloroform	19	1.0	20.00	0	96.3	70	130				
Chloromethane	17	3.0	20.00	0	83.1	60	140				
-Chlorotoluene	20	1.0	20.00	0	100	70	130				
-Chlorotoluene	20	1.0	20.00	0	100	70	130				
is-1,2-DCE	19	1.0	20.00	0	94.5	70	130				
is-1,3-Dichloropropene	18	1.0	20.00	0	88.0	70	130				
,2-Dibromo-3-chloropropane	18	2.0	20.00	0	90.7	70	130				
Dibromochloromethane	19	1.0	20.00	0	94.2	70	130				
Dibromomethane	19	1.0	20.00	0	93.5	70	130				
,2-Dichlorobenzene	20	1.0	20.00	0	99.9	70	130				
,3-Dichlorobenzene	21	1.0	20.00	0	103	70	130				
,4-Dichlorobenzene	21	1.0	20.00	0	103	67.2	141				
ichlorodifluoromethane	20	1.0	20.00	0	100	60	140				
,1-Dichloroethane	19	1.0	20.00	0	92.6	52.6	157				
,1-Dichloroethene	19	1.0	20.00	0	92.7	70	130				
,2-Dichloropropane	18	1.0	20.00	0	91.5	63.7	138				
,3-Dichloropropane	19	1.0	20.00	0	94.1	70	130				
2,2-Dichloropropane	18	2.0	20.00	0	90.7	70	130				

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client:

Souder, Miller and Associates

Project:

Manzanares SJ

Sample ID 100ng Ics	Samp	ype: LC	S4	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: BatchQC	Batc	n ID: R4	2948	F	RunNo: 4	2948				
Prep Date:	Analysis [	Date: 5/	22/2017	8	SeqNo: 1	351501	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	19	1.0	20.00	0	93.4	70	130			
Hexachlorobutadiene	19	1.0	20.00	0	92.9	70	130			
2-Hexanone	34	10	40.00	0	84.8	60	140			
sopropylbenzene	20	1.0	20.00	0	102	70	130			
1-Isopropyltoluene	21	1.0	20.00	0	104	70	130			
1-Methyl-2-pentanone	32	10	40.00	0	80.8	60	140			
Methylene Chloride	18	3.0	20.00	0	92.1	70	130			
n-Butylbenzene	20	3.0	20.00	0	98.2	70	130			
n-Propylbenzene	20	1.0	20.00	0	100	70	130			
sec-Butylbenzene	20	1.0	20.00	0	100	70	130			
Styrene	19	1.0	20.00	0	92.9	70	130			
ert-Butylbenzene	20	1.0	20.00	0	102	70	130			
1,1,1,2-Tetrachloroethane	20	1.0	20.00	0	99.7	70	130			
1,1,2,2-Tetrachloroethane	20	2.0	20.00	0	97.5	65.9	133			
Tetrachloroethene (PCE)	21	1.0	20.00	0	106	70	130			
rans-1,2-DCE	19	1.0	20.00	0	93.5	70	130			
rans-1,3-Dichloropropene	18	1.0	20.00	0	91.2	70	130			
1,2,3-Trichlorobenzene	18	1.0	20.00	0	91.7	70	130			
1,2,4-Trichlorobenzene	19	1.0	20.00	0	94.6	70	130			
1,1,1-Trichloroethane	19	1.0	20.00	0	94.5	70	130			
,1,2-Trichloroethane	19	1.0	20.00	0	95.1	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.6	70	130			
Frichlorofluoromethane	19	1.0	20.00	0	96.0	70	130			
1,2,3-Trichloropropane	19	2.0	20.00	0	95.1	69.7	129			
/inyl chloride	18	1.0	20.00	0	90.5	70	130			
Xylenes, Total	61	1.5	60.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.2	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			
Sample ID RB	Samp	SampType: MBLK			tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batc	Batch ID: R42948			RunNo: 42948					
Prep Date:	Analysis D				SeqNo: 1		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

#### Qualifiers:

Ethylbenzene

Benzene

Toluene

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND

ND

ND

1.0

1.0

1.0

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID RB	SampT	ype: ME	ILK	TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	1D: R4	2948	F	RunNo: 4	2948				
Prep Date:	Analysis D	ate: 5/	22/2017	5	SeqNo: 1	352107	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0		Shirt Sales						Rentelli
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
I-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
sis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client:

Souder, Miller and Associates

Project:

Manzanares SJ

Sample ID RB	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batcl	n ID: R4	2948	F	RunNo: 4	2948				
Prep Date:	Analysis E	Date: 5/	22/2017	5	SeqNo: 1	352107	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
sopropylbenzene	ND	1.0								
I-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
ert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
rans-1,2-DCE	ND	1.0								
rans-1,3-Dichloropropene	ND	1.0								
,2,3-Trichlorobenzene	ND	1.0								
,2,4-Trichlorobenzene	ND	1.0								
,1,1-Trichloroethane	ND	1.0								
,1,2-Trichloroethane	ND	1.0								
richloroethene (TCE)	ND	1.0								
richlorofluoromethane	ND	1.0								
,2,3-Trichloropropane	ND	2.0								
/inyl chloride	ND	1.0								
Kylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client:

Souder, Miller and Associates

Project:

Manzanares SJ

Sample ID Ics-31811	Samp	ype: LC	S	Tes	tCode: El	PA Method	8270C: PAHs			
Client ID: LCSW	Batc	h ID: 31	811	F	RunNo: 4	3049				
Prep Date: 5/18/2017	Analysis [	Date: 5/	24/2017	5	SeqNo: 1	354630	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	15	0.50	20.00	0	75.9	37.4	120			
1-Methylnaphthalene	15	0.50	20.00	0	74.8	39.3	121			
2-Methylnaphthalene	15	0.50	20.00	0	72.7	37.8	122			
Acenaphthylene	17	0.50	20.00	0	82.8	37	124			
Acenaphthene	17	0.50	20.00	0	83.7	35.6	123			
Fluorene	17	0.50	20.00	0	84.0	35.2	122			
Phenanthrene	18	0.50	20.00	0	89.1	38.8	122			
Anthracene	18	0.50	20.00	0	90.1	37.5	125			
luoranthene	18	0.50	20.00	0	89.2	37.4	131			
yrene	17	0.50	20.00	0	86.8	27.5	140			
Benz(a)anthracene	18	0.50	20.00	0	87.5	25.4	141			
Chrysene	17	0.50	20.00	0	83.7	33.6	155			
Benzo(b)fluoranthene	17	0.50	20.00	0	83.8	39	153			
Benzo(k)fluoranthene	17	0.50	20.00	0	86.2	38	154			
Benzo(a)pyrene	17	0.50	20.00	0	84.9	38.6	153			
Dibenz(a,h)anthracene	18	0.50	20.00	0	87.6	39.7	155			
Benzo(g,h,i)perylene	17	0.50	20.00	0	86.6	39.6	154			
ndeno(1,2,3-cd)pyrene	17	0.50	20.00	0	84.5	19.1	153			
Surr: N-hexadecane	81		87.60		92.1	15	176			
Surr: Benzo(e)pyrene	21		20.00		106	15	198			
Sample ID Icsd-31811	Samp	Type: LC	SD	Tes	tCode: E	PA Method	8270C: PAHs		- 10.15	
Client ID: LCSS02	Batch ID: 31811			F	RunNo: 43049					
Prep Date: 5/18/2017	Analysis Date: 5/24/2017			5	SeqNo: 1354632 Units: μg/L					
Analyte	Result	PQL	SDK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Client ID: LCSS02	Dato	1D: 31	011		RunNo: 4	3043				
Prep Date: 5/18/2017	Analysis D	)ate: 5/	24/2017	SeqNo: 1354632			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	15	0.50	20.00	0	72.6	37.4	120	4.44	20	N. FY
I-Methylnaphthalene	15	0.50	20.00	0	73.4	39.3	121	1.89	26.8	
2-Methylnaphthalene	13	0.50	20.00	0	65.5	37.8	122	10.4	23.8	
Acenaphthylene	16	0.50	20.00	0	80.7	37	124	2.57	28.6	
Acenaphthene	16	0.50	20.00	0	81.4	35.6	123	2.79	27	
Fluorene	16	0.50	20.00	0	80.8	35.2	122	3.88	25.7	
Phenanthrene	16	0.50	20.00	0	79.7	38.8	122	11.1	20	
Anthracene	16	0.50	20.00	0	80.5	37.5	125	11.3	21.2	
luoranthene	16	0.50	20.00	0	77.6	37.4	131	13.9	21.8	
Pyrene	16	0.50	20.00	0	80.8	27.5	140	7.16	31.1	
Benz(a)anthracene	16	0.50	20.00	0	78.5	25.4	141	10.8	26.6	
Chrysene	16	0.50	20.00	0	77.9	33.6	155	7.18	21.2	
Benzo(b)fluoranthene	16	0.50	20.00	0	78.1	39	153	7.04	20	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

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### Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: 1705955

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07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID mb-31811

Sample ID Icsd-31811	SampT	ype: LC	SD	Tes	tCode: El	PA Method	8270C: PAHs			
Client ID: LCSS02	Batch ID: <b>31811</b> Analysis Date: <b>5/24/2017</b>		F	RunNo: 4						
Prep Date: 5/18/2017			8	SeqNo: 1354632						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	17	0.50	20.00	0	85.3	38	154	1.05	21	
Benzo(a)pyrene	16	0.50	20.00	0	81.6	38.6	153	3.96	24.8	
Dibenz(a,h)anthracene	16	0.50	20.00	0	81.2	39.7	155	7.58	26	
Benzo(g,h,i)perylene	16	0.50	20.00	0	81.2	39.6	154	6.44	20	
ndeno(1,2,3-cd)pyrene	16	0.50	20.00	0	78.7	19.1	153	7.11	20	
Surr: N-hexadecane	74		87.60		84.1	15	176	0	0	
Surr: Benzo(e)pyrene	18		20.00		92.1	15	198	0	0	

TestCode: EPA Method 8270C: PAHs

Client ID: PBW	Batcl	n ID: 31	811	F	RunNo: 4	3049				
Prep Date: 5/18/2017	Analysis D	Date: 5/	24/2017	5	SeqNo: 1	354634	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50						ale in a re-		100
1-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
Pyrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
Indeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	68		87.60		77.3	15	176			
Surr: Benzo(e)pyrene	18		20.00		90.1	15	198			

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955 07-Jun-17

Client: Souder, M

Souder, Miller and Associates

Project: Manzanares SJ

Sample ID MB-32032 SampType: MBLK TestCode: EPA Method 7470: Mercury

Client ID: PBW Batch ID: 32032 RunNo: 43161

Prep Date: 5/31/2017 Analysis Date: 5/31/2017 SeqNo: 1358624 Units: mg/L

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

Mercury ND 0.00020

Sample ID LCS-32032 SampType: LCS TestCode: EPA Method 7470: Mercury

Client ID: LCSW Batch ID: 32032 RunNo: 43161

Prep Date: 5/31/2017 Analysis Date: 5/31/2017 SeqNo: 1358625 Units: mg/L

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

Mercury 0.0049 0.00020 0.005000 0 98.9 80 120

Sample ID 1705955-001CMS SampType: MS TestCode: EPA Method 7470: Mercury

Client ID: Manzanares BGT Batch ID: 32032 RunNo: 43161

Prep Date: 5/31/2017 Analysis Date: 5/31/2017 SeqNo: 1358632 Units: mg/L

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

Mercury 0.0050 0.00020 0.005000 0.0002014 95.7 75 125

Sample ID 1705955-001CMSD SampType: MSD TestCode: EPA Method 7470: Mercury

Client ID: Manzanares BGT Batch ID: 32032 RunNo: 43161

Prep Date: 5/31/2017 Analysis Date: 5/31/2017 SeqNo: 1358633 Units: mg/L

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

Mercury 0.0049 0.00020 0.005000 0.0002014 94.4 75 125 1.27 20

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705955

07-Jun-17

Client: Souder, Miller and Associates

Project: Manzanares SJ

Sample ID MB-31927 Client ID: PBW		Type: ME			tCode: El		Total Recove	rable Meta	als	
Prep Date: 5/24/2017	Analysis I	Date: 5/	25/2017	5	SeqNo: 1	354689	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
ead	ND	0.0050								
elenium	ND	0.050								
Silver	ND	0.0050								

Sample ID LCS-31927	Samp	Type: LC	s	Tes	tCode: E	PA 6010B:	Total Recove	rable Meta	als	
Client ID: LCSW	Bate	ch ID: 31	927	F	RunNo: 4	3047				
Prep Date: 5/24/2017	Analysis	Date: 5/	25/2017	5	SeqNo: 1	354690	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.50	0.020	0.5000	0	99.6	80	120			
Barium	0.49	0.020	0.5000	0	98.7	80	120			
Cadmium	0.49	0.0020	0.5000	0	98.0	80	120			
Chromium	0.49	0.0060	0.5000	0	97.5	80	120			
Lead	0.49	0.0050	0.5000	0	97.6	80	120			
Selenium	0.50	0.050	0.5000	0	100	80	120			
Silver	0.10	0.0050	0.1000	0	100	80	120			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 11 of 11



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

# Sample Log-In Check List

Client Name:	SMA-FARM	Work Order Number:	1705955		RcptNo: 1	
Received By:	Ashley Gallegos	5/18/2017 6:45:00 AM		A		
Completed By:	Ashley Gallegos	5/18/2017 8:41:40 AM		AR		
Reviewed By:	97	511817		0		
nonowa by.	2	2118111				
Chain of Cus	stody					
1. Custody sea	als intact on sample bottle	s?	Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes 🗸	No 🗆	Not Present	
3. How was the	e sample delivered?		Courier			
Log In						
4. Was an atte	empt made to cool the sa	mples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all sar	mples received at a temp	erature of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆	
6. Sample(s) i	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	ample volume for indicate	d test(s)?	Yes 🗸	No 🗆		
	s (except VOA and ONG)		Yes 🗹	No □		
	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	
					bottles checked	
	work match bottle labels?		Yes 🗸	No 🗆	for pH:	>12 unless noted)
	epancies on chain of custons s correctly identified on C		Yes 🗸	No 🗆	Adjusted?	No
	hat analyses were reques		Yes 🗸	No 🗆		C
15. Were all hol	lding times able to be me customer for authorization	?	Yes 🗹	No 🗆	Checked by:	re
Special Hand	dling (if applicable)					
	notified of all discrepancie	s with this order?	Yes 🗆	No 🗆	NA 🗹	
Perso	n Notified:	Date [		The second second		
By Wi	hom:	Via: [	eMail [	Phone Fax	☐ In Person	
Regar	rding:					
Client	Instructions:					
17. Additional r	remarks:					
18. Cooler Info						
Cooler N		yes Yes	Seal Date	Signed By		
11	3.5 Good	165				
Page 1 c						

FAL						(1)	A 10	) (Y	səlddu8 nA			urts 1
HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com 4901 Hawkins NE - Albucueroue NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	(POS)	N / O (SWI	1) 1) 1) 1) 1) 1) 1)	85 90 18: 18: 18:	(GF)  (GF)  (GF)  (GF)  (GF)  (GF)  (GF)	BTEX + MT TPH 8015B TPH (Methor PPH's (8310 RCRA 8 Methor RCRA 9 Methor	X ++		Date Time Remarks.  State List Board Limb Bate Time 1/12 Deported Compared Limb Its Bates Time 1/12 Deported Compared Limb Its Dates Time 1/12 Deported the second Compared Co
d Time: d 🗆 Rush	Manzanaves ST		Manzanares sy 867	Project Manager: AShley Haxwell		brson		(SE-(SD)	No. N	100- 51		
Turn-Around Time:	Man	Project #:	Manz	Project Ma		Samp	On Ice:	Sample Te		ST Jarians		Received by Receiv
Chain-of-Custody Record	Mailing Address: HOI M By oa chusus	Farmington, NM 8746F	Phone # 505-325-1535	email or Fax#: OSME Maxwell	QA/QC Package:   Standard  Standard	-	□ NELAP □ Other	□ EDD (Type)	Date Time Matrix Sample Request ID	12:52 HZO Manzanavis BGT		Pare: Time: Refinquished by Received by Option Refind to Hall Environmental may be subcontracted to other accredited blooratches.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

1. Generator Name and Address:

State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Form C-138 Revised 08/01/11

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

#### Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 **Originating Site: Rattlesnake Compressor Station** Location of Material (Street Address, City, State or ULSTR): UL H Section 16, T32N, R9W; 36.987603, -107.77771 Source and Description of Waste: Source: Water from the Non Exempt Water Tanks and from the compressor skid drains. Description: Non Exempt/Non Hazardous Water from the compressor skids. Estimated Volume 160 yd bbls Known Volume (to be entered by the operator at the end of the haul) GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS 5. I, Thomas Long throw Long, representative or authorized agent for Enterprise Products Operating do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-

Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load exempt waste. RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) ☐ MSDS Information 
☐ RCRA Hazardous Waste Analysis 
☐ Process Knowledge 
☐ Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS , representative for Enterprise Products Operating authorize to complete I, Thomas Long Generator Signature the required testing/sign the Generator Waste Testing Certification. , representative for Agua Moss, LLC do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC. Transporter: To Be Determine **OCD Permitted Surface Waste Management Facility** Name and Facility Permit #: \*Agua Moss, LLC - Permit #: NM-01-009 Address of Facility: SW/4 NW/4 Section 2, Township 29N, Range Crouch Mesa, NM Method of Treatment and/or Disposal: ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other Evaporation Waste Acceptance Status: **APPROVED** DENIED (Must Be Maintained As Permanent Record) PRINT NAME SIGNATURE aste Management Facility Authorized Agent



June 13, 2017

Ashley Maxwell Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: Rattlesnake Canyon

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

OrderNo.: 1705E07

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/26/2017 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1705E07

Date Reported: 6/13/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Rattlesnake Canyon

Lab ID: 1705E07-001

Collection Date: 5/25/2017 10:00:00 AM

Matrix: AQUEOUS

Received Date: 5/26/2017 7:50:00 AM

Client Sample ID: Non Exempt Waste

Analyses Result PQL Qual Units **DF** Date Analyzed Batch **EPA METHOD 7470: MERCURY** Analyst: MED 0.00020 6/7/2017 4:18:17 PM 32154 Mercury 0.00026 mg/L **EPA 6010B: TOTAL RECOVERABLE METALS** Analyst: MED Arsenic ND 5.0 6/7/2017 11:47:55 AM 32128 ma/L Barium ND 100 6/7/2017 11:47:55 AM 32128 mg/L Cadmium 32128 ND 1.0 mg/L 6/7/2017 11:47:55 AM Chromium 6/7/2017 11:47:55 AM 32128 ND 5.0 mg/L Lead ND 5.0 6/7/2017 11:47:55 AM 32128 mg/L Selenium 6/7/2017 11:47:55 AM 32128 ND 1.0 mg/L Silver 6/7/2017 11:47:55 AM 32128 ND 5.0 mg/L **EPA METHOD 8270C: PAHS** Analyst: DAM Naphthalene 6/8/2017 3:32:35 PM 32059 ND 2.5 D µg/L 6/8/2017 3:32:35 PM 32059 1-Methylnaphthalene ND 2.5 D µg/L 2-Methylnaphthalene 6/8/2017 3:32:35 PM 32059 ND 2.5 D µg/L 32059 Acenaphthylene 6/8/2017 3:32:35 PM ND 25 D µg/L Acenaphthene D 6/8/2017 3:32:35 PM 32059 ND 25 µg/L Fluorene ND 2.5 D µg/L 6/8/2017 3:32:35 PM 32059 Phenanthrene ND 2.5 D 6/8/2017 3:32:35 PM 32059 µg/L Anthracene ND 2.5 D 6/8/2017 3:32:35 PM 32059 µg/L Fluoranthene ND 2.5 D µg/L 6/8/2017 3:32:35 PM 32059 32059 Pyrene ND 2.5 D 6/8/2017 3:32:35 PM µg/L Benz(a)anthracene ND 2.5 D µg/L 6/8/2017 3:32:35 PM 32059 32059 Chrysene ND 2.5 D µg/L 6/8/2017 3:32:35 PM 6/8/2017 3:32:35 PM 32059 Benzo(b)fluoranthene ND 25 D µg/L 32059 Benzo(k)fluoranthene ND 2.5 D µg/L 6/8/2017 3:32:35 PM 6/8/2017 3:32:35 PM 32059 Benzo(a)pyrene ND 2.5 D µg/L D 6/8/2017 3:32:35 PM 32059 Dibenz(a,h)anthracene ND 2.5 µg/L D 6/8/2017 3:32:35 PM 32059 Benzo(g,h,i)perylene ND 2.5 µg/L D 6/8/2017 3:32:35 PM 32059 Indeno(1,2,3-cd)pyrene ND 2.5 µg/L 6/8/2017 3:32:35 PM 32059 Surr: N-hexadecane 46.1 34.2-111 D %Rec 6/8/2017 3:32:35 PM 32059 Surr: Benzo(e)pyrene 43.9 39.3-124 D %Rec **EPA METHOD 8260B: VOLATILES** Analyst: DJF Benzene ND 0.50 200 5/26/2017 7:21:35 PM W43112 ma/L 200 5/26/2017 7:21:35 PM W43112 Toluene ND 0.20 mg/L Ethylbenzene ND 0.20 200 5/26/2017 7:21:35 PM W43112 mg/L

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

0.20

0.20

0.20

0.20

mg/L

mg/L

mg/L

mg/L

ND

ND

ND

ND

#### Qualifiers:

Methyl tert-butyl ether (MTBE)

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

1,2-Dichloroethane (EDC)

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10

200 5/26/2017 7:21:35 PM

200 5/26/2017 7:21:35 PM

200 5/26/2017 7:21:35 PM

200 5/26/2017 7:21:35 PM

W43112

W43112

W43112

W43112

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

Lab Order 1705E07

Date Reported: 6/13/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Rattlesnake Canyon

Lab ID: 1705E07-001

Client Sample ID: Non Exempt Waste

Collection Date: 5/25/2017 10:00:00 AM

Matrix: AQUEOUS Received Date: 5/26/2017 7:50:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analys	: DJF
1,2-Dibromoethane (EDB)	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W43112
Naphthalene	ND	0.40	mg/L	200 5/26/2017 7:21:35 PM	W43112
1-Methylnaphthalene	ND	0.80	mg/L	200 5/26/2017 7:21:35 PM	W43112
2-Methylnaphthalene	ND	0.80	mg/L	200 5/26/2017 7:21:35 PM	W43112
Acetone	ND	2.0	mg/L	200 5/26/2017 7:21:35 PM	W43112
Bromobenzene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W43112
Bromodichloromethane	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
Bromoform	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
Bromomethane	ND	0.60	mg/L	200 5/26/2017 7:21:35 PM	W4311
2-Butanone	ND	2.0	mg/L	200 5/26/2017 7:21:35 PM	W43112
Carbon disulfide	ND	2.0	mg/L	200 5/26/2017 7:21:35 PM	W43112
Carbon Tetrachloride	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W43112
Chlorobenzene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
Chloroethane	ND	0.40	mg/L	200 5/26/2017 7:21:35 PM	W4311
Chloroform	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
Chloromethane	ND	0.60	mg/L	200 5/26/2017 7:21:35 PM	W4311
2-Chlorotoluene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
4-Chlorotoluene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
cis-1,2-DCE	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
cis-1,3-Dichloropropene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
1,2-Dibromo-3-chloropropane	ND	0.40	mg/L	200 5/26/2017 7:21:35 PM	W4311
Dibromochloromethane	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
Dibromomethane	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
1,2-Dichlorobenzene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
1,3-Dichlorobenzene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311:
1,4-Dichlorobenzene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311:
Dichlorodifluoromethane	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
1,1-Dichloroethane	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
1,1-Dichloroethene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
1,2-Dichloropropane	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311:
1,3-Dichloropropane	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311:
2,2-Dichloropropane	ND	0.40	mg/L	200 5/26/2017 7:21:35 PM	W4311:
1,1-Dichloropropene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
Hexachlorobutadiene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
2-Hexanone	ND	2.0	mg/L	200 5/26/2017 7:21:35 PM	W4311
Isopropylbenzene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
4-Isopropyltoluene	ND	0.20	mg/L	200 5/26/2017 7:21:35 PM	W4311
4-Methyl-2-pentanone	ND	2.0	mg/L	200 5/26/2017 7:21:35 PM	W4311
Methylene Chloride	ND	0.60	mg/L	200 5/26/2017 7:21:35 PM	W4311

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1705E07

#### Date Reported: 6/13/2017

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Rattlesnake Canyon

**Lab ID:** 1705E07-001

Matrix: AQUEOUS

Collection Date: 5/25/2017 10:00:00 AM Received Date: 5/26/2017 7:50:00 AM

Client Sample ID: Non Exempt Waste

Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	DJF
n-Butylbenzene	ND	0.60	mg/L	200	5/26/2017 7:21:35 PM	W43112
n-Propylbenzene	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
sec-Butylbenzene	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
Styrene	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
tert-Butylbenzene	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1,1,2-Tetrachloroethane	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1,2,2-Tetrachloroethane	ND	0.40	mg/L	200	5/26/2017 7:21:35 PM	W43112
Tetrachloroethene (PCE)	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
trans-1,2-DCE	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
trans-1,3-Dichloropropene	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2,3-Trichlorobenzene	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2,4-Trichlorobenzene	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1,1-Trichloroethane	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
1,1,2-Trichloroethane	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
Trichloroethene (TCE)	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
Trichlorofluoromethane	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
1,2,3-Trichloropropane	ND	0.40	mg/L	200	5/26/2017 7:21:35 PM	W43112
Vinyl chloride	ND	0.20	mg/L	200	5/26/2017 7:21:35 PM	W43112
Xylenes, Total	ND	0.30	mg/L	200	5/26/2017 7:21:35 PM	W43112
Surr: 1,2-Dichloroethane-d4	97.0	70-130	%Rec	200	5/26/2017 7:21:35 PM	W43112
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	200	5/26/2017 7:21:35 PM	W43112
Surr: Dibromofluoromethane	96.0	70-130	%Rec	200	5/26/2017 7:21:35 PM	W43112
Surr: Toluene-d8	100	70-130	%Rec	200	5/26/2017 7:21:35 PM	W43112

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705E07

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: EF	A Method	8260B: VOL	ATILES		
Client ID: PBW	Batcl	n ID: W	3112	F	RunNo: 4	3112				
Prep Date:	Analysis D	Date: 5/	26/2017	5	SeqNo: 1:	356803	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
lenzene	ND	1.0	ATTIVE BE							
oluene	ND	1.0								
thylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
,2,4-Trimethylbenzene	ND	1.0								
,3,5-Trimethylbenzene	ND	1.0								
,2-Dichloroethane (EDC)	ND	1.0								
,2-Dibromoethane (EDB)	ND	1.0								
laphthalene	ND	2.0								
-Methylnaphthalene	ND	4.0								
-Methylnaphthalene	ND	4.0								
cetone	ND	10								
Iromobenzene	ND	1.0								
romodichloromethane	ND	1.0								
romoform	ND	1.0								
romomethane	ND	3.0								
-Butanone	ND	10								
arbon disulfide	ND	10								
arbon Tetrachloride	ND	1.0								
hlorobenzene	ND	1.0								
hloroethane	ND	2.0								
Chloroform	ND	1.0								
hloromethane	ND	3.0								
-Chlorotoluene	ND	1.0								
-Chlorotoluene	ND	1.0								
is-1,2-DCE	ND	1.0								
is-1,3-Dichloropropene	ND	1.0								
,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
ibromomethane	ND	1.0								
,2-Dichlorobenzene	ND	1.0								
,3-Dichlorobenzene	ND	1.0								
4-Dichlorobenzene	ND	1.0								
ichlorodifluoromethane	ND	1.0								
,1-Dichloroethane	ND	1.0								
,1-Dichloroethene	ND	1.0								
,2-Dichloropropane	ND	1.0								
,3-Dichloropropane	ND	1.0								
,2-Dichloropropane	ND	2.0								

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
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- 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 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705E07

13-Jun-17

Client: Sou

Souder, Miller and Associates

Project:

Rattlesnake Canyon

Sample ID rb	Samp	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batc	h ID: W	43112	F	RunNo: 4	3112				
Prep Date:	Analysis [	Date: 5/	26/2017	\$	SeqNo: 1	356803	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
1-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.5	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID 100ng Ics	SampT	ype: LC	S	Tes						
Client ID: LCSW	Batch	n ID: W	13112	F	RunNo: 4	3112				
Prep Date:	Analysis D	Date: 5/	26/2017	S	SeqNo: 1	356804	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 5 of 10

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

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705E07

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID 100ng Ics	Sampl	ype: LC	S	Tes	tCode: E	PA Method	8260B: VOL	ATILES			
Client ID: LCSW	Batcl	n ID: W	13112	F	RunNo: 4	3112					
Prep Date:	Analysis [	Analysis Date: 5/26/2017			SeqNo: 1	356804	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	23	1.0	20.00	0	115	70	130				
Trichloroethene (TCE)	19	1.0	20.00	0	96.6	70	130				
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.6	70	130				
Surr: 4-Bromofluorobenzene	9.5		10.00		94.5	70	130				
Surr: Dibromofluoromethane	9.8		10.00		97.8	70	130				
Surr: Toluene-d8	9.8		10.00		98.0	70	130				

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
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Page 6 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705E07

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID Ics-32059	SampT	ype: LC	S	Tes	tCode: El	PA Method	8270C: PAHs			
Client ID: LCSW	Batcl	h ID: 32	059	F	RunNo: 4	3417				
Prep Date: 6/1/2017	Analysis D	Date: 6/	8/2017	S	SeqNo: 1	366948	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	12	0.50	20.00	0	60.0	37.4	120			
1-Methylnaphthalene	12	0.50	20.00	0	60.4	39.3	121			
2-Methylnaphthalene	12	0.50	20.00	0	60.9	37.8	122			
Acenaphthylene	14	0.50	20.00	0	68.2	37	124			
Acenaphthene	13	0.50	20.00	0	64.9	35.6	123			
Fluorene	14	0.50	20.00	0	69.0	35.2	122			
Phenanthrene	14	0.50	20.00	0	71.1	38.8	122			
Anthracene	14	0.50	20.00	0	71.5	37.5	125			
Fluoranthene	14	0.50	20.00	0	72.3	37.4	131			
Pyrene	15	0.50	20.00	0	72.9	27.5	140			
Benz(a)anthracene	15	0.50	20.00	0	74.9	25.4	141			
Chrysene	13	0.50	20.00	0	66.8	33.6	155			
Benzo(b)fluoranthene	14	0.50	20.00	0	70.6	39	153			
Benzo(k)fluoranthene	14	0.50	20.00	0	68.3	38	154			
Benzo(a)pyrene	14	0.50	20.00	0	67.9	38.6	153			
Dibenz(a,h)anthracene	14	0.50	20.00	0	72.3	39.7	155			
Benzo(g,h,i)perylene	14	0.50	20.00	0	68.9	39.6	154			
ndeno(1,2,3-cd)pyrene	14	0.50	20.00	0	68.1	19.1	153			
Surr: N-hexadecane	47		87.60		54.0	34.2	111			
Surr: Benzo(e)pyrene	14		20.00		70.5	39.3	124			

Sample ID Icsd-32059	Samp	ype: LC	SD	Tes	tCode: El	PA Method				
Client ID: LCSS02	Batc	Batch ID: 32059		F	RunNo: 4	3417				
Prep Date: 6/1/2017 Analysis Date: 6/8/2017		5	SeqNo: 1366949							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	12	0.50	20.00	0	61.9	37.4	120	3.12	20	
1-Methylnaphthalene	12	0.50	20.00	0	61.2	39.3	121	1.32	26.8	
2-Methylnaphthalene	12	0.50	20.00	0	62.3	37.8	122	2.27	23.8	
Acenaphthylene	13	0.50	20.00	0	67.2	37	124	1.48	28.6	
Acenaphthene	13	0.50	20.00	0	64.2	35.6	123	1.08	27	
Fluorene	13	0.50	20.00	0	66.0	35.2	122	4.44	25.7	
Phenanthrene	14	0.50	20.00	0	70.4	38.8	122	0.989	20	
Anthracene	14	0.50	20.00	0	69.7	37.5	125	2.55	21.2	
Fluoranthene	14	0.50	20.00	0	70.8	37.4	131	2.10	21.8	
Pyrene	15	0.50	20.00	0	75.4	27.5	140	3.37	31.1	
Benz(a)anthracene	15	0.50	20.00	0	74.5	25.4	141	0.535	26.6	
Chrysene	14	0.50	20.00	0	70.4	33.6	155	5.25	21.2	
Benzo(b)fluoranthene	15	0.50	20.00	0	73.5	39	153	4.02	20	

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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### Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: 1705E07

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID mb-32059

Sample ID Icsd-32059	SampT	ype: LC	SD	Tes	tCode: El	PA Method				
Client ID: LCSS02	Batcl	Batch ID: <b>32059</b> Analysis Date: <b>6/8/2017</b>		F	RunNo: 4	3417				
Prep Date: 6/1/2017	Analysis D			SeqNo: 1366949			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	14	0.50	20.00	0	68.3	38	154	0	21	
Benzo(a)pyrene	14	0.50	20.00	0	68.9	38.6	153	1.46	24.8	
Dibenz(a,h)anthracene	14	0.50	20.00	0	71.9	39.7	155	0.555	26	
Benzo(g,h,i)perylene	14	0.50	20.00	0	70.8	39.6	154	2.72	20	
ndeno(1,2,3-cd)pyrene	14	0.50	20.00	0	69.0	19.1	153	1.31	20	
Surr: N-hexadecane	46		87.60		52.3	34.2	111	0	0	
Surr: Benzo(e)pyrene	14		20.00		70.3	39.3	124	0	0	

TestCode: EPA Method 8270C: PAHs

Client ID: PBW	Batcl	h ID: 32	059	F	RunNo: 4	3417				
Prep Date: 6/1/2017	Analysis Date: 6/8/2017		SeqNo: 1366950			Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50	THE PARTY							
I-Methylnaphthalene	ND	0.50								
2-Methylnaphthalene	ND	0.50								
Acenaphthylene	ND	0.50								
Acenaphthene	ND	0.50								
Fluorene	ND	0.50								
Phenanthrene	ND	0.50								
Anthracene	ND	0.50								
Fluoranthene	ND	0.50								
yrene	ND	0.50								
Benz(a)anthracene	ND	0.50								
Chrysene	ND	0.50								
Benzo(b)fluoranthene	ND	0.50								
Benzo(k)fluoranthene	ND	0.50								
Benzo(a)pyrene	ND	0.50								
Dibenz(a,h)anthracene	ND	0.50								
Benzo(g,h,i)perylene	ND	0.50								
ndeno(1,2,3-cd)pyrene	ND	0.50								
Surr: N-hexadecane	45		87.60		51.6	34.2	111			
Surr: Benzo(e)pyrene	15		20.00		73.4	39.3	124			

#### 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
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 8 of 10 Sample pH Not In Range

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705E07

Page 9 of 10

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID MB-32154 SampType: MBLK TestCode: EPA Method 7470: Mercury

Client ID: PBW Batch ID: 32154 RunNo: 43332

Prep Date: 6/7/2017 Analysis Date: 6/7/2017 SeqNo: 1364044 Units: mg/L

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

Mercury ND 0.00020

Sample ID LCS-32154 SampType: LCS TestCode: EPA Method 7470: Mercury

Client ID: LCSW Batch ID: 32154 RunNo: 43332

Prep Date: 6/7/2017 Analysis Date: 6/7/2017 SegNo: 1364045 Units: mg/L

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

Mercury 0.0050 0.00020 0.005000 0 99.4 80 120

- \* Value exceeds Maximum Contaminant Level.
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- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1705E07

13-Jun-17

Client: Souder, Miller and Associates

Project: Rattlesnake Canyon

Sample ID MB-32128	Samp	Type: ME	BLK	Tes	tCode: El	PA 6010B:	Total Recove	rable Met	als	
Client ID: PBW	Bato	th ID: 32	128	F	RunNo: 4	3315				
Prep Date: 6/6/2017	Analysis I	Date: 6/	7/2017	5	SeqNo: 1	363670	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020	STEIN					30	The state of the s	
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID LCS-32128	Samp	Type: LC	s	Tes	tCode: El	PA 6010B:	Total Recover	rable Meta	als	
Client ID: LCSW	Bato	ch ID: 32	128	F	RunNo: 4	3315				
Prep Date: 6/6/2017	Analysis	Date: 6/	7/2017	8	SeqNo: 1	363671	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.50	0.020	0.5000	0	99.2	80	120		1500	
Barium	0.49	0.020	0.5000	0	97.6	80	120			
Cadmium	0.49	0.0020	0.5000	0	97.2	80	120			
Chromium	0.49	0.0060	0.5000	0	97.2	80	120			
Lead	0.48	0.0050	0.5000	0	96.5	80	120			
Selenium	0.50	0.050	0.5000	0	99.0	80	120			
Silver	0.10	0.0050	0.1000	0	100	80	120			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level,
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Client Name: CMA FARM	Website: www.ha				
lient Name: SMA-FARM	Work Order Number:	1705E07		RcptNo:	1
eceived By: Andy Freeman	5/26/2017 7:50:00 AM		and the		
ompleted By: Ashley Gallegos	5/26/2017 1:22:11 PM		A		
eviewed By: SPLC 05/26	117		0		
nain of Custody					
Custody seals intact on sample bottles?		Yes 🗆	No 🗆	Not Present	
Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
How was the sample delivered?		Courier			
og In					
. Was an attempt made to cool the sample	es?	Yes 🗹	No 🗆	NA 🗆	
. Were all samples received at a temperal	ture of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
Sufficient sample volume for indicated te	st(s)?	Yes 🗹	No 🗆		
. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗆		
. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
).VOA vials have zero headspace?		Yes 🗹	No 🗆	No VOA Vials	
. Were any sample containers received be	oken?	Yes 🗆	No 🗹	# of preserved	
Does paperwork match bottle labels?     (Note discrepancies on chain of custody)		Yes 🗸	No 🗆	bottles checked for pH:	>12 unless not
Are matrices correctly identified on Chair	of Custody?	Yes 🔽	No 🗆	Adjusted?	100
ls it clear what analyses were requested?		Yes 🔽	No 🗆		6
. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	
ecial Handling (if applicable)					
Was client notified of all discrepancies wi	th this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail F	Phone Fax	☐ In Person	
Regarding:					
Client Instructions:	- 0.		and the state of t		
. Additional remarks:					
Cooler Information  Cooler No Temp °C Condition	Continue   Course   Co				
	Seal Intact   Seal No   S	eal Date	Signed By		
		***	1		

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 845-3975 Fax 505-345-4107 Analysis Request	(N to Y	) səldduR viA		The LP The state of the state o
ENVIRONMEN YSIS LABORAT environmental.com Albuquerque, NM 87109 Fax 505-345-4107				Eport 76 Limits Experiments Experiments on the analytical report
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NALYSIS LABO NALYSIS LABO www.hallenvironmental.com ins NE - Albuquerque, NM 87 15-3975 Fax 505-345-4107 Analysis Request	les / 8082 PCB's		X	1657, R. A. T. L. L. P. L.
S S S S S S S S S S S S S S S S S S S	( <sub>b</sub> O2, <sub>p</sub> Oq, <sub>S</sub> ON, <sub>E</sub> ON			12 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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T 4 , ix	(1.814)	TPH (Method		W W W
# HALL ANAL ANAL ANAW. hall www.hall 4901 Hawkins NE - Tel. 505-345-3975	GRO / DRO / MRO)	) 82108 H9T		Marks:  Kibo Full  Compound  Compound  Militaics  Many subcontracted
64 1	E + TPH (Gas only)			Remarks:
	E + TMB's (8021)	8TM + X3T8		S Poss
d Time:  d = Rush  ne:  LESWALE CANYON	And Constant	ative H 700	VARious 00)	Date Time Remarks:  **Remarks: All Conference of this possibility. Any sub-contracted data will be clearly-morphological accounts. The conference of this possibility. Any sub-contracted data will be clearly-morphological.
Turn-Around Time:  Standard Project Name:  AHLES Project #:	Ash (Fy M) Sampler: Laway On Ice: Lites	Container Type and #	NARions	Received by:
Chain-of-Custody Record  Slent: Saussa Willsk + Avec  Aailing Address: Let W. Ryan An WAY  Francis Let W. Lyan & STYCL  Shone #: Sac 2255-7555	F. Askley	Time Matrix Sample Request ID	125-17 10:00 4-0 MONIENE MODELLE WAS ENTRICONS	Time: Relinquished by:  [3/4
Ch. Silent.	Mail or Fax#: payoc Package: Dayoc P	Date Time	[LF52]	25-17 (344 25-17 (344 3ate: Time:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

COMMENTS

Action 284141

#### **COMMENTS**

Operator:	OGRID:
AGUA MOSS, LLC	247130
P.O. Box 600	Action Number:
Farmington, NM 87499	284141
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

#### COMMENTS

Created	By Comment Com	Comment Date
cchav	z Quarterly Waste Analyses Information 2017	11/8/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 284141

#### **CONDITIONS**

Operator:	OGRID:
AGUA MOSS, LLC	247130
P.O. Box 600	Action Number:
Farmington, NM 87499	284141
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

#### CONDITIONS

Created	By Condition Condition	Condition Date
cchave	Condition of Approval: 1. Follow Discharge Permit Guidelines, Content, and Deadline Dates for submittal of future reports.	11/8/2023