

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

February 03, 2016

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

OrderNo.: 1601A13

RE: Illustrated Man Fe Com #1H

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/27/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1601A13

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/3/2016

CLIENT:	Souder, Miller & Associates		C	lient Samp	e ID: C1						
Project:	Illustrated Man Fe Com #1H	Collection Date: 1/22/2016 10:00:00 AM									
Lab ID:	1601A13-001	Matrix:	SOIL	Received	Date: 1/2	27/2016 9:10:00 AM					
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch				
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	: KJH				
Diesel R	ange Organics (DRO)	360	10	mg/Kg	1	1/29/2016 8:56:10 PM	23457				
Motor Oi	I Range Organics (MRO)	300	51	mg/Kg	1	1/29/2016 8:56:10 PM	23457				
Surr: [ONOP	82.0	70-130	%Rec	1	1/29/2016 8:56:10 PM	23457				
EPA MET	HOD 8015D: GASOLINE RANG	θE				Analyst	: NSB				
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	1/28/2016 6:42:36 PM	23437				
Surr: E	3FB	99.5	66.2-112	%Rec	1	1/28/2016 6:42:36 PM	23437				
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB				
Methyl te	ert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	1/28/2016 6:42:36 PM	23437				
Benzene	•	ND	0.048	mg/Kg	1	1/28/2016 6:42:36 PM	23437				
Toluene		ND	0.048	mg/Kg	1	1/28/2016 6:42:36 PM	23437				
Ethylben	zene	ND	0.048	mg/Kg	1	1/28/2016 6:42:36 PM	23437				
Xylenes,	Total	ND	0.097	mg/Kg	1	1/28/2016 6:42:36 PM	23437				
Surr: 4	4-Bromofluorobenzene	116	80-120	%Rec	1	1/28/2016 6:42:36 PM	23437				

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

Refer to the Q	C Summary	report and	sample login	checklist for	c data and pres	

Qualifiers: *	Value exceeds Maximum Contaminant Level.
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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 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1601A13

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/3/2016

CLIENT: Souder, Miller & Associates		C	lient Samp	le ID: L1		
Project: Illustrated Man Fe Com #1H			Collection 2	Date: 1/2	22/2016 10:00:00 AM	
Lab ID: 1601A13-002	Matrix:	SOIL	Received	Date: 1/2	27/2016 9:10:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANIC	s			Analyst	: KJH
Diesel Range Organics (DRO)	110	9.6	mg/Kg	1	2/2/2016 1:03:46 PM	23457
Motor Oil Range Organics (MRO)	84	48	mg/Kg	1	2/2/2016 1:03:46 PM	23457
Surr: DNOP	89.1	70-130	%Rec	1	2/2/2016 1:03:46 PM	23457
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/28/2016 7:06:01 PM	23437
Surr: BFB	96.5	66.2-112	%Rec	1	1/28/2016 7:06:01 PM	23437
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	1/28/2016 7:06:01 PM	23437
Benzene	ND	0.049	mg/Kg	1	1/28/2016 7:06:01 PM	23437
Toluene	ND	0.049	mg/Kg	1	1/28/2016 7:06:01 PM	23437
Ethylbenzene	ND	0.049	mg/Kg	1	1/28/2016 7:06:01 PM	23437
Xylenes, Total	ND	0.097	mg/Kg	1	1/28/2016 7:06:01 PM	23437
Surr: 4-Bromofluorobenzene	114	80-120	%Rec	1	1/28/2016 7:06:01 PM	23437

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
	Н	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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 5 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

		, 515 L		or y, me.						03-Feb-10
,	, Miller & As ted Man Fe (
8457	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
	Batch	n ID: 234	457	R	RunNo: 3	1772				
2016	Analysis D	ate: 1/	29/2016	SeqNo: 972472			Units: mg/Kg			
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
(DRO)	ND	10								
ics (MRO)	ND	50								
	8.0		10.00		79.7	70	130			

Surr: DNOP	8.0	10.00		79.7	70	130			
Sample ID LCS-23457	SampType: L(Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 23	3457	R	RunNo: 3	1772				
Prep Date: 1/28/2016	Analysis Date: 1	/29/2016	S	SeqNo: 97	72474	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40 10	50.00	0	80.4	65.8	136			
Surr: DNOP	3.9	5.000		77.4	70	130			
Sample ID MB-23497	SampType: M	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 23	3497	RunNo: 31813						
Prep Date: 2/1/2016	Analysis Date: 2	2/1/2016	S	SeqNo: 97	73617	Units: %Red	C		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.6	10.00		76.4	70	130			
Sample ID LCS-23497	SampType: LO	cs	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 23	3497	R	RunNo: 3	1813				
Prep Date: 2/1/2016	Analysis Date: 2	2/1/2016	S	SeqNo: 97	73618	Units: %Red	0		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP									

Qualifiers:

Client:

Project:

Client ID:

Analyte

Sample ID MB-23457

Prep Date: 1/28/2016

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

PBS

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

1601A13 03-Feb-16

WO#:

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1601A13
	03-Feb-16

,	Miller & Asso ed Man Fe Cor								
Sample ID MB-23437	SampType	: MBLK	Test	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID	23437	R	RunNo: 31744					
Prep Date: 1/27/2016	Analysis Date	: 1/28/2016	S	SeqNo: 971845	Units: mg/l	Kg			
Analyte	Result F	QL SPK value	SPK Ref Val	%REC LowLin	mit HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO) Surr: BFB	ND 930	5.0 1000		92.7 66	6.2 112				
Sample ID LCS-23437	SampType	E LCS	Test	tCode: EPA Meth	nod 8015D: Gase	oline Rang	e		
Client ID: LCSS	Batch ID	23437	R	RunNo: 31744					
Prep Date: 1/27/2016	Analysis Date	1/28/2016	S	GeqNo: 971846	Units: mg/l	Kg			
Analyte	Result F	QL SPK value	SPK Ref Val	%REC LowLin	mit HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	5.0 25.00	0	97.5 79	9.6 122				
Surr: BFB	1000	1000		101 60	6.2 112				

Qualifiers:

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- 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 5

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#:	1601A13
	1001A15

03-Feb-16

Client: Soude	Souder, Miller & Associates									
Project: Illustr	ated Man Fe	Н								
Sample ID MB-23437	Samp	Туре: МЕ	BLK	Test	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	437	R	unNo: 3	1744					
Prep Date: 1/27/2016	Analysis E	Date: 1/	28/2016	S	eqNo: 9	71860	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			
Sample ID LCS-23437	Samp	Type: LC	S	Test	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 234	437	R	RunNo: 31744					
Prep Date: 1/27/2016	Analysis E	Date: 1/	28/2016	S	eqNo: 9	71861	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Methyl tert-butyl ether (MTBE)	Result 0.86	PQL 0.10	SPK value 1.000	SPK Ref Val 0	%REC 85.7	LowLimit 67.2	HighLimit 121	%RPD	RPDLimit	Qual
							3	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.86	0.10	1.000	0	85.7	67.2	121	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE) Benzene	0.86 0.88	0.10 0.050	1.000 1.000	0	85.7 87.7	67.2 80	121 120	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE) Benzene Toluene	0.86 0.88 0.89	0.10 0.050 0.050	1.000 1.000 1.000	0 0 0	85.7 87.7 88.7	67.2 80 80	121 120 120	%RPD	RPDLimit	Qual

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

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Number:	1601A	13		RcptNo:	1
Received by/da	ate: AT 01/2	7/16					
Logged By:	Anne Thorne	1/27/2016 9:10:00 AM	I		anne In	~	
Completed By:	Anne Thorne	1/27/2016			Anne Hr. Anne Hr.		
Reviewed By:	C.	01/29/16			Cana Jr c	-	
Chain of Cu	stody						
	als intact on sample bot	tles?	Yes	\checkmark	No 🗆	Not Present	
	Custody complete?		Yes	\checkmark	No 🗌	Not Present	
3. How was th	e sample delivered?		<u>Couri</u>	<u>er</u>			
<u>Log In</u>							
	empt made to cool the s	amples?	Yes		No 🗌	NA 🗔	
5. Were all sa	mples received at a term	perature of >0° C to 6.0°C	Yes	✓	No 🗍	NA 🗌	
6. Sample(s)	in proper container(s)?		Yes	✓	No 🗍		
7. Sufficient s	ample volume for indicat	ted test(s)?	Yes	✓	No 🗌		
8. Are sample	s (except VOA and ONG	G) properly preserved?	Yes	✓	No 🗌		
9. Was preser	vative added to bottles?	,	Yes		No 🔽	NA 🗀	
10.VOA vials h	nave zero headspace?		Yes		No 🗌	No VOA Vials 🗹	
	sample containers receiv	ved broken?	Yes		No 🔽		
					_	# of preserved bottles checked	
	rwork match bottle labels epancies on chain of cus		Yes	\checkmark	No 🗌	for pH:	or >12 unless noted)
-	es correctly identified on		Yes	✓	No 🗆	Adjusted?	·
14. Is it clear w	hat analyses were reque	ested?	Yes	\checkmark	No 🗌		
	lding times able to be m y customer for authorizat		Yes	✓	No 🗌	Checked by:	
Special Han	dling (if applicable)					
	notified of all discrepand	-	Yes		No 🗌	NA 🗹	
-	on Notified:	Date					
By W	<u>e</u>	 	eMa	il 🗍	Phone 🗌 Fax	c 🗌 in Person	
-	rding:						
-	t Instructions:	· · · · · · · · · · · · · · · · · · ·		<u></u>			
17. Additional	remarks:	· · · · · · · · · · · · · · · · · · ·					
18. <u>Cooler inf</u>	ormation						
Cooler	No Temp C Condit		Seal Da	te	Signed By	_	
1	2.2 Good	Yes					
							<u> </u>

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nd Time:	ard 🗆 Rush		tuted Nom Fe Con #14			anager:	high Weyne		Sample Temperature: 2 2	er Preservative HEAL No. 1# Type ILOUA		202							Centrest Of 7/16 0410	Date Time
Turn-Around Time:	Contraction of the second seco	Project Name:	T // ystr to	Project #:	_	Project Manager:	\prec	Sampler: On Ice:	Sample T	Container Type and #	rok	7						 	Received by:	Received by:
Chain-of-Custody Record	SMA	Carlesbard					Level 4 (Full Validation)	□ Other		Matrix Sample Request ID	Sal CI	r 11	-						Relinquished by:	Relinquished by:
ain-c			ddress:			ax#:	ckage: Ird		Lype)		000	7							Time: R	Time:
ч	ient:		ailing Address:		10ne #:	nail or Fax#:	<pre>\QC Package: Standard</pre>	creditation NELAP	EDD (Type)	Date	19.2	7								ate: Ti

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