



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

February 03, 2016

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

RE: Illustrated Man Fe Com #1H

OrderNo.: 1601A13

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1601A13

Date Reported: 2/3/2016

CLIENT: Souder, Miller & Associates

Client Sample 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: 1/27/2016 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	360	10		mg/Kg	1	1/29/2016 8:56:10 PM	23457
Motor Oil Range Organics (MRO)	300	51		mg/Kg	1	1/29/2016 8:56:10 PM	23457
Surr: DNOP	82.0	70-130		%Rec	1	1/29/2016 8:56:10 PM	23457
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/28/2016 6:42:36 PM	23437
Surr: BFB	99.5	66.2-112		%Rec	1	1/28/2016 6:42:36 PM	23437
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-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
Ethylbenzene	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-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.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1601A13

Date Reported: 2/3/2016

CLIENT: Souder, Miller & Associates

Client Sample ID: L1

Project: Illustrated Man Fe Com #1H

Collection Date: 1/22/2016 10:00:00 AM

Lab ID: 1601A13-002

Matrix: SOIL

Received Date: 1/27/2016 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							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 RANGE							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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601A13

03-Feb-16

Client: Souder, Miller & Associates

Project: Illustrated Man Fe Com #1H

Sample ID	MB-23457		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 23457		RunNo: 31772					
Prep Date:	1/28/2016		Analysis Date: 1/29/2016		SeqNo: 972472		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		79.7	70	130			

Sample ID	LCS-23457		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 23457		RunNo: 31772					
Prep Date:	1/28/2016		Analysis Date: 1/29/2016		SeqNo: 972474		Units: mg/Kg			
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: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 23497		RunNo: 31813					
Prep Date:	2/1/2016		Analysis Date: 2/1/2016		SeqNo: 973617		Units: %Rec			
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: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 23497		RunNo: 31813					
Prep Date:	2/1/2016		Analysis Date: 2/1/2016		SeqNo: 973618		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		76.6	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601A13

03-Feb-16

Client: Souder, Miller & Associates

Project: Illustrated Man Fe Com #1H

Sample ID	MB-23437		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 23437		RunNo: 31744					
Prep Date:	1/27/2016		Analysis Date: 1/28/2016		SeqNo: 971845		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.7	66.2	112			

Sample ID	LCS-23437		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 23437		RunNo: 31744					
Prep Date:	1/27/2016		Analysis Date: 1/28/2016		SeqNo: 971846		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.5	79.6	122			
Surr: BFB	1000		1000		101	66.2	112			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601A13

03-Feb-16

Client: Souder, Miller & Associates

Project: Illustrated Man Fe Com #1H

Sample ID	MB-23437		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 23437		RunNo: 31744					
Prep Date:	1/27/2016		Analysis Date: 1/28/2016		SeqNo: 971860		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
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		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 23437		RunNo: 31744					
Prep Date:	1/27/2016		Analysis Date: 1/28/2016		SeqNo: 971861		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.86	0.10	1.000	0	85.7	67.2	121			
Benzene	0.88	0.050	1.000	0	87.7	80	120			
Toluene	0.89	0.050	1.000	0	88.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.3	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		115	80	120			

Qualifiers:

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Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1601A13

RcptNo: 1

Received by/date: *JA* 01/27/16

Logged By: Anne Thorne

1/27/2016 9:10:00 AM

Anne Thorne

Completed By: Anne Thorne

1/27/2016

Anne Thorne

Reviewed By: *JA*

01/27/16

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Yes			

