



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

March 22, 2022

Kyle Siesser

Cottonwood Consulting LLC

PO BOX 1653

Durango, CO 81302

TEL: (970) 764-7356

FAX:

Mudge B 012R data
analysis for SVE
system received for the
record, report dated
March 22, 2022.

RECEIVED

By Mike Buchanan at 3:31 pm, Jan 19, 2024

RE: Mudge B 012R

OrderNo.: 2203995

Dear Kyle Siesser:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/18/2022 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 #NM0901

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203995

Date Reported: 3/22/2022

CLIENT: Cottonwood Consulting LLC

Client Sample ID: SVE

Project: Mudge B 012R

Collection Date: 3/17/2022 11:20:00 AM

Lab ID: 2203995-001

Matrix: AIR

Received Date: 3/18/2022 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	750	10		µg/L	2	3/21/2022 9:35:47 AM	G86621
Surr: BFB	933	37.3-213	S	%Rec	2	3/21/2022 9:35:47 AM	G86621
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.20		µg/L	2	3/21/2022 9:35:47 AM	B86621
Toluene	0.30	0.20		µg/L	2	3/21/2022 9:35:47 AM	B86621
Ethylbenzene	ND	0.20		µg/L	2	3/21/2022 9:35:47 AM	B86621
Xylenes, Total	16	0.40		µg/L	2	3/21/2022 9:35:47 AM	B86621
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	2	3/21/2022 9:35:47 AM	B86621

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 3

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203995

22-Mar-22

Client: Cottonwood Consulting LLC

Project: Mudge B 012R

Sample ID: 2203995-001ADUP		SampType: DUP		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SVE		Batch ID: G86621		RunNo: 86621						
Prep Date:		Analysis Date: 3/21/2022		SeqNo: 3057877		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	740	10						1.47	20	
Surr: BFB	32000		4000		812	37.3	213	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203995

22-Mar-22

Client: Cottonwood Consulting LLC

Project: Mudge B 012R

Sample ID: 2203995-001ADUP		SampType: DUP		TestCode: EPA Method 8021B: Volatiles						
Client ID: SVE		Batch ID: B86621		RunNo: 86621						
Prep Date:		Analysis Date: 3/21/2022		SeqNo: 3057919		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.20						0	20	
Toluene	0.22	0.20						28.4	20	R
Ethylbenzene	ND	0.20						0	20	
Xylenes, Total	16	0.40						1.40	20	
Surr: 4-Bromofluorobenzene	4.5		4.000		112	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

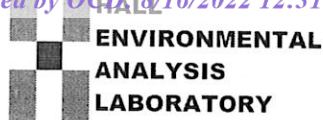
E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 3



4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Cottonwood Consulting
LLC

Work Order Number: 2203995

RcptNo: 1

Received By: Cheyenne Cason

3/18/2022 8:05:00 AM

Completed By: Sean Livingston

3/18/2022 8:38:47 AM

Reviewed By: *JS 3-18-22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☐ NA ☒
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. 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: *JS 3/18/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

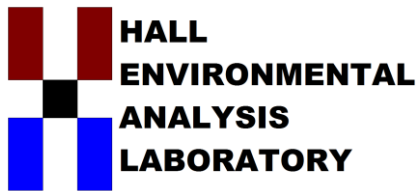
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
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June 16, 2022

Kyle Siesser

Cottonwood Consulting LLC

PO BOX 1653

Durango, CO 81302

TEL: (970) 764-7356

FAX:

RECEIVED

By Mike Buchanan at 3:33 pm, Jan 19, 2024

RE: Mudge B 012R

SVE system data
received for the record
for Mudge B 012R,
report data June 16,
2022.

OrderNo.: 2206599

Dear Kyle Siesser:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/10/2022 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 #NM0901

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2206599

Date Reported: 6/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Cottonwood Consulting LLC

Client Sample ID: SVE

Project: Mudge B 012R

Collection Date: 6/9/2022 12:45:00 PM

Lab ID: 2206599-001

Matrix: AIR

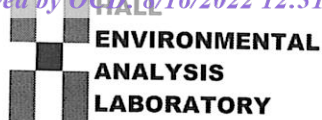
Received Date: 6/10/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: CCM
Benzene	ND	0.20		µg/L	2	6/14/2022 5:02:00 PM
Toluene	ND	0.20		µg/L	2	6/14/2022 5:02:00 PM
Ethylbenzene	0.24	0.20		µg/L	2	6/14/2022 5:02:00 PM
Xylenes, Total	10	0.30		µg/L	2	6/14/2022 5:02:00 PM
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%Rec	2	6/14/2022 5:02:00 PM
Surr: Dibromofluoromethane	103	70-130		%Rec	2	6/14/2022 5:02:00 PM
Surr: Toluene-d8	115	70-130		%Rec	2	6/14/2022 5:02:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	580	10		µg/L	2	6/14/2022 5:02:00 PM
Surr: BFB	101	70-130		%Rec	2	6/14/2022 5:02:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
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Page 1 of 1



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Sample Log-In Check List

Client Name: Cottonwood Consulting
LLC

Work Order Number: 2206599

RcptNo: 1

Received By: Cheyenne Cason 6/10/2022 7:05:00 AM

Completed By: Tracy Casarrubias 6/10/2022 9:11:12 AM

Reviewed By: *KPG 6.10.22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☐ NA ☒
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. 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: *CMC 6/10/22*

Special Handling (if applicable)

15. 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: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	N/A	Good	Not Present			

Client:

Client:

PO Box 1653

Mudge B #012R
Project #:

Project #:

Project Manager:

Kyle Siesser

100

Sampler: Emma Millar

On Ice: ☒ Yes

# of Coolers:	1
---------------	---

Cooler Temp(including CF): NA

NA

— 100 —

Container	Preservative
-----------	--------------

HEAL No.

tedlar bag - 1

NA

001

■	BTEX / MTBE / TMB's (8021)
	TPH:8015D(GRO / DRO / MRO)
	8081 Pesticides/8082 PCB's
	EDB (Method 504.1)
	PAHs by 8310 or 8270SIMS
	RCRA 8 Metals
	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄
	8260B (VOA)
	8270 (Semi-VOA)
	Total Coliform (Present/Absent)
■	TPH (8015)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenviromental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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
District IV
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 134647

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID:
	329736
	Action Number:
	134647
Action Type:	
[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Mudge B 012R data analysis for SVE system received for the record, report dated March 22, 2022.	1/19/2024
michael.buchanan	SVE system data received for the record for Mudge B 012R, report data June 16, 2022.	1/19/2024