



SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (H2O")	Vacuum Pressure downstream of drum (H2O")	Run Time (Hours)	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic	4-6-23	1	5.1	-44	-36	-	Y	30.5	N	Drum Frozen
Florance		2	104.1	Broken	-	-	Y	20.5	Y	Drum leaking from Drain Valve
Sandoval		1	10.5	Broken	Broken	1681.2	N	14.3	Y	system restarted after Draining drum
Jaquez		3	142.1	-30	-	334.3	Y	28.75	Y	
AL Elliott		5	110.5	-8	-12	1347.5	Y	30.5	Y	
GC4 H180		411	-	-	-	4005.7	Y	-	-	2.6 ps: 160° (1)0.5 (2)0.6 (3)0.5 (4)0.5
Henton		untk	122.7	-56	-	-	Y	31.25	Y	
Mudge B-12R		1	204.7	-44	-30	-	Y	29.25	Y	
Mudge A002	↓	2	96.5	-52	-	-	Y	30.5	Y	

Notes:
 SVE - Soil Vapor Extraction
 OVM - Organic Vapor Monitoring
 ppm- parts per million
 H2O"- inches water
 cfm- cubic feet per minute
 bTOD- below top of drum

RECEIVED
By Mike Buchanan at 10:45 am, Oct 02, 2023

SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (H2O")	Vacuum Pressure downstream of drum (H2O")	Exhaust Rate (cfm) if known	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
AHartle ALS 9A	2-7-23	1	5.4	-38	-47	-	Y	26.5	Y	
Florence		2	2.5 Broken	Broken	-	-	N	27	N	Restarted System, System carries when left
Sandoval		1	2.5 0.4	-	-	-	N	14.25	Y	Attempted to restart Went restart
Jacquez		3	1.0	-	-	-	N	28	N	Attempted to restart Went restart, Drum Frozen
Al Elliot		5	2.4	-	-	-	N	27.5	Y	Attempted to restart will not restart
BCU H80		All	-	-	-	-	Y	-	-	2.6 psi 150°F 2618.0 hrs 1) 0.5 2) 0.5 3) 0.5 4) 0.25
Hendon	✓	unk	106.7	-56	-	-	Y	29.5	Y	
Mudge B12R	2-9-23	1	0.2	-	-	-	N	32.0	N	Attempted to restart System won't start, Drum Frozen
Mudge A2	2-9-23	2	2.1	-54	-	-	Y	30.5	N	Drum Frozen

Notes:
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bTOD- below top of drum

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By Mike Buchanan at 10:43 am, Oct 02, 2023



SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (H2O")	Vacuum Pressure downstream of drum (H2O")	Exhaust Rate (cfm) if known	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Attact: ALS 9A	1-10-23	1	11.1	-46	-37	-	Y	26.5	Y	
Florence 66J16	1	2	23.1	Broken	-	-	N	31.4	N	Drum Frozen
Sandoval	1	1	62.2	-8	Broken	-	N	14	Y	Tank 80-90% Full
Jacquez	1	3	7.4	0.0	Broken	-	N	9	Y	Attempted to restart unit will not turn on
Al Elliot	1	5	165.0	-10	-10	-	Y	27.5	Y	638.8 hours run time
GCU H80	1	All	-	-	-	-	Y	-	-	2.5 PSI 154°F 1947.1 HRS 10.0 20.0 31.0 410.0
Heaton	1	unit	106.6	-66	Broken	-	Y	26.5	Y	
Mudge B12R	1/12/23	1	-	-	-	-	N	32	N	drum frozen - unable to drain. SVE not operational.
Mudge A2	1/12/23	2	0.8	-54	-	-	Y	31	N	water in drum below drain port.

Notes:

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- OVM - Organic Vapor Monitoring
- ppm- parts per million
- H2O"- inches water
- cfm- cubic feet per minute
- bTOD- below top of drum

RECEIVED

By Mike Buchanan at 11:01 am, Oct 02, 2023

SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (H2O")	Vacuum Pressure of drum (H2O")	Run Time (Hours)	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic	6/6/23	1	5.5	-44	0	-	Y	Dry	N	
Florence		2	99.6	Broken	-	-	Y	29"	Y	Drum leaking from drain valve
Sandoval		1	7.3	Broken	Broken	3144.4	Y	Below Port	N	3144.4 hrs
Juaquez		3	123.2	-24	-	1606.7	Y	30"	Y	1606.7 hrs
Al Elliot +		5	96.8	-8	-11	2683.0	Y	Below Port	N	2683.0 hrs
GCU #180		All	-	-	-	5326.6	Y	-	-	110° 2.4 PSI 10.75 20.5 PSI 5326.6 hrs 3)0.5 4)0.5
Hexton		Unv	110.5	-54	-	-	N	Dry	N	Vacuum Pressure Gauge removed (downstream)
Mudge B12R		1	101.1	-44	-29	-	Y	Dry	N	
Mudge A002		2	171.6	-50	-	-	Y	Below Port	N	

Notes:

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- OVM - Organic Vapor Monitoring
- ppm- parts per million
- H2O"- inches water
- cfm- cubic feet per minute
- bTOD- below top of drum



RECEIVED

By Mike Buchanan at 10:47 am, Oct 02, 2023

SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (H2O")	Vacuum Pressure downstream of drum (H2O")	Exhaust Rate (cfm) if known	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic	3/9/23	1	5.9	-36	-46	-	Y	31.25	Y	drum valve leaking
Florence	↓	2	131.3	broken	none	-	Y	24.5	Y	run time 1041.7 hrs
Sandoval		1	13.3	Broken	Broken	-	Y	31.0	Y	Grabbed gas sample @ 1045
Jacquez		3	-	-	-	-	N	-	N	System not operational
Al Elliot	↓	5	132.0	-8	-10	-	Y	30.25	Y	run time 971.7 hours
GCU H80		All	-	-	-	-	Y	-	-	2.5 PSI 150°F 333%0 hours 110.2 210.2 31.25 40.1
Heaton	3/10/23	unk	113.8	-42	-	-	Y	28.5	Y	
Mudge B12E	↓	1	-	-	-	-	-	-	-	unable to access site
Mudge A2		2	109.1	-52	-	-	Y	31.5	N	water in drum below valve

Notes:
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RECEIVED
By Mike Buchanan at 10:56 am, Oct 02, 2023

SVE Monitoring

Location	Date	SVE Point(s)	Exhaust OVM (ppm)	Vacuum Pressure upstream of drum (H2O")	Vacuum Pressure downstream of drum (H2O")	Run Time (Hours)	System Operational at Arrival?	Drum H2O (inches bTOD)	Drum Drained?	Comments
Atlantic	5/3/23	1	38.4	-35	-45	-	Y	32	N	water below port
Florance		2	101.9	Broken	-	-	N	33	N	water below port Restarted system
Sandoval		1	9.6	Broken	Broken	2329.0	Y	26.5	Y	2329.0 hrs
Jaquez		3	-	-	-	-	N	29	Y	System won't start
AL Elliott		5	106.2	-8	-11	1951.3	Y	32	Y	1951.3 hrs
GCU W180		All	-	-	-	4510.2	Y	-	-	2.5 psi 165° Temp 1)0.5 2)0.5 3)1.0 4)0.5
Heaton		unk	104.3	-53	-	-	Y	Dry	N	
Mudge B12R		1	122.3	-44	-29	-	Y	31.5	Y	
Mudge A002	✓	2	69.3	-59	-	-	N	31	N	water below port. restarted system

Prain valve still leaking
45 10.2 hrs
psi

Notes:
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OVM - Organic Vapor Monitoring
ppm- parts per million
H2O"- inches water
cfm- cubic feet per minute
bTOD- below top of drum



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

June 30, 2023

Kyle Siesser

Cottonwood Consulting LLC

PO BOX 1653

Durango, CO 81302

TEL: (970) 764-7356

FAX:

RE: Mudge B 012R

OrderNo.: 2306D59

Dear Kyle Siesser:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/27/2023 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 white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2306D59**

Date Reported: **6/30/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Cottonwood Consulting LLC

Client Sample ID: SVE

Project: Mudge B 012R

Collection Date: 6/21/2023 11:40:00 AM

Lab ID: 2306D59-001

Matrix: AIR

Received Date: 6/27/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	240	10		µg/L	2	6/27/2023 12:44:25 PM
Surr: BFB	589	15-412	S	%Rec	2	6/27/2023 12:44:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	2	6/27/2023 12:44:25 PM
Benzene	ND	0.20		µg/L	2	6/27/2023 12:44:25 PM
Toluene	ND	0.20		µg/L	2	6/27/2023 12:44:25 PM
Ethylbenzene	0.71	0.20		µg/L	2	6/27/2023 12:44:25 PM
Xylenes, Total	4.1	0.40		µg/L	2	6/27/2023 12:44:25 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	2	6/27/2023 12:44:25 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 Above Quantitation Range/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 standard limits. If undiluted results may be estimated.	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306D59

30-Jun-23

Client: Cottonwood Consulting LLC

Project: Mudge B 012R

Sample ID: 2306d59-001adup	SampType: DUP	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SVE	Batch ID: GA97746	RunNo: 97746								
Prep Date:	Analysis Date: 6/27/2023	SeqNo: 3554692			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	240	10						0.0337	20	
Surr: BFB	23000		4000		587	15	412	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2306D59

30-Jun-23

Client: Cottonwood Consulting LLC

Project: Mudge B 012R

Sample ID: 2306d59-001adup	SampType: DUP	TestCode: EPA Method 8021B: Volatiles								
Client ID: SVE	Batch ID: R97746	RunNo: 97746								
Prep Date:	Analysis Date: 6/27/2023	SeqNo: 3554694 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.50						0	20	
Benzene	ND	0.20						0	20	
Toluene	ND	0.20						0	20	
Ethylbenzene	0.71	0.20						0.393	20	
Xylenes, Total	4.1	0.40						1.05	20	
Surr: 4-Bromofluorobenzene	4.1		4.000		102	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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: Cottonwood Consulting LLC

Work Order Number: 2306D59

RcptNo: 1

Received By: Joseph Alderette 6/27/2023 8:40:00 AM

Completed By: Desiree Dominguez 6/27/2023 10:23:10 AM

Reviewed By: JA 6-27-23

Handwritten initials and signature

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? FedEx

Log In

- 3. Was an attempt made to cool the samples? Yes [] No [] NA [checked]
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [] No [] NA [checked]
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: Adjusted? Checked by: jm 6/27/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date: By Whom: Via: [] eMail [] Phone [] Fax [] In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, NA, Good, Yes, NA, [], []

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 247790

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 247790
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	None	10/2/2023