

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

June 23, 2022

Kyle Siesser
Cottonwood Consulting LLC
PO BOX 1653
Durango, CO 81302
TEL: (970) 764-7356
FAX:

RE: Jacquez GC B 003E

OrderNo.: 2206603

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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2206603

Date Reported: 6/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Cottonwood Consulting LLC

Client Sample ID: SVE

Project: Jacquez GC B 003E

Collection Date: 6/8/2022 11:00:00 AM

Lab ID: 2206603-001

Matrix: AIR

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|------------------------------------|--------|------|------|-------|----|----------------------|--------------|
| EPA METHOD 8260B: VOLATILES | | | | | | | Analyst: CCM |
| Benzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Toluene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Ethylbenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Methyl tert-butyl ether (MTBE) | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,2,4-Trimethylbenzene | 0.79 | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,3,5-Trimethylbenzene | 2.3 | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,2-Dichloroethane (EDC) | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Naphthalene | ND | 0.40 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1-Methylnaphthalene | ND | 0.80 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 2-Methylnaphthalene | ND | 0.80 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Acetone | ND | 2.0 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Bromobenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Bromodichloromethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Bromoform | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Bromomethane | ND | 0.40 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 2-Butanone | ND | 2.0 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Carbon disulfide | ND | 2.0 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Carbon tetrachloride | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Chlorobenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Chloroethane | ND | 0.40 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Chloroform | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Chloromethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 2-Chlorotoluene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 4-Chlorotoluene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| cis-1,2-DCE | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| cis-1,3-Dichloropropene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,2-Dibromo-3-chloropropane | ND | 0.40 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Dibromochloromethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Dibromomethane | ND | 0.40 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,2-Dichlorobenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,3-Dichlorobenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,4-Dichlorobenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Dichlorodifluoromethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,1-Dichloroethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,1-Dichloroethene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,2-Dichloropropane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,3-Dichloropropane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 2,2-Dichloropropane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |

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 2

Analytical Report

Lab Order 2206603

Date Reported: 6/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Cottonwood Consulting LLC

Client Sample ID: SVE

Project: Jacquez GC B 003E

Collection Date: 6/8/2022 11:00:00 AM

Lab ID: 2206603-001

Matrix: AIR

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|------------------------------------|--------|--------|------|-------|----|----------------------|--------------|
| EPA METHOD 8260B: VOLATILES | | | | | | | Analyst: CCM |
| 1,1-Dichloropropene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Hexachlorobutadiene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 2-Hexanone | ND | 2.0 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Isopropylbenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 4-Isopropyltoluene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 4-Methyl-2-pentanone | ND | 2.0 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Methylene chloride | ND | 0.60 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| n-Butylbenzene | ND | 0.60 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| n-Propylbenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| sec-Butylbenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Styrene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| tert-Butylbenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,1,1,2-Tetrachloroethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Tetrachloroethene (PCE) | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| trans-1,2-DCE | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| trans-1,3-Dichloropropene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,2,3-Trichlorobenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,2,4-Trichlorobenzene | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,1,1-Trichloroethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,1,2-Trichloroethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Trichloroethene (TCE) | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Trichlorofluoromethane | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| 1,2,3-Trichloropropane | ND | 0.40 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Vinyl chloride | ND | 0.20 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Xylenes, Total | 4.1 | 0.30 | | µg/L | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Surr: Dibromofluoromethane | 107 | 70-130 | | %Rec | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Surr: 1,2-Dichloroethane-d4 | 97.0 | 70-130 | | %Rec | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Surr: Toluene-d8 | 105 | 70-130 | | %Rec | 2 | 6/14/2022 3:50:00 PM | R88708 |
| Surr: 4-Bromofluorobenzene | 95.1 | 70-130 | | %Rec | 2 | 6/14/2022 3:50:00 PM | R88708 |

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 2 of 2



ANALYTICAL SUMMARY REPORT

June 23, 2022

Hall Environmental
4901 Hawkins St NE Ste D
Albuquerque, NM 87109-4372

Work Order: G22060305

Project Name: 2206603

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 6/16/2022 for analysis.

| Lab ID | Client Sample ID | Collect Date | Receive Date | Matrix | Test |
|---------------|------------------|----------------|--------------|--------|--|
| G22060305-001 | 2206603-001A;SVE | 06/08/22 11:00 | 06/16/22 | Gas | Air Correction Calculations Analysis Corrections Calculated Properties GPM @ std cond./1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60 |

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these tests results, please contact your Project Manager.

Report Approved By:



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Billings, MT 800.735.4489 • Casper, WY 888.235.0515
Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

CLIENT: Hall Environmental
Project: 2206603
Work Order: G22060305

Report Date: 06/23/22

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



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LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental
Project: 2206603
Client Sample ID: 2206603-001A;SVE
Location:
Lab ID: G22060305-001

Report Date: 06/23/22
Collection Date: 06/08/22 11:00
Date Received: 06/16/22
Sampled By: Not Provided

| Analyses | Result | Units | Qualifier | Method | Analysis Date / By |
|----------|--------|-------|-----------|--------|--------------------|
|----------|--------|-------|-----------|--------|--------------------|

GAS CHROMATOGRAPHIC ANALYSIS REPORT

| | | | | | |
|------------------|-------|-------|--|-----------|------------------------|
| Oxygen | 21.74 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Nitrogen | 78.07 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Carbon Dioxide | 0.19 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Hydrogen Sulfide | <0.01 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Methane | <0.01 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Ethane | <0.01 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Propane | <0.01 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Isobutane | <0.01 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| n-Butane | <0.01 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Isopentane | <0.01 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| n-Pentane | <0.01 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Hexanes plus | <0.01 | Mol % | | GPA 2261- | 06/20/22 13:50 / eli-b |

GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS

| | | | | | |
|-------------------|---------|-----|--|-----------|------------------------|
| Propane | < 0.001 | gpm | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Isobutane | < 0.001 | gpm | | GPA 2261- | 06/20/22 13:50 / eli-b |
| n-Butane | < 0.001 | gpm | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Isopentane | < 0.001 | gpm | | GPA 2261- | 06/20/22 13:50 / eli-b |
| n-Pentane | < 0.001 | gpm | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Hexanes plus | < 0.001 | gpm | | GPA 2261- | 06/20/22 13:50 / eli-b |
| GPM Total | < 0.001 | gpm | | GPA 2261- | 06/20/22 13:50 / eli-b |
| GPM Pentanes plus | < 0.001 | gpm | | GPA 2261- | 06/20/22 13:50 / eli-b |

CALCULATED PROPERTIES

| | | | | |
|---------------------------------------|-----|--|-----------|------------------------|
| Gross BTU per cu ft @ Std Cond. (HHV) | <1 | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Net BTU per cu ft @ std cond. (LHV) | <1 | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Pseudo-critical Pressure, psia | 546 | | GPA 2261- | 06/20/22 13:50 / eli-b |
| Pseudo-critical Temperature, deg R | 239 | | GPA 2261- | 06/20/22 13:50 / eli-b |

PHYSICAL PROPERTIES-CALCULATED

| | | | | |
|---------------------------|-------|--|----------|------------------------|
| Specific Gravity @ 60/60F | 0.999 | | D3588-81 | 06/20/22 13:50 / eli-b |
|---------------------------|-------|--|----------|------------------------|

COMMENTS

| | | |
|---|---|------------------------|
| - | - | 06/20/22 13:50 / eli-b |
|---|---|------------------------|

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.
- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.
- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.
- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental

Work Order: G22060305

Report Date: 06/22/22

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|---------------------------|-------|------|------|----------------------|------------|------------------|----------------|------|
| Method: GPA 2261-95 | | | | | | | Batch: R383462 | | |
| Lab ID: LCS062022 | Laboratory Control Sample | | | | Run: GCNGA-B_220620A | | | 06/20/22 15:28 | |
| Oxygen | 0.60 | Mol % | 0.01 | 120 | 70 | 130 | | | |
| Nitrogen | 5.97 | Mol % | 0.01 | 99 | 70 | 130 | | | |
| Carbon Dioxide | 1.01 | Mol % | 0.01 | 102 | 70 | 130 | | | |
| Methane | 74.5 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Ethane | 6.07 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Propane | 5.08 | Mol % | 0.01 | 103 | 70 | 130 | | | |
| Isobutane | 2.01 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| n-Butane | 2.00 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Isopentane | 1.01 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| n-Pentane | 1.00 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Hexanes plus | 0.77 | Mol % | 0.01 | 96 | 70 | 130 | | | |
| Lab ID: B22061652-001ADUP | | | | | | | Sample Duplicate | | |
| | | | | | Run: GCNGA-B_220620A | | | 06/20/22 12:55 | |
| Oxygen | 21.3 | Mol % | 0.01 | | | | 0 | 20 | |
| Nitrogen | 77.7 | Mol % | 0.01 | | | | 0.1 | 20 | |
| Carbon Dioxide | 0.77 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Hydrogen Sulfide | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Methane | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Ethane | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Propane | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isobutane | <0.01 | Mol % | 0.01 | | | | | 20 | |
| n-Butane | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isopentane | <0.01 | Mol % | 0.01 | | | | | 20 | |
| n-Pentane | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Hexanes plus | 0.17 | Mol % | 0.01 | | | | 52 | 20 | R |

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

R - Relative Percent Difference (RPD) exceeds advisory limit



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

Work Order Receipt Checklist

Hall Environmental

G22060305

Login completed by: Chantel S. Johnson

Date Received: 6/16/2022

Reviewed by: Alyson T. Degnan

Received by: csj

Reviewed Date: 6/21/2022

Carrier name: FedEx

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on all sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| Container/Temp Blank temperature: | °C | | |
| Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4"). | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None



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

| | | | | | | | | | | | | | |
|---------------------|--------------|----------------------|-------------|------------------|----------------------|--|--|-----------|--|----------------|--|-------|--|
| SUB CONTRACTOR | | Energy Labs-Gillette | | COMPANY | | Energy Laboratories | | PHONE: | | (866) 686-7175 | | FAX | |
| ADDRESS | | 400 W Boxelder Rd | | CITY, STATE, ZIP | | Gillette, WY 82718 | | ACCOUNT # | | | | EMAIL | |
| ITEM | SAMPLE | CLIENT SAMPLE ID | BOTTLE TYPE | MATRIX | COLLECTION DATE | # CONTAINERS | | | | | | | |
| 1 | 2206603-001A | SVE | TEDLAR | Air | 6/8/2022 11:00:00 AM | 1 Natural Gases O ₂ , CO ₂ | | | | | | | |
| ANALYTICAL COMMENTS | | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS/COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenenvironmental.com. Please return all coolers and blue ice. Thank you.

| | | | | | | | |
|----------------------------|-----------------------------------|-------------------------------|----------------------------------|---------------------------------|---------------------------------|---|--|
| Retinquished By: | Date: | Time: | Received By: | Date: | Time: | REPORT TRANSMITTAL DESIRED: | |
| Retinquished By: | 6/10/2022 | 10:01 AM | Received By: | 6/10/2022 | | <input type="checkbox"/> HARD COPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE | |
| Retinquished By: | Date: | Time: | Received By: | Date: | Time: | FOR LAB USE ONLY | |
| TAT: | Standard <input type="checkbox"/> | RUSH <input type="checkbox"/> | Next BD <input type="checkbox"/> | 2nd BD <input type="checkbox"/> | 3rd BD <input type="checkbox"/> | Temp of samples _____ C Attempt to Cool? _____ | |
| Comments: <i>7/20/2022</i> | | | | | | | |



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: 2206603

RcptNo: 1

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

Completed By: Tracy Casarrubias 6/10/2022 9:57:46 AM

Reviewed By: KPC 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 CME 6/10/22

Special Handling (if applicable)

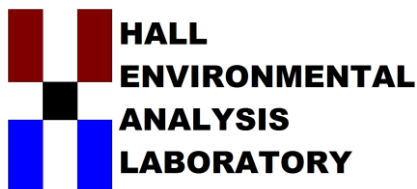
15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

| | | | |
|----------------------|-------|-------|---|
| Person Notified: | _____ | Date: | _____ |
| By Whom: | _____ | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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 | Yes | | | |



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

March 28, 2022

Kyle Siesser

Cottonwood Consulting LLC

PO BOX 1653

Durango, CO 81302

TEL: (970) 764-7356

FAX:

RECEIVED

By Mike Buchanan at 2:20 pm, Oct 16, 2023

RE: Jacquez GC B 003

OrderNo.: 2203996

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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2203996

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Cottonwood Consulting LLC

Client Sample ID: SVE

Project: Jacquez GC B 003

Collection Date: 3/16/2022 9:45:00 AM

Lab ID: 2203996-001

Matrix: AIR

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|------|------|-------|----|----------------------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Toluene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Ethylbenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,2,4-Trimethylbenzene | 0.26 | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,3,5-Trimethylbenzene | 1.1 | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Naphthalene | ND | 0.20 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1-Methylnaphthalene | ND | 0.40 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 2-Methylnaphthalene | ND | 0.40 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Acetone | ND | 1.0 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Bromobenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Bromodichloromethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Bromoform | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Bromomethane | ND | 0.20 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 2-Butanone | ND | 1.0 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Carbon disulfide | ND | 1.0 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Carbon tetrachloride | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Chlorobenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Chloroethane | ND | 0.20 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Chloroform | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Chloromethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 2-Chlorotoluene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 4-Chlorotoluene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| cis-1,2-DCE | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| cis-1,3-Dichloropropene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.20 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Dibromochloromethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Dibromomethane | ND | 0.20 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,2-Dichlorobenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,3-Dichlorobenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,4-Dichlorobenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Dichlorodifluoromethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,1-Dichloroethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,1-Dichloroethene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,2-Dichloropropane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,3-Dichloropropane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 2,2-Dichloropropane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 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 |
| | S | % Recovery outside of range due to dilution or matrix interference | | |

Page 1 of 2

Analytical Report

Lab Order 2203996

Date Reported: 3/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Cottonwood Consulting LLC

Client Sample ID: SVE

Project: Jacquez GC B 003

Collection Date: 3/16/2022 9:45:00 AM

Lab ID: 2203996-001

Matrix: AIR

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

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst: CCM |
| 1,1-Dichloropropene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Hexachlorobutadiene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 2-Hexanone | ND | 1.0 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Isopropylbenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 4-Isopropyltoluene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 4-Methyl-2-pentanone | ND | 1.0 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Methylene chloride | ND | 0.30 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| n-Butylbenzene | ND | 0.30 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| n-Propylbenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| sec-Butylbenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Styrene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| tert-Butylbenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Tetrachloroethene (PCE) | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| trans-1,2-DCE | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| trans-1,3-Dichloropropene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,2,3-Trichlorobenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,2,4-Trichlorobenzene | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,1,1-Trichloroethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,1,2-Trichloroethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Trichloroethene (TCE) | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Trichlorofluoromethane | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| 1,2,3-Trichloropropane | ND | 0.20 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Vinyl chloride | ND | 0.10 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Xylenes, Total | 3.2 | 0.15 | | µg/L | 1 | 3/22/2022 1:02:00 PM |
| Surr: Dibromofluoromethane | 101 | 70-130 | | %Rec | 1 | 3/22/2022 1:02:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 99.5 | 70-130 | | %Rec | 1 | 3/22/2022 1:02:00 PM |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 3/22/2022 1:02:00 PM |
| Surr: 4-Bromofluorobenzene | 93.2 | 70-130 | | %Rec | 1 | 3/22/2022 1:02:00 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 |
| | S | % Recovery outside of range due to dilution or matrix interference | | |

Page 2 of 2



ANALYTICAL SUMMARY REPORT

March 25, 2022

Hall Environmental

4901 Hawkins St NE Ste D

Albuquerque, NM 87109-4372

Work Order: G22030398

Project Name: Not Indicated

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 3/23/2022 for analysis.

| Lab ID | Client Sample ID | Collect Date | Receive Date | Matrix | Test |
|---------------|-------------------|---------------|--------------|--------|--|
| G22030398-001 | 2203996-001A; SVE | 03/16/22 9:45 | 03/23/22 | Air | Natural Gas Analysis - BTU Natural Gas Analysis - Compressibility Factor Natural Gas Analysis - GPM Natural Gas Analysis - Molecular Weight Natural Gas Analysis - Routine Natural Gas Analysis - Pressure Base Natural Gas Analysis - Psuedo- Critical Pressure Natural Gas Analysis - Psuedo- Critical Temperature Natural Gas Analysis - Specific Gravity Natural Gas Analysis - Temperature Base |

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these tests results, please contact your Project Manager.

Report Approved By:



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental
Project: Not Indicated
Client Sample ID: 2203996-001A; SVE
Location:
Lab ID: G22030398-001

Report Date: 03/25/22
Collection Date: 03/16/22 09:45
Date Received: 03/23/22
Sampled By: Not Indicated

Analyses

Result Units Qualifier Method Analysis Date / By

NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT

| | | | |
|------------------|---------------|----------|----------------------|
| Oxygen | 22.113 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| Nitrogen | 77.702 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| Carbon Dioxide | 0.185 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| Hydrogen Sulfide | < 0.001 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| Methane | < 0.001 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| Ethane | < 0.001 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| Propane | < 0.001 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| Isobutane | < 0.001 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| n-Butane | < 0.001 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| Isopentane | < 0.001 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| n-Pentane | < 0.001 Mol % | GPA 2261 | 03/24/22 14:44 / blb |
| Hexanes plus | < 0.001 Mol % | GPA 2261 | 03/24/22 14:44 / blb |

GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS

| | | | |
|-------------------|------------------|----------|----------------------|
| GPM Ethane | < 0.0003 gal/MCF | GPA 2261 | 03/24/22 14:44 / blb |
| GPM Propane | < 0.0003 gal/MCF | GPA 2261 | 03/24/22 14:44 / blb |
| GPM Isobutane | < 0.0003 gal/MCF | GPA 2261 | 03/24/22 14:44 / blb |
| GPM n-Butane | < 0.0003 gal/MCF | GPA 2261 | 03/24/22 14:44 / blb |
| GPM Isopentane | < 0.0004 gal/MCF | GPA 2261 | 03/24/22 14:44 / blb |
| GPM n-Pentane | < 0.0004 gal/MCF | GPA 2261 | 03/24/22 14:44 / blb |
| GPM Hexanes plus | < 0.0004 gal/MCF | GPA 2261 | 03/24/22 14:44 / blb |
| GPM Pentanes plus | < 0.0004 gal/MCF | GPA 2261 | 03/24/22 14:44 / blb |
| GPM Total | < 0.0004 gal/MCF | GPA 2261 | 03/24/22 14:44 / blb |

CALCULATED PROPERTIES

| | | | |
|-------------------------------------|------------------|----------|----------------------|
| Calculation Pressure Base | 14.730 psia | GPA 2261 | 03/24/22 14:44 / blb |
| Calculation Temperature Base | 60 °F | GPA 2261 | 03/24/22 14:44 / blb |
| Compressibility Factor, Z | 1.0000 unitless | GPA 2261 | 03/24/22 14:44 / blb |
| Molecular Weight | 28.92 unitless | GPA 2261 | 03/24/22 14:44 / blb |
| Pseudo-critical Pressure, psia | 548 psia | GPA 2261 | 03/24/22 14:44 / blb |
| Pseudo-critical Temperature, deg R | 240 deg R | GPA 2261 | 03/24/22 14:44 / blb |
| Specific Gravity (air=1.000) | 1.002 unitless | GPA 2261 | 03/24/22 14:44 / blb |
| Gross BTU per cu ft @ std cond, dry | < 0.01 BTU/cu ft | GPA 2261 | 03/24/22 14:44 / blb |
| Gross BTU per cu ft @ std cond, wet | < 0.01 BTU/cu ft | GPA 2261 | 03/24/22 14:44 / blb |

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental

Work Order: G22030398

Report Date: 03/25/22

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--|--------|-------|-------|------|-----------|------------|-------------------------|----------|----------------|
| Method: GPA 2261 | | | | | | | Analytical Run: R270004 | | |
| Lab ID: CCV-2203241254 Continuing Calibration Verification Standard | | | | | | | 03/24/22 12:55 | | |
| Oxygen | 0.637 | Mol % | 0.001 | 106 | 90 | 110 | | | |
| Nitrogen | 1.378 | Mol % | 0.001 | 98 | 85 | 110 | | | |
| Carbon Dioxide | 0.954 | Mol % | 0.001 | 95 | 90 | 110 | | | |
| Hydrogen Sulfide | 0.025 | Mol % | 0.001 | 100 | 70 | 130 | | | |
| Methane | 93.438 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Ethane | 1.014 | Mol % | 0.001 | 101 | 90 | 110 | | | |
| Propane | 1.009 | Mol % | 0.001 | 101 | 90 | 110 | | | |
| Isobutane | 0.495 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| n-Butane | 0.495 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| Isopentane | 0.200 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| n-Pentane | 0.201 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Hexanes plus | 0.154 | Mol % | 0.001 | 103 | 90 | 110 | | | |
| Lab ID: ICV-2203241303 Initial Calibration Verification Standard | | | | | | | 03/24/22 13:04 | | |
| Oxygen | 0.391 | Mol % | 0.001 | 97 | 75 | 110 | | | |
| Nitrogen | 5.154 | Mol % | 0.001 | 103 | 90 | 110 | | | |
| Carbon Dioxide | 4.900 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| Hydrogen Sulfide | 0.130 | Mol % | 0.001 | 131 | 100 | 136 | | | |
| Methane | 73.196 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Ethane | 4.997 | Mol % | 0.001 | 101 | 90 | 110 | | | |
| Propane | 4.993 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Isobutane | 1.984 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| n-Butane | 1.965 | Mol % | 0.001 | 98 | 90 | 110 | | | |
| Isopentane | 0.986 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| n-Pentane | 0.997 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Hexanes plus | 0.307 | Mol % | 0.001 | 102 | 90 | 110 | | | |
| Lab ID: CCV-2203241628 Continuing Calibration Verification Standard | | | | | | | 03/24/22 16:28 | | |
| Oxygen | 0.609 | Mol % | 0.001 | 102 | 90 | 110 | | | |
| Nitrogen | 1.288 | Mol % | 0.001 | 92 | 85 | 110 | | | |
| Carbon Dioxide | 0.965 | Mol % | 0.001 | 97 | 90 | 110 | | | |
| Hydrogen Sulfide | 0.021 | Mol % | 0.001 | 84 | 70 | 130 | | | |
| Methane | 93.560 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Ethane | 1.015 | Mol % | 0.001 | 101 | 90 | 110 | | | |
| Propane | 1.006 | Mol % | 0.001 | 101 | 90 | 110 | | | |
| Isobutane | 0.492 | Mol % | 0.001 | 98 | 90 | 110 | | | |
| n-Butane | 0.492 | Mol % | 0.001 | 98 | 90 | 110 | | | |
| Isopentane | 0.199 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| n-Pentane | 0.200 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Hexanes plus | 0.153 | Mol % | 0.001 | 102 | 90 | 110 | | | |
| Method: GPA 2261 | | | | | | | Batch: R270004 | | |
| Lab ID: G22030398-001ADUP Sample Duplicate | | | | | | | Run: Varian GC_220324A | | |
| Oxygen | 22.112 | Mol % | 0.001 | | | | 0.0 | 10 | 03/24/22 14:50 |

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental

Work Order: G22030398

Report Date: 03/25/22

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|------------------|-------|------------------------|------|-----------|------------|----------------|----------|------|
| Method: GPA 2261 | | | | | | | Batch: R270004 | | |
| Lab ID: G22030398-001ADUP | Sample Duplicate | | Run: Varian GC_220324A | | | | 03/24/22 14:50 | | |
| Nitrogen | 77.703 | Mol % | 0.001 | | | | 0.0 | 10 | |
| Carbon Dioxide | 0.185 | Mol % | 0.001 | | | | 0.0 | 10 | |
| Hydrogen Sulfide | < 0.001 | Mol % | 0.001 | | | | | 10 | |
| Methane | < 0.001 | Mol % | 0.001 | | | | | 10 | |
| Ethane | < 0.001 | Mol % | 0.001 | | | | | 10 | |
| Propane | < 0.001 | Mol % | 0.001 | | | | | 10 | |
| Isobutane | < 0.001 | Mol % | 0.001 | | | | | 10 | |
| n-Butane | < 0.001 | Mol % | 0.001 | | | | | 10 | |
| Isopentane | < 0.001 | Mol % | 0.001 | | | | | 10 | |
| n-Pentane | < 0.001 | Mol % | 0.001 | | | | | 10 | |
| Hexanes plus | < 0.001 | Mol % | 0.001 | | | | | 10 | |

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

Work Order Receipt Checklist

Hall Environmental

G22030398

Login completed by: Jill S. Jeffress

Date Received: 3/23/2022

Reviewed by: Misty Stephens

Received by: csj

Reviewed Date: 3/24/2022

Carrier name: FedEx

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on all sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| Container/Temp Blank temperature: | °C | | |
| Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4"). | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Standard Reporting Procedures:

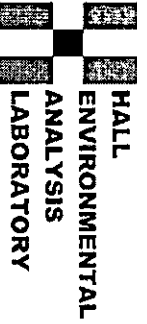
Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None



CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

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

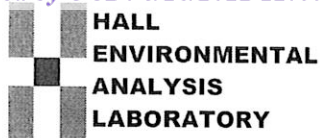
| | | | | | | | | | | | | | |
|------------------|--------------|----------------------|--|-------------|--|---------------------|--|----------------------|--|----------------|---------------------|-----|--|
| SUB CONTRACTOR | | Energy Labs-Gillette | | COMPANY | | Energy Laboratories | | PHONE | | (866) 686-7175 | | FAX | |
| ADDRESS | | 400 W Borelder Rd | | ACCOUNT # | | | | EMAIL | | | | | |
| CITY, STATE, ZIP | | Gillette, WY 82718 | | | | | | | | | | | |
| ITEM | SAMPLE | CLIENT SAMPLE ID | | BOTTLE TYPE | | MATRIX | | COLLECTION DATE | | # CONTAINERS | ANALYTICAL COMMENTS | | |
| 1 | 2203996-001A | SVE | | TEDLAR | | Air | | 3/16/2022 9:45:00 AM | | 1 | | | |

687030398

SPECIAL INSTRUCTIONS/COMMENTS

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

| | | | | | | | | | | | | | |
|-----------------|----|-------------------------|-----------|------|---------|-------------|--------|------|------------|------|-------|---|--|
| Relinquished By | SA | Date | 3/16/2022 | Time | 8:57 AM | Received By | M. Ray | Date | 03/16/2023 | Time | 10:30 | REPORT TRANSMITTAL DESIRED <input type="checkbox"/> HARD COPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE | |
| Relinquished By | | Date | | Time | | Received By | | Date | | Time | | FOR LAB USE ONLY | |
| Temp of samples | | Attempt to Cool ° _____ | | | | | | | | | | | |
| Comments | | | | | | | | | | | | | |



Hall Environmental Analysis Laboratory
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: 2203996

RcptNo: 1

Received By: Cheyenne Cason

3/18/2022 8:05:00 AM

Completed By: Sean Livingston

3/18/2022 8:43:55 AM

Reviewed By: *[Signature]* 3-18-22

[Signature]

[Signature]

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: *gn 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 | | | | |

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 134653

CONDITIONS

| | |
|---|----------------|
| Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301 | OGRID: |
| | 329736 |
| | Action Number: |
| | 134653 |
| Action Type: | |
| [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) | |

CONDITIONS

| Created By | Condition | Condition Date |
|------------------|-----------|----------------|
| michael.buchanan | None | 10/16/2023 |