SENT BY ELECTRONIC MAIL AND CERTIFIED MAIL
RETURN RECEIPT REQUESTED

May 6, 2026

Shane Drake
Sr. Director of Site Operations
Southwest Cheese Company, LLC
1141 Curry Road 4
Clovis, NM 88101
Sent by electronic mail to: shdrake@southwestcheese.com

Notice of Violation for Southwest Cheese Company, LLC, EPCEB Air Case No. SWC-19971-2201

Dear Shane Drake,

The New Mexico Environment Department ("NMED" or "Department") has identified Southwest Cheese Company, LLC ("SWC") as having violated state and federal regulations for air quality. This Notice of Violation ("NOV") is regarding the Clovis Plant Facility ("Facility"; AI # 19971; AIRS # 35-009-0014) owned by SWC, located at 1141 Curry Road 4, Clovis, New Mexico 88101 in Curry County (Lat/Long: 34.314861, -103.221528).

Pursuant to the NMED Delegation Order dated June 23, 2025, the Cabinet Secretary ("Secretary") has delegated to the Environmental Protection Compliance and Enforcement Bureau ("EPCEB") Chief the authority to seek administrative enforcement for alleged violations of the United States Clean Air Act ("CAA"), the New Mexico Air Quality Control Act ("AQCA"), federal and state regulations, and the air quality permits issued thereunder. EPCEB is the Bureau within NMED responsible for compliance with and enforcement of air quality regulations.

This NOV is issued pursuant to NMSA 1978, Section 74-2-5.1(A), which states that NMED's "investigations shall be reduced to writing if any enforcement action is contemplated, and a copy shall be furnished to the owner or occupants of the premises before the action is filed."

Alleged Violations

On multiple dates between June and August 2022, compliance report specialists from NMED began a records review for the Facility, including the March 2022 Annual Compliance Certification ("ACC") Report, September 2021 and March 2022 Semi-Annual ("SA") Reports, Excess Emission reports ("EER"), daily pressure logs, engine hour operating records, fuel gas sampling records, biogas analyses, and boiler fuel records. NMED requested additional information on September 28, 2022. The investigation found evidence of the following violations.

1. **Exceedance of H2S Emission Limits,** in violation of Title V Permit #P280-M2 ("Permit") Condition A106. A compliance inspector discovered through a review of the March 2022 ACC and the 2022 SA reports that the flare unit FLR1 lacked a continuous pilot light, resulting in the venting of uncombusted biogas containing H2S. While the Facility attempted to report this via the ACC, the inspector informed them during an August 16, 2022, call that an EER was required. The Facility filed an initial EER on August 24, 2022, but the inspector discovered calculation errors which resulted in over-reporting emissions. A revised EER was submitted on September 14, 2022, confirmed that between April 1, 2020, and September 14, 2022, the Facility released 2,216 pounds ("lbs") of excess H2S emissions.

2. **Failure to Report Excess Emissions,** in violation of 20.2.7.110.A NMAC and Permit Condition B110.D. SWC experienced an excess emission event related to an unlit flare (detail in Violation 1). Instead of reporting this event using the required AQBCR portal system, the Facility initially attempted to notify the Department by adding an attachment to their ACC report submitted on April 29, 2022. On August 16, 2022, the compliance inspector informed the Facility that excess emission events must be reported through the AQBCR portal. Following the inspector's instructions, the Facility properly filed an initial/final EER for the event on the AQBCR portal on August 24, 2022.

3. **Failure to Monitor Biogas Upset Events,** in violation of Permit Condition A107.B. As part of the review process in August 2022, a compliance inspector identified that the Facility failed to monitor biogas upset events. The Facility acknowledged in the ACC and SA reports submitted April 29, 2022, and May 13, 2022, that for events where the pilot light was out and biogas was released to the atmosphere, the Facility did not complete the required monitoring.

4. **Failure to Demonstrate Compliance with Natural Gas Fuel Sulfur Limits,** in violation of Permit Condition A110.A. During the review process, a compliance inspector noted in the ACC report covering April 1, 2021, through March 31, 2022, that the Facility failed to demonstrate compliance with the permitted natural gas total sulfur content of 0.25 grains or less per 100 dry standard cubic feet ("scf"). The tariff sheet provided by the supplier showed that the sulfur content could potentially be as high as 0.75 grains per 100 dry standard cubic feet, exceeding the permitted limit. A fuel analysis was not provided until October 3, 2022. The analysis reported a total sulfur content of 0.19 grains sulfur per 100 scf gas, below the Permit limit. However, the fuel analysis was not provided until six (6) months after the covered time period and is therefore not representative.

5. **Failure to Demonstrate Compliance with Biogas Fuel Sulfur Limits,** in violation of Permit Condition **A110.B**, Recordkeeping. Per the Permit condition, the biogas analysis shall not be older than one year. During the review process for the ACC and SA Reports, a compliance inspector found that the Facility failed to conduct the annual biogas analysis for Units BLR1 and FLR1 for the year 2021. The SA report covering October 1, 2021, through March 31, 2022, states that a third-party company attempted to complete the sampling in November 2021 but lacked the appropriate equipment. Resampling was performed on December 14, 2021, but the results were rejected, and it was not until February 2022, that the biogas analysis was completed, showing the levels of biogas fuel exceeded the 1,200 ppm limit. (See violation #6) The most recent biogas analysis prior to that was performed in November 2020.

6. **Exceedance of Biogas H2S Limit of 1,200 ppm,** in violation of Permit Condition A110.B, Requirements (1)(2). During the review process of the Facility's March 2022 ACC and SA reports revealed that the Facility reported a February 2022 biogas analysis indicating the H2S content of the biogas was above the permitted 1,200 ppm threshold for Units BLR1 and FLR1. The February 2022 biogas analysis confirms an exceedance for the gas routed to the flare, with the sample labeled "SWC-Flare-TRS-Run1" recording an H2S concentration of 1,383 ppm.

7. **Failure to Conduct Opacity Observations,** in violation of Permit Condition A111.C. During the review process for the ACC report covering April 1, 2021, through March 31, 2022, a compliance inspector identified that the Facility failed to conduct annual Method 9 opacity tests for Units SDG1, SDG2, and FP01.

8. **Failure to Continuously Monitor Flare Pilot, Unit FLR1,** in violation of Permit Condition A801.B. During the review process, for the ACC report covering April 1, 2021, through March 31, 2022, a compliance inspector noticed that the flare Unit FLR1 was not equipped with a functional monitoring alarm system for the full reporting period. While installed, the alarm did not communicate status or alert operators to pilot outages until November 23, 2021, causing excess emissions (see Violation #1)

9. **Failure to Record Daily Pressure Drop for Units DBH1, DBH2, CYC1, and CYC2,** in violation of Permit Condition A802.A. On April 5, 2023, a review of the requested records revealed 52 days on which one or more required daily pressure drop readings for baghouses DBH1 and DBH2, and cyclones CYC1 and CYC2 were not recorded.

10. **Failure to Record Daily Pressure Drop for Units PRBH1 and SSHBH1,** in violation of Permit Condition A802.B. On April 5, 2023, a review of the requested records revealed 40 days when there was no record of the daily pressure drop for Unit SSHBH1, and for 32 of those days there was also no record of the daily pressure drop for Unit PRBH1.

11. **Failure to Sample Flue Gas for Unit DRY1,** in violation of Permit Condition A802.E and B111.D(3). On October 3, 2022, the facility confirmed in their ACC reports covering April 1, 2020, through March 31, 2022, that no flue gas samples had been taken for Unit DRY1 over the last two years because no sample port was installed to conduct the measurement until May 2022.

12. **Exceeded the Permitted Combined Boiler Hourly Fuel Consumption Limit of 103,980 scf/hr on 70 Occasions for Units BLR1, BLR2, BLR3, and BLR5,** in violation of Permit Condition A802.G, Requirement (2). On April 5, 2023, a review of the requested records confirmed that the combined boiler hourly fuel consumption exceeded the permitted limit of 103,980 scf/hr on 70 occasions during the compliance period from April 1, 2021, through March 31, 2022, with actual amounts ranging from 103,991.40 scf/hr to 121,793.40 scf/hr.

13. **Failure to Calibrate Fuel Flow Meters,** in violation of Permit Condition A802.G, Monitoring (2). During the August 2022 records review, a compliance inspector noted that in the March 2022 ACC Report

the Facility acknowledged that calibration of the fuel flow meters for the boilers (Units BLR1, BLR2, BLR3, BLR5) was not completed.

14. **Failure to Operate No More than Two Boilers Simultaneously,** in violation of Permit Condition A802.G, Requirement (1). On April 5, 2023, a review of the records requested on September 28, by NMED confirmed multiple instances where the Facility operated at least three boilers simultaneously, contrary to the stipulated requirements that no more than two boilers be used at a time.

Please note that the Facility will appear on NMED's Enforcement Watch as a result of this NOV (see: https://www.env.nm.gov/enforcement-watch/). Further, NMED may issue a press release to local media highlighting your Facility as appearing on this webpage. Your Facility will remain on the Enforcement Watch website as an active matter until this matter is fully resolved, including the payment of the assessed civil penalty.

You may obtain a copy of the Air Quality Bureau's Civil Penalty Policy located on the Compliance and Enforcement website at: https://www.env.nm.gov/air-quality/compliance-and-enforcement/.

Requested Information

In the response to this NOV please provide this information for each violation:

1. A description of the cause of the violation;
2. Documentation of the steps taken to correct the violation to date; and
3. Documentation of steps taken to prevent the recurrence of the violation.

Violation-specific information to provide to NMED:

1. For violation 8, provide updated maintenance and repair logs for the flare pilot monitoring alarm system, including evidence that this system is now fully functional and successfully alerting operators when the flare pilot goes out, to meet Condition A801.B.
2. For violation 6, identify which specific sample names on the lab report (see Attachment B & C) correspond to the permitted units, to meet condition A110.B.

With the documentation, please include specific, measurable, and time-bound changes made or to be made addressing any problems causing the violations. Attachment A has been included at the end of the NOV and can be used as a checklist for organizing the response.

Use these instructions to submit the response:

1. All correspondence pertaining to this NOV must be submitted under cover of a properly completed Reporting Submittal Form, emailed to the Enforcement Specialist (contact information below). A copy of the form can be found online at: https://www.env.nm.gov/air-quality/compliance-and-enforcement/
2. Submit requested information no later than thirty (30) days after the date of this NOV.

3. Any documents claimed as Confidential Business Information (CBI) pursuant to 20.2.1.115 NMAC must be submitted in separate electronic files from non-CBI documents and identified as CBI.
4. If files cannot be submitted by electronic mail, contact the Enforcement Specialist to request a link to a file transfer platform, or submit records on a thumb drive mailed to the Air Quality Bureau, 525 Camino de los Marquez, Suite 1, Santa Fe, NM 87505 to the attention of Alejandra Avila.
5. Please include any facts, information, or documentation to refute the alleged violations, with the requested information.

After receiving the response to this NOV, NMED may send a settlement offer or compliance order outlining the penalties and corrective actions associated with each of the violations. As NMED's review of the alleged violations is ongoing, NMED reserves the right to assert additional violations at the Facility if new information becomes available.

If you have questions or believe any statement in this notice is erroneous, please contact Alejandra Avila at Alejandra.avila@env.nm.gov or Enforcement Manager Kerra Roudebush at kerra.roudebush@env.nm.gov. If you are represented by counsel, please contact Anita Tellez, Assistant General Counsel, at (505) 470-6225 or anita.tellez@env.nm.gov.

Thank you for your prompt attention to this matter.

Sincerely,

Signed by:
Bret Anderson
58AA1E562FA4422...

Bret Anderson, Bureau Chief
Environmental Protection Compliance and Enforcement Bureau
New Mexico Environment Department

cc: Anita Tellez, Assistant General Counsel, NMED
Kerra Roudebush, Enforcement Manager, EPCEB
Alejandra Avila, Enforcement Specialist, EPCEB

Attachment A

This form must be completed and signed by the facility's Responsible Official (Title V) or other designee and returned no later than thirty (30) days after the date of this Notice of Violation. Documentation for additional information (in addition to this form) must be submitted electronically to Enforcement Specialist Alejandra Avila at Alejandra.avila@env.nm.gov or Enforcement Manager Kerra Roudebush at kerra.roudebush@env.nm.gov.

All submittals must be submitted using the Reporting Submittal Form. The Reporting Submittal Form and instructions can be located at: https://www.env.nm.gov/air-quality/compliance-and-enforcement/#.

I hereby verify that Southwest Cheese Company, LLC has initiated the required additional information response outlined in this Notice of Violation. The following information has been submitted or will be submitted by the dates indicated below for each violation. All required documentation will be submitted electronically no later than thirty (30) days after the date of this Notice of Violation.

Date NOV received: _____

Alleged Violation 1
_____ A description of the cause of the violation
_____ Documentation of the steps taken to correct the violation to date
_____ Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)

Alleged Violation 2
_____ A description of the cause of the violation
_____ Documentation of the steps taken to correct the violation to date
_____ Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)

Alleged Violation 3
_____ A description of the cause of the violation
_____ Documentation of the steps taken to correct the violation to date
_____ Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)

Alleged Violation 4
_____ A description of the cause of the violation
_____ Documentation of the steps taken to correct the violation to date
_____ Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)

Alleged Violation 5
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*
_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*

Alleged Violation 6
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*
_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*
_____*Provide which specific sample names on the lab report (see Attachment B & C) correspond to the permitted units FLR1 and BLR1, to meet condition A110.B.*

Alleged Violation 7
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*
_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*

Alleged Violation 8
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*
_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*
_____*Provide maintenance and repair logs for the flare pilot monitoring alarm system, including evidence that this system is now fully functional and successfully alerting operators when the flare goes out per Condition A801.B.*

Alleged Violation 9
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*
_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*

Alleged Violation 10
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*
_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*

Alleged Violation 11
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*

_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*

Alleged Violation 12
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*
_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*

Alleged Violation 13
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*
_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*

Alleged Violation 14
_____ *A description of the cause of the violation*
_____ *Documentation of the steps taken to correct the violation to date*
_____ *Documentation of steps taken (or to be taken) to prevent recurrence of this violation (include date if not yet completed)*

_____ _____
Signature **Date**

Printed Name:

Title:

Tab E – Biogas Analysis

Atmospheric Analysis & Consulting, Inc.

CLIENT : TRC Environmental Corporation
PROJECT NAME : Southwest Cheese 2022 Fuel Analysis
PROJECT NO. : 466098.0000.0000
AAC PROJECT NO. : 220360
REPORT DATE : 02/28/2022

On February 17, 2022, Atmospheric Analysis & Consulting, Inc. received nine (9) 3.2-Liter Silonite Canisters for BTU analysis by ASTM D-3588/5504 and TNMOC analysis by EPA 25C. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab No.	Return Pressure (mmHg)
SWC-BiogasBlowerRoom-TRS-Run1-001264	220360-28059	441.8
SWC-BiogasBlowerRoom-TRS-Run2-001170	220360-28060	564.1
SWC-BiogasBlowerRoom-TRS-Run3-001347	220360-28061	571.4
SWC-Flare-TRS-Run1-001218	220360-28062	526.2
SWC-Flare-TRS-Run2-001193	220360-28063	439.4
SWC-Flare-TRS-Run3-001194	220360-28064	398.2
SWC-BiogasBoilerRoom-TRS-Run1-000970	220360-28065	451.8
SWC-BiogasBoilerRoom-TRS-Run2-001349	220360-28066	383.8
SWC-BiogasBoilerRoom-TRS-Run3-001199	220360-28067	360.2

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Ph.D.
Technical Director

This report consists of 28 pages.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : TRC Environmental Corporation
PROJECT NO. : 220360

SAMPLING DATE : 02/11/2022
ANALYSIS DATE : 02/22/-03/01/2022

	Client ID:	SWC-BiogasBlowerRoom-TRS-Run1-001264			
	AAC ID:	220360-28059			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 3.47	3.47	< 0.003	0.003
	O_2	0.711	0.347	0.899	0.004
	N_2	3.66	0.347	4.05	0.003
	CO	< 0.347	0.347	< 0.003	0.003
	CO_2	31.0	0.347	53.9	0.005
	CH_4	64.5	0.00017	40.9	0.010
	He	NM	NM	NM	NM
	Ar	NM	NM	NM	NM
HYDROCARBONS	C_2 (as Ethane)	< 0.00087	0.00087	< 0.0009	0.0009
	C_3 (as Propane)	< 0.00017	0.00017	< 0.0003	0.0003
	C_4 (as Butane)	< 0.00017	0.00017	< 0.0004	0.0004
	C_5 (as Pentane)	< 0.00017	0.00017	< 0.0004	0.0004
	C_6 (as Hexane)	< 0.00017	0.00017	< 0.0005	0.0005
	C_{6+} (as Hexane)	< 0.00017	0.00017	< 0.0005	0.0005
TRS	Total Reduced Sulfur	0.186	0.0000035	0.251	0.000004
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	9795
Carbon (C)	45.3	*LHV Btu/lb*	8820
Hydrogen (H)	10.3	*HHV Btu/dscf*	653
Oxygen (O)	40.1	*LHV Btu/dscf*	588
Nitrogen (N)	4.05	*F-Factor*	9099
Helium (He)	0.00	*Relative Density*	0.873
Argon (Ar)	0.00	*C2-C6+ Weight %*	0.0000
Sulfur (S)	0.236	*MW lb/lb-mole*	25.3
Motor Octane Number	97.5	*Methane Number*	39.2
		Wobbe Number	698

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : **TRC Environmental Corporation**
PROJECT NO. : **220360**
MATRIX : **AIR**
UNITS : **ppmV**

SAMPLING DATE : **02/11/2022**
ANALYSIS DATE : **02/18/2022**

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	SWC-BiogasBlowerRoom-TRS Run1-001264
AAC ID	220360-28059
Canister Dil. Fac.	3.5
Analyte	Result
Hydrogen Sulfide	1907
COS / SO2	< 0.174
Methyl Mercaptan	< 0.174
Ethyl Mercaptan	< 0.174
Dimethyl Sulfide	< 0.174
Carbon Disulfide	< 0.174
Isopropyl Mercaptan	< 0.174
tert-Butyl Mercaptan	< 0.174
n-Propyl Mercaptan	< 0.174
Methylethylsulfide	< 0.174
sec-Butyl Mercaptan / Thiophene	< 0.174
iso-Butyl Mercaptan	< 0.174
Diethyl Sulfide	< 0.174
n-Butyl Mercaptan	< 0.174
Dimethyl Disulfide	< 0.174
2-Methylthiophene	< 0.174
3-Methylthiophene	< 0.174
Tetrahydrothiophene	< 0.174
Bromothiophene	< 0.174
Thiophenol	< 0.174
Diethyl Disulfide	< 0.174
Total Unidentified Sulfur	< 0.174
Total Reduced Sulfurs	1907

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : TRC Environmental Corporation
PROJECT NO. : 220360

SAMPLING DATE : 02/11/2022
ANALYSIS DATE : 02/22/-03/01/2022

	Client ID:	SWC-BiogasBlowerRoom-TRS-Run2-001170			
	AAC ID:	220360-28060			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 2.70	2.70	< 0.002	0.002
	O_2	2.36	0.270	2.95	0.003
	N_2	9.67	0.270	10.6	0.003
	CO	< 0.270	0.270	< 0.003	0.003
	CO_2	28.4	0.270	48.9	0.004
	CH_4	59.3	0.00013	37.2	0.008
	He	NM	NM	NM	NM
	Ar	NM	NM	NM	NM
HYDROCARBONS	C_2 (as Ethane)	< 0.00067	0.00067	< 0.0007	0.0007
	C_3 (as Propane)	< 0.00013	0.00013	< 0.0002	0.0002
	C_4 (as Butane)	< 0.00013	0.00013	< 0.0003	0.0003
	C_5 (as Pentane)	< 0.00013	0.00013	< 0.0003	0.0003
	C_6 (as Hexane)	0.0008	0.00013	0.0025	0.0004
	C_{6+} (as Hexane)	< 0.00013	0.00013	< 0.0004	0.0004
TRS	Total Reduced Sulfur	0.193	0.0000027	0.257	0.000003
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	8916
Carbon (C)	41.2	*LHV Btu/lb*	8028
Hydrogen (H)	9.37	*HHV Btu/dscf*	601
Oxygen (O)	38.6	*LHV Btu/dscf*	541
Nitrogen (N)	10.6	*F-Factor*	9097
Helium (He)	0.00	*Relative Density*	0.883
Argon (Ar)	0.00	*C2-C6+ Weight %*	0.00255
Sulfur (S)	0.242	*MW lb/lb-mole*	25.6
Motor Octane Number	97.5	*Methane Number*	39.2
		Wobbe Number	639

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : **TRC Environmental Corporation**
PROJECT NO. : **220360**
MATRIX : **AIR**
UNITS : **ppmV**

SAMPLING DATE : **02/11/2022**
ANALYSIS DATE : **02/18/2022**

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	**SWC-BiogasBlowerRoom-TRS Run2-001170**
AAC ID	**220360-28060**
Canister Dil. Fac.	**2.7**
Analyte	**Result**
Hydrogen Sulfide	**1950**
COS / SO2	< 0.135
Methyl Mercaptan	**0.186**
Ethyl Mercaptan	< 0.135
Dimethyl Sulfide	< 0.135
Carbon Disulfide	< 0.135
Isopropyl Mercaptan	< 0.135
tert-Butyl Mercaptan	< 0.135
n-Propyl Mercaptan	< 0.135
Methylethylsulfide	< 0.135
sec-Butyl Mercaptan / Thiophene	< 0.135
iso-Butyl Mercaptan	< 0.135
Diethyl Sulfide	< 0.135
n-Butyl Mercaptan	< 0.135
Dimethyl Disulfide	< 0.135
2-Methylthiophene	< 0.135
3-Methylthiophene	< 0.135
Tetrahydrothiophene	< 0.135
Bromothiophene	< 0.135
Thiophenol	< 0.135
Diethyl Disulfide	< 0.135
Total Unidentified Sulfur	< 0.135
Total Reduced Sulfurs	**1950**

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : TRC Environmental Corporation
PROJECT NO. : 220360

SAMPLING DATE : 02/11/2022
ANALYSIS DATE : 02/22/-03/01/2022

	Client ID:	SWC-BiogasBlowerRoom-TRS-Run3-001347			
	AAC ID:	220360-28061			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 2.67	2.67	< 0.002	0.002
	O_2	4.41	0.267	5.44	0.003
	N_2	17.0	0.267	18.4	0.003
	CO	< 0.267	0.267	< 0.003	0.003
	CO_2	25.4	0.267	43.2	0.004
	CH_4	53.0	0.00013	32.8	0.008
	He	NM	NM	NM	NM
	Ar	NM	NM	NM	NM
HYDROCARBONS	C_2 (as Ethane)	< 0.00067	0.00067	< 0.0007	0.0007
	C_3 (as Propane)	< 0.00013	0.00013	< 0.0002	0.0002
	C_4 (as Butane)	< 0.00013	0.00013	< 0.0003	0.0003
	C_5 (as Pentane)	< 0.00013	0.00013	< 0.0003	0.0003
	C_6 (as Hexane)	< 0.00013	0.00013	< 0.0004	0.0004
	C_{6+} (as Hexane)	< 0.00013	0.00013	< 0.0004	0.0004
TRS	Total Reduced Sulfur	0.119	0.0000027	0.157	0.000003
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	7857
Carbon (C)	36.4	*LHV Btu/lb*	7075
Hydrogen (H)	8.26	*HHV Btu/dscf*	537
Oxygen (O)	36.8	*LHV Btu/dscf*	483
Nitrogen (N)	18.4	*F-Factor*	9092
Helium (He)	0.00	*Relative Density*	0.895
Argon (Ar)	0.00	*C2-C6+ Weight %*	0.0000
Sulfur (S)	0.147	*MW lb/lb-mole*	25.9
Motor Octane Number	97.5	*Methane Number*	39.2
		Wobbe Number	567

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : **TRC Environmental Corporation**
PROJECT NO. : **220360**
MATRIX : **AIR**
UNITS : **ppmV**

SAMPLING DATE : **02/11/2022**
ANALYSIS DATE : **02/18/2022**

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	**SWC-BiogasBlowerRoom-TRS Run3-001347**
AAC ID	**220360-28061**
Canister Dil. Fac.	**2.7**
Analyte	**Result**
Hydrogen Sulfide	**1209**
COS / SO2	< 0.133
Methyl Mercaptan	**0.155**
Ethyl Mercaptan	< 0.133
Dimethyl Sulfide	< 0.133
Carbon Disulfide	< 0.133
Isopropyl Mercaptan	< 0.133
tert-Butyl Mercaptan	< 0.133
n-Propyl Mercaptan	< 0.133
Methylethylsulfide	< 0.133
sec-Butyl Mercaptan / Thiophene	< 0.133
iso-Butyl Mercaptan	< 0.133
Diethyl Sulfide	< 0.133
n-Butyl Mercaptan	< 0.133
Dimethyl Disulfide	< 0.133
2-Methylthiophene	< 0.133
3-Methylthiophene	< 0.133
Tetrahydrothiophene	< 0.133
Bromothiophene	< 0.133
Thiophenol	< 0.133
Diethyl Disulfide	< 0.133
Total Unidentified Sulfur	< 0.133
Total Reduced Sulfurs	**1209**

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : TRC Environmental Corporation
PROJECT NO. : 220360

SAMPLING DATE : 02/11/2022
ANALYSIS DATE : 02/22-23/2022

	Client ID:	SWC-Flare-TRS-Run1-001218			
	AAC ID:	220360-28062			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 2.90	2.90	< 0.002	0.002
	O_2	0.76	0.290	0.97	0.003
	N_2	3.73	0.290	4.14	0.003
	CO	< 0.290	0.290	< 0.003	0.003
	CO_2	30.8	0.290	53.6	0.005
	CH_4	64.6	0.00015	41.1	0.008
	He	NM	NM	NM	NM
	Ar	NM	NM	NM	NM
HYDROCARBONS	C_2 (as Ethane)	< 0.00073	0.00073	< 0.0008	0.0008
	C_3 (as Propane)	< 0.00015	0.00015	< 0.0002	0.0002
	C_4 (as Butane)	< 0.00015	0.00015	< 0.0003	0.0003
	C_5 (as Pentane)	< 0.00015	0.00015	< 0.0004	0.0004
	C_6 (as Hexane)	< 0.00015	0.00015	< 0.0004	0.0004
	C_{6+} (as Hexane)	< 0.00015	0.00015	< 0.0004	0.0004
TRS	Total Reduced Sulfur	0.136	0.0000029	0.184	0.000004
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	9823
Carbon (C)	45.4	*LHV Btu/lb*	8845
Hydrogen (H)	10.3	*HHV Btu/dscf*	653
Oxygen (O)	40.0	*LHV Btu/dscf*	588
Nitrogen (N)	4.14	*F-Factor*	9093
Helium (He)	0.00	*Relative Density*	0.872
Argon (Ar)	0.00	*C2-C6+ Weight %*	0.0000
Sulfur (S)	0.173	*MW lb/lb-mole*	25.2
Motor Octane Number	97.5	*Methane Number*	39.3
		Wobbe Number	700

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : **TRC Environmental Corporation**
PROJECT NO. : **220360**
MATRIX : **AIR**
UNITS : **ppmV**

SAMPLING DATE : **02/11/2022**
ANALYSIS DATE : **02/18/2022**

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	**SWC-Flare-TRS-Run1-001218**
AAC ID	**220360-28062**
Canister Dil. Fac.	**2.9**
Analyte	**Result**
Hydrogen Sulfide	**1383**
COS / SO2	< 0.145
Methyl Mercaptan	**0.383**
Ethyl Mercaptan	< 0.145
Dimethyl Sulfide	< 0.145
Carbon Disulfide	< 0.145
Isopropyl Mercaptan	< 0.145
tert-Butyl Mercaptan	< 0.145
n-Propyl Mercaptan	< 0.145
Methylethylsulfide	< 0.145
sec-Butyl Mercaptan / Thiophene	< 0.145
iso-Butyl Mercaptan	< 0.145
Diethyl Sulfide	< 0.145
n-Butyl Mercaptan	< 0.145
Dimethyl Disulfide	< 0.145
2-Methylthiophene	< 0.145
3-Methylthiophene	< 0.145
Tetrahydrothiophene	< 0.145
Bromothiophene	< 0.145
Thiophenol	< 0.145
Diethyl Disulfide	< 0.145
Total Unidentified Sulfur	< 0.145
Total Reduced Sulfurs	**1383**

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : TRC Environmental Corporation
PROJECT NO. : 220360

SAMPLING DATE : 02/11/2022
ANALYSIS DATE : 02/22-23/2022

	Client ID:	SWC-Flare-TRS-Run2-001193			
	AAC ID:	220360-28063			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 3.48	3.48	< 0.002	0.002
	O_2	2.52	0.348	3.16	0.004
	N_2	10.0	0.348	11.0	0.003
	CO	< 0.348	0.348	< 0.003	0.003
	CO_2	28.2	0.348	48.5	0.005
	CH_4	59.2	0.00017	37.2	0.010
	He	NM	NM	NM	NM
	Ar	NM	NM	NM	NM
HYDROCARBONS	C_2 (as Ethane)	< 0.00087	0.00087	< 0.0009	0.0009
	C_3 (as Propane)	< 0.00017	0.00017	< 0.0003	0.0003
	C_4 (as Butane)	< 0.00017	0.00017	< 0.0004	0.0004
	C_5 (as Pentane)	< 0.00017	0.00017	< 0.0004	0.0004
	C_6 (as Hexane)	< 0.00017	0.00017	< 0.0005	0.0005
	C_{6+} (as Hexane)	< 0.00017	0.00017	< 0.0005	0.0005
TRS	Total Reduced Sulfur	0.107	0.0000035	0.142	0.000004
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	8886
Carbon (C)	41.1	*LHV Btu/lb*	8001
Hydrogen (H)	9.35	*HHV Btu/dscf*	598
Oxygen (O)	38.5	*LHV Btu/dscf*	539
Nitrogen (N)	11.0	*F-Factor*	9089
Helium (He)	0.00	*Relative Density*	0.882
Argon (Ar)	0.00	*C2-C6+ Weight %*	0.0000
Sulfur (S)	0.134	*MW lb/lb-mole*	25.5
Motor Octane Number	97.5	*Methane Number*	39.3
		Wobbe Number	637

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : **TRC Environmental Corporation**
PROJECT NO. : **220360**
MATRIX : **AIR**
UNITS : **ppmV**

SAMPLING DATE : **02/11/2022**
ANALYSIS DATE : **02/18/2022**

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	**SWC-Flare-TRS-Run2-001193**
AAC ID	**220360-28063**
Canister Dil. Fac.	**3.5**
Analyte	**Result**
Hydrogen Sulfide	**1079**
COS / SO2	< 0.174
Methyl Mercaptan	**0.219**
Ethyl Mercaptan	< 0.174
Dimethyl Sulfide	< 0.174
Carbon Disulfide	< 0.174
Isopropyl Mercaptan	< 0.174
tert-Butyl Mercaptan	< 0.174
n-Propyl Mercaptan	< 0.174
Methylethylsulfide	< 0.174
sec-Butyl Mercaptan / Thiophene	< 0.174
iso-Butyl Mercaptan	< 0.174
Diethyl Sulfide	< 0.174
n-Butyl Mercaptan	< 0.174
Dimethyl Disulfide	< 0.174
2-Methylthiophene	< 0.174
3-Methylthiophene	< 0.174
Tetrahydrothiophene	< 0.174
Bromothiophene	< 0.174
Thiophenol	< 0.174
Diethyl Disulfide	< 0.174
Total Unidentified Sulfur	< 0.174
Total Reduced Sulfurs	**1080**

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : TRC Environmental Corporation
PROJECT NO. : 220360

SAMPLING DATE : 02/11/2022
ANALYSIS DATE : 02/22-23/2022

	Client ID:	SWC-Flare-TRS-Run3-001194			
	AAC ID:	220360-28064			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 3.83	3.83	< 0.003	0.003
	O_2	7.07	0.383	8.59	0.004
	N_2	26.4	0.383	28.1	0.004
	CO	< 0.383	0.383	< 0.004	0.004
	CO_2	21.5	0.383	35.8	0.006
	CH_4	45.0	0.00019	27.4	0.011
	He	NM	NM	NM	NM
	Ar	NM	NM	NM	NM
HYDROCARBONS	C_2 (as Ethane)	< 0.00096	0.00096	< 0.0010	0.0010
	C_3 (as Propane)	< 0.00019	0.00019	< 0.0003	0.0003
	C_4 (as Butane)	< 0.00019	0.00019	< 0.0004	0.0004
	C_5 (as Pentane)	< 0.00019	0.00019	< 0.0005	0.0005
	C_6 (as Hexane)	< 0.00019	0.00019	< 0.0006	0.0006
	C_{6+} (as Hexane)	< 0.00019	0.00019	< 0.0006	0.0006
TRS	Total Reduced Sulfur	0.0522	0.0000038	0.0675	0.000005
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	6551
Carbon (C)	30.3	*LHV Btu/lb*	5899
Hydrogen (H)	6.89	*HHV Btu/dscf*	455
Oxygen (O)	34.7	*LHV Btu/dscf*	410
Nitrogen (N)	28.1	*F-Factor*	9076
Helium (He)	0.00	*Relative Density*	0.910
Argon (Ar)	0.00	*C2-C6+ Weight %*	0.0000
Sulfur (S)	0.063	*MW lb/lb-mole*	26.3
Motor Octane Number	97.5	*Methane Number*	39.3
		Wobbe Number	477

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : **TRC Environmental Corporation**
PROJECT NO. : **220360**
MATRIX : **AIR**
UNITS : **ppmV**

SAMPLING DATE : **02/11/2022**
ANALYSIS DATE : **02/18/2022**

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	**SWC-Flare-TRS-Run3-001194**
AAC ID	**220360-28064**
Canister Dil. Fac.	**3.8**
Analyte	**Result**
Hydrogen Sulfide	**521**
COS / SO2	< 0.191
Methyl Mercaptan	< 0.191
Ethyl Mercaptan	< 0.191
Dimethyl Sulfide	< 0.191
Carbon Disulfide	< 0.191
Isopropyl Mercaptan	< 0.191
tert-Butyl Mercaptan	< 0.191
n-Propyl Mercaptan	< 0.191
Methylethylsulfide	< 0.191
sec-Butyl Mercaptan / Thiophene	< 0.191
iso-Butyl Mercaptan	< 0.191
Diethyl Sulfide	< 0.191
n-Butyl Mercaptan	< 0.191
Dimethyl Disulfide	< 0.191
2-Methylthiophene	< 0.191
3-Methylthiophene	< 0.191
Tetrahydrothiophene	< 0.191
Bromothiophene	< 0.191
Thiophenol	< 0.191
Diethyl Disulfide	< 0.191
Total Unidentified Sulfur	< 0.191
Total Reduced Sulfurs	**521**

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : TRC Environmental Corporation
PROJECT NO. : 220360

SAMPLING DATE : 02/11/2022
ANALYSIS DATE : 02/22-23/2022

	Client ID:	SWC-BiogasBoilerRoom-TRS-Run1-000970			
	AAC ID:	220360-28065			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 3.37	3.37	< 0.003	0.003
	O_2	11.3	0.337	15.3	0.004
	N_2	43.2	0.337	51.0	0.004
	CO	< 0.337	0.337	< 0.004	0.004
	CO_2	0.36	0.337	0.66	0.006
	CH_4	41.5	0.00017	28.1	0.011
	He	NM	NM	NM	NM
	Ar	NM	NM	NM	NM
HYDROCARBONS	C_2 (as Ethane)	3.33	0.00084	4.22	0.0010
	C_3 (as Propane)	0.199	0.00017	0.370	0.0003
	C_4 (as Butane)	0.0622	0.00017	0.153	0.0004
	C_5 (as Pentane)	0.0252	0.00017	0.0767	0.0005
	C_6 (as Hexane)	0.0103	0.00017	0.0376	0.0006
	C_{6+} (as Hexane)	0.0059	0.00017	0.0215	0.0006
TRS	Total Reduced Sulfur	< 0.0000034	0.0000034	< 0.000005	0.000005
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	7802
Carbon (C)	25.1	*LHV Btu/lb*	7037
Hydrogen (H)	8.03	*HHV Btu/dscf*	487
Oxygen (O)	15.8	*LHV Btu/dscf*	440
Nitrogen (N)	51.0	*F-Factor*	8665
Helium (He)	0.00	*Relative Density*	0.818
Argon (Ar)	0.00	*C2-C6+ Weight %*	4.88
Sulfur (S)	0.00	*MW lb/lb-mole*	23.7
Motor Octane Number	125.5	*Methane Number*	84.7
		Wobbe Number	539

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : **TRC Environmental Corporation**
PROJECT NO. : **220360**
MATRIX : **AIR**
UNITS : **ppmV**

SAMPLING DATE : **02/11/2022**
ANALYSIS DATE : **02/18/2022**

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	SWC-BiogasBoilerRoom-TRS-Run1-000970
AAC ID	220360-28065
Canister Dil. Fac.	3.4
Analyte	Result
Hydrogen Sulfide	< 0.169
COS / SO2	< 0.169
Methyl Mercaptan	< 0.169
Ethyl Mercaptan	< 0.169
Dimethyl Sulfide	< 0.169
Carbon Disulfide	< 0.169
Isopropyl Mercaptan	< 0.169
tert-Butyl Mercaptan	< 0.169
n-Propyl Mercaptan	< 0.169
Methylethylsulfide	< 0.169
sec-Butyl Mercaptan / Thiophene	< 0.169
iso-Butyl Mercaptan	< 0.169
Diethyl Sulfide	< 0.169
n-Butyl Mercaptan	< 0.169
Dimethyl Disulfide	< 0.169
2-Methylthiophene	< 0.169
3-Methylthiophene	< 0.169
Tetrahydrothiophene	< 0.169
Bromothiophene	< 0.169
Thiophenol	< 0.169
Diethyl Disulfide	< 0.169
Total Unidentified Sulfur	< 0.169
Total Reduced Sulfurs	< 0.169

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : TRC Environmental Corporation
PROJECT NO. : 220360

SAMPLING DATE : 02/11/2022
ANALYSIS DATE : 02/22-24/2022

	Client ID:	SWC-BiogasBoilerRoom-TRS-Run2-001349			
	AAC ID:	220360-28066			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 3.96	3.96	< 0.003	0.003
	O_2	13.8	0.396	17.7	0.005
	N_2	51.9	0.396	58.0	0.004
	CO	< 0.396	0.396	< 0.004	0.004
	CO_2	0.402	0.396	0.705	0.007
	CH_4	30.7	0.00020	19.6	0.012
	He	NM	NM	NM	NM
	Ar	NM	NM	NM	NM
HYDROCARBONS	C_2 (as Ethane)	2.90	0.00099	3.48	0.0011
	C_3 (as Propane)	0.163	0.00020	0.286	0.0003
	C_4 (as Butane)	0.0561	0.00020	0.130	0.0004
	C_5 (as Pentane)	0.0212	0.00020	0.0610	0.0005
	C_6 (as Hexane)	0.0079	0.00020	0.0273	0.0006
	C_{6+} (as Hexane)	0.0044	0.00020	0.0152	0.0006
TRS	Total Reduced Sulfur	0.0000423	0.0000040	0.0001	0.000005
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	5579
Carbon (C)	18.1	*LHV Btu/lb*	5033
Hydrogen (H)	5.73	*HHV Btu/dscf*	369
Oxygen (O)	18.2	*LHV Btu/dscf*	333
Nitrogen (N)	58.0	*F-Factor*	8656
Helium (He)	0.00	*Relative Density*	0.866
Argon (Ar)	0.00	*C2-C6+ Weight %*	4.00
Sulfur (S)	0.00	*MW lb/lb-mole*	25.1
Motor Octane Number	123	*Methane Number*	81.1
		Wobbe Number	396

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : **TRC Environmental Corporation**
PROJECT NO. : **220360**
MATRIX : **AIR**
UNITS : **ppmV**

SAMPLING DATE : **02/11/2022**
ANALYSIS DATE : **02/18/2022**

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	SWC-BiogasBoilerRoom-TRS-Run2-001349
AAC ID	**220360-28066**
Canister Dil. Fac.	**4.0**
Analyte	**Result**
Hydrogen Sulfide	**0.428**
COS / SO2	< 0.198
Methyl Mercaptan	< 0.198
Ethyl Mercaptan	< 0.198
Dimethyl Sulfide	< 0.198
Carbon Disulfide	< 0.198
Isopropyl Mercaptan	< 0.198
tert-Butyl Mercaptan	< 0.198
n-Propyl Mercaptan	< 0.198
Methylethylsulfide	< 0.198
sec-Butyl Mercaptan / Thiophene	< 0.198
iso-Butyl Mercaptan	< 0.198
Diethyl Sulfide	< 0.198
n-Butyl Mercaptan	< 0.198
Dimethyl Disulfide	< 0.198
2-Methylthiophene	< 0.198
3-Methylthiophene	< 0.198
Tetrahydrothiophene	< 0.198
Bromothiophene	< 0.198
Thiophenol	< 0.198
Diethyl Disulfide	< 0.198
Total Unidentified Sulfur	< 0.198
Total Reduced Sulfurs	**0.428**

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : TRC Environmental Corporation
PROJECT NO. : 220360

SAMPLING DATE : 02/11/2022
ANALYSIS DATE : 02/22-24/2022

	Client ID:	SWC-BiogasBoilerRoom-TRS-Run3-001199			
	AAC ID:	220360-28067			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 4.24	4.24	< 0.003	0.003
	O_2	5.86	0.424	7.70	0.005
	N_2	22.1	0.424	25.4	0.005
	CO	< 0.424	0.424	< 0.005	0.005
	CO_2	15.8	0.424	28.5	0.007
	CH_4	54.3	0.00021	35.7	0.013
	He	NM	NM	NM	NM
	Ar	NM	NM	NM	NM
HYDROCARBONS	C_2 (as Ethane)	1.77	0.00106	2.18	0.0012
	C_3 (as Propane)	0.106	0.00021	0.193	0.0004
	C_4 (as Butane)	0.0369	0.00021	0.0881	0.0005
	C_5 (as Pentane)	0.0130	0.00021	0.0386	0.0006
	C_6 (as Hexane)	0.0048	0.00021	0.0171	0.0007
	C_{6+} (as Hexane)	0.0027	0.00021	0.0096	0.0007
TRS	Total Reduced Sulfur	0.0544	0.0000042	0.0761	0.000005
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	9107
Carbon (C)	36.6	*LHV Btu/lb*	8206
Hydrogen (H)	9.49	*HHV Btu/dscf*	584
Oxygen (O)	28.4	*LHV Btu/dscf*	527
Nitrogen (N)	25.4	*F-Factor*	8895
Helium (He)	0.00	*Relative Density*	0.841
Argon (Ar)	0.00	*C2-C6+ Weight %*	2.53
Sulfur (S)	0.0716	*MW lb/lb-mole*	24.4
Motor Octane Number	102	*Methane Number*	46.1
		Wobbe Number	637

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : **TRC Environmental Corporation**
PROJECT NO. : **220360**
MATRIX : **AIR**
UNITS : **ppmV**

SAMPLING DATE : **02/11/2022**
ANALYSIS DATE : **02/18/2022**

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	**SWC-BiogasBoilerRoom-TRS-Run3-001199**
AAC ID	**220360-28067**
Canister Dil. Fac.	**4.2**
Analyte	**Result**
Hydrogen Sulfide	**586**
COS / SO2	< 0.212
Methyl Mercaptan	**0.335**
Ethyl Mercaptan	< 0.212
Dimethyl Sulfide	< 0.212
Carbon Disulfide	< 0.212
Isopropyl Mercaptan	< 0.212
tert-Butyl Mercaptan	< 0.212
n-Propyl Mercaptan	< 0.212
Methylethylsulfide	< 0.212
sec-Butyl Mercaptan / Thiophene	< 0.212
iso-Butyl Mercaptan	< 0.212
Diethyl Sulfide	< 0.212
n-Butyl Mercaptan	< 0.212
Dimethyl Disulfide	< 0.212
2-Methylthiophene	< 0.212
3-Methylthiophene	< 0.212
Tetrahydrothiophene	< 0.212
Bromothiophene	< 0.212
Thiophenol	< 0.212
Diethyl Disulfide	< 0.212
Total Unidentified Sulfur	**0.700**
Total Reduced Sulfurs	**587**

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

Client : TRC Environmental Corporation
Project No. : 220360
Matrix : AIR
Units : ppmC

Sampling Date : 02/11/2022
Receiving Date : 02/17/2022
Analysis Date : 02/22/2022
Report Date : 02/28/2022

EPA 25C

Reporting Limit: 3.0 ppmC		*Canister Dilution Factor*	*Analysis Dilution Factor*	TNMOC*	SRL (RL x DF's)
Client Sample ID	AAC ID				
SWC-BiogasBlowerRoom-TRS-Run1-001264	220360-28059	3.5	1.0	23.2	10.4
SWC-BiogasBlowerRoom-TRS-Run2-001170	220360-28060	2.7	1.0	18.2	8.09
SWC-BiogasBlowerRoom-TRS-Run3-001347	220360-28061	2.7	1.0	19.4	8.01
SWC-Flare-TRS-Run1-001218	220360-28062	2.9	1.0	<SRL	8.71
SWC-Flare-TRS-Run2-001193	220360-28063	3.5	1.0	<SRL	10.4
SWC-Flare-TRS-Run3-001194	220360-28064	3.8	1.0	<SRL	11.5

Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac x Canister Dil. Fac.

**Total Non-Methane Organic Carbon*

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc

Laboratory Analysis Report

Client : TRC Environmental Corporation
Project No. : 220360
Matrix : AIR
Units : ppmC

Sampling Date : 02/11/2022
Receiving Date : 02/17/2022
Analysis Date : 02/22/2022
Report Date : 02/28/2022

EPA 25C

Reporting Limit: 3.0 ppmC		*Canister Dilution Factor*	*Analysis Dilution Factor*	TNMOC*	SRL (RL x DF's)
Client Sample ID	AAC ID				
SWC-BiogasBoilerRoom-TRS-Run1-000970	22360-28065	3.4	5.0	11442	50.6
SWC-BiogasBoilerRoom-TRS-Run2-001349	22360-28066	4.0	5.0	9366	59.4
SWC-BiogasBoilerRoom-TRS-Run3-001199	22360-28067	4.2	5.0	6729	63.6

Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac x Canister Dil. Fac.

**Total Non-Methane Organic Carbon*

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
ASTM D-5504

Date Analyzed: 2/18/2022
Analyst: DL
Units: ppmV

Instrument ID: SCD-BTU
Calb. Date: 10/21/2021

Opening Calibration Verification Standard

0.520 ppbV H2S (SS1289)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	504	0.508	97.7	2.1
Duplicate	514	0.518	99.6	0.2
Triplicate	526	0.530	102.1	2.3

0.527 ppbV H2S (SS1289)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	547	0.507	96.2	0.9
Duplicate	562	0.520	98.7	1.7
Triplicate	548	0.507	96.3	0.8

0.522 ppbV H2S (SS1289)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	629	0.511	97.8	0.1
Duplicate	624	0.506	97.0	0.9
Triplicate	637	0.517	99.0	1.1

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID** 220362-28071

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.000	0.0
MeSH	<PQL	<PQL	0.000	0.0
DMS	<PQL	<PQL	0.000	0.0

Matrix Spike & Duplicate **Sample ID** 220362-28071 x2

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	0.260	0.268	0.267	103.1	102.7	0.4
MeSH	<PQL	0.264	0.261	0.258	99.1	97.9	1.2
DMS	<PQL	0.261	0.257	0.250	98.5	95.8	2.8

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	0.520	0.524	100.8
MeSH	0.527	0.526	99.8
DMS	0.522	0.524	100.4

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*
PQL = 50.0 ppbV
MDL = 1.1 ppbV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Analysis Date : 02/22/2022
Analyst : DL/ZD
Units : ppmv

Instrument ID: GCTCA#2-FID
Calibration Date: 2/15/2022

I - Opening Calibration Verification Standard - Method 25C

Analyte	xRF	DRF	%RPD*
Propane	315066	343900	8.8

II - TNMOC Response Factor - Method 25C

Analyte	xRF	CV RF	CV dp RF	CV tp RF	Average RF	% RPD***
Propane	315066	343900	332523	331723	336048	6.4

III - Method Blank - Method 25C

AAC ID	Analyte	Sample Result
MB	TNMOC	0.00

IV - Laboratory Control Spike & Duplicate - Method 25C

AAC ID	Analyte	Spike Added	LCS	LCSD	LCS % Rec **	LCSD % Rec **	% RPD***
LCS/LCSD	Propane	51.0	53.48	53.36	105.0	104.7	0.2

V - Closing Calibration Verification Standard - Method 25C

Analyte	xCF	dCF	%RPD*
Propane	315066	331322	5.0

xCF - Average Calibration Factor from Initial Calibration Curve
dCF - Daily Calibration Factor
* Must be <15%
** Must be 90-110 %
*** Must be <20%

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 02/22/2022
Analyst : ZD
Units : %

Instrument ID : GC-TCA #2
Calb Date : 01/17/2022
Reporting Limit : 0.1%

I - Opening Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
CCV	Spike Conc	9.4	10.8	21.4	10.3	10.2	10.2
	Result	10.4	10.4	20.4	10.1	10.2	10.1
	% Rec *	110.9	96.6	95.8	98.9	99.3	99.1

II - Method Blank - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	9.4	10.8	21.4	10.3	10.2	10.2
	LCS Result	10.0	10.3	20.3	10.1	10.1	10.1
	LCSD Result	10.4	10.4	20.3	10.1	10.1	10.0
	LCS % Rec *	106.4	95.8	95.2	98.1	99.0	98.7
	LCSD % Rec *	110.8	96.6	95.2	98.2	98.4	98.3
	% RPD ***	4.1	0.8	0.0	0.1	0.6	0.4

IV -Sample & Sample Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
220367-28085	Sample	0.0	1.7	6.5	20.2	0.0	9.7
	Sample Dup	0.0	1.7	6.4	20.1	0.0	9.6
	Mean	0.0	1.7	6.5	20.2	0.0	9.7
	% RPD ***	0.0	2.4	1.7	0.5	0.0	0.6

V - Matrix Spike & Duplicate- BTU/ASTM D-1945

AAC ID	Analyte	H_2	N_2	CH_4	CO	CO_2
220367-28085	Sample Conc	0.0	3.2	10.1	0.0	4.8
	Spike Conc	9.4	10.1	10.3	10.2	10.2
	MS Result	9.9	13.5	20.2	10.2	14.8
	MSD Result	10.2	13.5	20.2	10.0	14.7
	MS % Rec **	105.6	101.9	98.5	99.9	97.5
	MSD % Rec **	109.1	101.1	98.6	98.1	96.8
	% RPD ***	3.2	0.8	0.1	1.7	0.7

VI - Closing Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
CCV	Spike Conc	9.4	10.8	21.4	10.3	10.2	10.2
	Result	10.0	10.0	19.8	10.1	10.0	10.0
	% Rec *	106.3	93.2	92.9	98.6	97.7	98.4

** Must be 85-115%*

*** Must be 75-125%*

**** Must be < 25%*

ND = Not Detected

<RL = less than Reporting Limit

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 02/23/2022
Analyst : DL/MR
Units : ppmv

Instrument ID : FID #3
Calb Date : 02/01/22
Reporting Limit : 0.5 ppmv

I - Opening Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	105.3	106.5	104.9	105.4	106.3	108.4
	% Rec *	106.5	107.5	106.3	107.4	108.3	108.7

II - Method Blank - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	LCS Result	101.1	101.4	99.8	99.6	99.8	100.3
	LCSD Result	101.9	103.1	101.5	101.5	101.6	102.5
	LCS % Rec *	102.3	102.3	101.1	101.6	101.7	100.6
	LCSD % Rec *	103.1	104.0	102.9	103.4	103.6	102.8
	% RPD ***	0.8	1.6	1.7	1.8	1.8	2.2

IV - Sample & Sample Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
212341-26398	Sample	2.8	0.0	0.0	0.0	0.0	0.0
	Sample Dup	2.8	0.0	0.0	0.0	0.0	0.0
	Mean	2.8	0.0	0.0	0.0	0.0	0.0
	% RPD ***	1.2	0.0	0.0	0.0	0.0	0.0

V - Matrix Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
212341-26398	Sample Conc	1.4	0.0	0.0	0.0	0.0	0.0
	Spike Conc	49.4	49.6	49.4	49.0	49.1	49.9
	MS Result	49.5	48.8	47.8	48.3	50.6	55.7
	MSD Result	52.2	51.2	50.2	50.7	52.0	55.0
	MS % Rec **	97.4	98.5	96.9	98.5	103.1	111.8
	MSD % Rec **	102.8	103.3	101.8	103.4	105.9	110.4
	% RPD ***	5.4	4.7	4.9	4.8	2.7	1.3

VI - Closing Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	97.7	98.7	97.5	97.3	97.5	98.0
	% Rec *	98.8	99.6	98.8	99.2	99.3	98.3

** Must be 85-115%*

*** Must be 75-125%*

**** Must be < 25%*

ND = Not Detected

<RL = less than Reporting Limit

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 02/24/2022
Analyst : DL/MR
Units : ppmv

Instrument ID : FID #3
Calb Date : 02/01/22
Reporting Limit : 0.5 ppmv

I - Opening Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	104.6	105.0	102.8	102.4	101.9	100.8
	% Rec *	105.8	105.9	104.1	104.4	103.8	101.1

II - Method Blank - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	LCS Result	102.7	103.9	101.5	101.8	102.3	103.6
	LCSD Result	109.0	110.4	108.0	108.0	108.2	108.9
	LCS % Rec *	103.9	104.8	102.8	103.8	104.3	103.9
	LCSD % Rec *	110.3	111.4	109.5	110.1	110.2	109.1
	% RPD ***	5.9	6.0	6.2	5.9	5.6	4.9

IV - Sample & Sample Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
212341-26398	Sample	2.7	0.0	0.0	0.0	0.0	0.0
	Sample Dup	2.6	0.0	0.0	0.0	0.0	0.0
	Mean	2.7	0.0	0.0	0.0	0.0	0.0
	% RPD ***	1.8	0.0	0.0	0.0	0.0	0.0

V - Matrix Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
212341-26398	Sample Conc	1.3	0.0	0.0	0.0	0.0	0.0
	Spike Conc	49.4	49.6	49.4	49.0	49.1	49.9
	MS Result	50.9	49.8	48.3	47.8	48.2	48.6
	MSD Result	51.5	50.1	49.1	48.4	49.1	49.4
	MS % Rec **	100.4	100.5	97.9	97.5	98.1	97.5
	MSD % Rec **	101.5	101.2	99.6	98.7	100.1	99.1
	% RPD ***	1.1	0.7	1.7	1.2	2.0	1.6

VI - Closing Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	94.9	96.0	93.6	93.4	94.4	95.5
	% Rec *	96.0	96.8	94.8	95.2	96.2	95.8

** Must be 85-115%*

*** Must be 75-125%*

**** Must be < 25%*

ND = Not Detected

<RL = less than Reporting Limit

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 03/01/2022
Analyst : DL/MR
Units : ppmv

Instrument ID : FID #3
Calb Date : 02/01/22
Reporting Limit : 0.5 ppmv

I - Opening Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	108.4	109.6	107.5	107.9	108.4	109.9
	% Rec *	109.6	110.6	108.9	110.0	110.4	110.2

II - Method Blank - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	LCS Result	103.9	105.1	103.5	103.7	104.1	105.8
	LCSD Result	104.1	105.1	103.7	103.8	104.2	105.8
	LCS % Rec *	105.1	106.0	104.8	105.7	106.0	106.1
	LCSD % Rec *	105.3	106.0	105.1	105.8	106.1	106.1
	% RPD ***	0.2	0.0	0.2	0.1	0.1	0.0

IV - Sample & Sample Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
212341-26398	Sample	2.8	0.0	0.0	0.0	0.0	0.0
	Sample Dup	2.7	0.0	0.0	0.0	0.0	0.0
	Mean	2.8	0.0	0.0	0.0	0.0	0.0
	% RPD ***	4.4	0.0	0.0	0.0	0.0	0.0

V - Matrix Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
212341-26398	Sample Conc	1.4	0.0	0.0	0.0	0.0	0.0
	Spike Conc	49.4	49.6	49.4	49.0	49.1	49.9
	MS Result	50.7	48.9	48.5	48.0	48.5	49.1
	MSD Result	52.3	51.3	50.4	50.2	50.7	51.6
	MS % Rec **	99.8	98.8	98.2	97.9	98.7	98.4
	MSD % Rec **	103.1	103.4	102.1	102.3	103.4	103.5
	% RPD ***	3.3	4.6	3.8	4.4	4.6	5.0

VI - Closing Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	97.8	98.5	96.7	96.8	97.5	99.0
	% Rec *	98.9	99.4	98.0	98.7	99.3	99.3

** Must be 85-115%*

*** Must be 75-125%*

**** Must be < 25%*

ND = Not Detected

<RL = less than Reporting Limit

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

TRC

Attachment B

220360

Chain of Custody Record

Project Name: Southwest Cheese 2022 Fuel Analysis	TRC Contact: Zachary Mokrycki	T: 908-752-5541	
	Email: Zmokrycki@trccompanies.com		
Site Name: Southwest Cheese Clovis	Sampling System Prepared by: AAC		
Project No.: 466098.0000.0000	Samples Recovered by: Panteleimon Stathopulos		

Sub Lab ID	Sample ID Number	Sample Description* (Unit-Location-Method-Run-Container Number)	Date Sampled	Run Time (Optional)	**No. of Containers	ASTM D-5504	Method 25C	ASTM D-3588			Comments:
28059	001264	SWC-BiogasBlowerRoom-TRS-Run1-001264	2/11/2022	-	1	X	X	X			
28060	001170	SWC-BiogasBlowerRoom-TRS-Run2-001170	2/11/2022	-	1	X	X	X			
28061	001347	SWC-BiogasBlowerRoom-TRS-Run3-001347	2/11/2022	-	1	X	X	X			
28062	001218	SWC-Flare-TRS-Run1-001218	2/11/2022	-	1	X	X	X			
28063	001193	SWC-Flare-TRS-Run2-001193	2/11/2022	-	1	X	X	X			
28064	001194	SWC-Flare-TRS-Run3-001194	2/11/2022	-	1	X	X	X			
28065	000970	SWC-BiogasBoilerRoom-TRS-Run1-000970	2/11/2022	-	1	X	X	X			
28066	001349	SWC-BiogasBoilerRoom-TRS-Run2-001349	2/11/2022	-	1	X	X	X			
28067	001199	SWC-BiogasBoilerRoom-TRS-Run3-001199	2/11/2022	-	1	X	X	X			

General Instructions: This form documents all changes in custody. The name and dated signature for each person associated with the release or receipt of the listed samples must be recorded.

TAT: Standard	Need By Date:	Project Remarks:	Relinquished by: (Sign & Print)	Date/Time	Received by: (Sign & Print)	Date/Time
Shipped by: Caleb Bradley	Shipped On: 2/15/2022		Caleb Bradley Caleb Bradley	14:12 2/15/22	Hunton Dixon	2/17/22 1039
Ship To Attn: AACLAB						
Lab: Atmospheric Analysis & Consultin						
Address: 1534 Eastman Ave Suite A, Ventura, CA 93003						
Phone: (805) 650-1642						

Special Instructions:

SUBCONTRACTOR LABORATORY MUST CONTACT THE CITED TRC CONTACT TO ENSURE A PO IS IN PLACE.

TRC Environmental Corporation

400 Corporate Circle, Suite P
Golden, CO 80401
T: (303) 495-7655 F: (303) 495-7654

Fx - 9x 3.2L cans + 2x coated 25.3 FC's

PANTECHS LABORATORIES, INC.

Leaders in Petroleum Analytical Services
www.pantechs.com

Analytical Report

8/17/2022

Customer:	Southwest Cheese, LLC	**Order:**	489-3579
Location:	Clovis	**Received:**	8/12/2022
Description:	Bio and Fuel Gas sampling	**Primary Contact:**	Laura Rufin

REPORT DISTRIBUTION:

Laura Rufin

All data reported in this Analytical Report is in compliance with the test method(s) performed as of the date noted above. The validity and integrity of this report will remain intact as long as it is accompanied by this page and reproduced in full. Any datafile (e.g. txt, csv, etc.) produced which is associated with the results in this report shall be considered for convenience only and does not supersede this report as the official test results. We reserve the right to return to you any unused samples received if we consider so necessary (e.g. samples identified as hazardous waste).

We appreciate you choosing Pantechs Laboratories. If you have any questions concerning this report, please feel free to contact us at any time.

Attachment C

Pantechs Laboratories, Inc.
Order: 489-3579 Order Date: 8/12/2022
Order Description: Clovis, Bio and Fuel Gas sampling

Sample List

Fluid	Operator	Location	Site	Sample Point	Date	Time
Gas	Southwest Cheese, LLC	Clovis	Downstream of Polisher	Compressor Discharge Spot #7	8/12/2022	8:31 AM
Gas	Southwest Cheese, LLC	Clovis	Purchase Fuel Gas	Biofuel to Boiler Spot #8	8/12/2022	8:50 AM
Gas	Southwest Cheese, LLC	Clovis	Purchase Fuel Gas	Purchase Natural Gas Into Boiler Spot #9	8/12/2022	8:49 AM
Gas	Southwest Cheese, LLC	Clovis	Upstream of Polisher	Upstream of Scrubber/Polisher #3 Spot #3	8/12/2022	8:13 AM

No Sample List

Operator	Location	Site	Sample Point	Comment

Attachment C

Pantechs Laboratories, Inc. - Order: 489-3579 - Order Date: 8/12/2022
Order Description: Clovis, Bio and Fuel Gas sampling

SAMPLE ID		COLLECTION DATA	
Operator	Southwest Cheese, LLC	**Pressure**	3 psig
Location	Clovis	**Sample Temp**	N/A
Site	Downstream of Polisher	**Atm Temp**	76 F
Site Type	Vessel	**Collection Date**	08/12/2022
Sample Point	Compressor Discharge Spot #7	**Collection Time**	8:31 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLA026 , PLS018 , PLS004

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	5.311	5.601	0.581
CARBON DIOXIDE	CO2	35.024	58.024	5.955
HYDROGEN SULFIDE	H2S	0.114	0.146	0.015
METHANE	C1	59.425	35.888	10.047
ETHANE	C2	0.000	0.000	0.000
PROPANE	C3	0.000	0.000	0.000
I-BUTANE	iC4	0.001	0.002	0.000
N-BUTANE	nC4	0.000	0.000	0.000
I-PENTANE	iC5	0.125	0.339	0.046
N-PENTANE	nC5	0.000	0.000	0.000
HEXANES PLUS	C6+	0.000	0.000	0.000
TOTALS:		**100.000**	**100.000**	**16.644**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	0.046	0.046	0.046	0.046	0.000	0.000

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	605.83	0.920	0.997	26.565	631.76
WATER SATURATED	596.32	0.915	0.997	26.101	

Attachment C

Clovis:Downstream of Polisher:Compressor Discharge Spot #7:8/12/2022
ASTM D5504 Gas Sulfur Speciation

SUMMARY	PPMV	GRAINS/100 SCF	PPMW
COMPOUND TOTALS:	**1,146.1**	**72.08**	**1,468.2**
TOTAL SULFUR, AS MASS OF SULFUR (PPMW):			**1,380.4**

Speciation Detail

SULFIDE GROUP	PPMV	GRAINS/100 SCF	PPMW
hydrogen sulfide	1,143.9	71.95	1,462.5
carbonyl sulfide	0.8	0.05	1.9
Dimethyl Sulfide	*0.0*	*0.00*	*0.0*
Methyl Ethyl Sulfide	*0.0*	*0.00*	*0.0*
Diethyl Sulfide	*0.0*	*0.00*	*0.0*
t-Butyl Methyl Sulfide	*0.0*	*0.00*	*0.0*
Methyl sec-Butyl Sulfide	*0.0*	*0.00*	*0.0*
Ethyl n-Propyl Sulfide	*0.0*	*0.00*	*0.0*
Diisopropyl Sulfide	*0.0*	*0.00*	*0.0*
Propyl Sulfide	*0.0*	*0.00*	*0.0*
tert-Butyl Sulfide	*0.0*	*0.00*	*0.0*
SULFIDE TOTALS:	**1,144.8**	**72.00**	**1,464.4**

DISULFIDE GROUP	PPMV	GRAINS/100 SCF	PPMW
Carbon Disulfide	1.3	0.08	3.8
Dimethyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl Methyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
Diethyl Disulfide	*0.0*	*0.00*	*0.0*
Propyl Methyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl tert-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl sec-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl Propyl Disulfide+1-Heptanethiol	*0.0*	*0.00*	*0.0*
i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
n-Propyl Disulfide	*0.0*	*0.00*	*0.0*
t-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Diphenyl Disulfide	*0.0*	*0.00*	*0.0*
DISULFIDE TOTALS:	**1.3**	**0.08**	**3.8**

MERCAPTAN GROUP	PPMV	GRAINS/100 SCF	PPMW
Methyl Mercaptan	*0.0*	*0.00*	*0.0*
Ethyl Mercaptan	*0.0*	*0.00*	*0.0*

i-Propyl Mercaptan	*0.0*	*0.00*	*0.0*
n-Propyl Mercaptan	*0.0*	*0.00*	*0.0*
tert-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
sec-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
i-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
n-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
1,5-Pentanedithiol	*0.0*	*0.00*	*0.0*
2 and 3-Methyl-1-Butanethiol+Tetrahydrothiophene	*0.0*	*0.00*	*0.0*
1-Pentanethiol	*0.0*	*0.00*	*0.0*
1,2-Ethanethiol	*0.0*	*0.00*	*0.0*
1-Hexanethiol	*0.0*	*0.00*	*0.0*
Thiophenol	*0.0*	*0.00*	*0.0*
1,4-Butanethiol	*0.0*	*0.00*	*0.0*
1-Octanethiol	*0.0*	*0.00*	*0.0*
1-Nonanethiol	*0.0*	*0.00*	*0.0*
1-Decanethiol	*0.0*	*0.00*	*0.0*
MERCAPTAN TOTALS:	**0.0**	**0.00**	**0.0**

THIOPHENE GROUP	PPMV	GRAINS/100 SCF	PPMW
Thiophene	*0.0*	*0.00*	*0.0*
2-Methylthiophene+3-Methylthiophene	*0.0*	*0.00*	*0.0*
2-Ethyl Thiophene	*0.0*	*0.00*	*0.0*
2-Bromothiophene	*0.0*	*0.00*	*0.0*
2-Propylthiophene	*0.0*	*0.00*	*0.0*
2-Butylthiophene	*0.0*	*0.00*	*0.0*
3-Butylthiophene	*0.0*	*0.00*	*0.0*
Benzothiophene	*0.0*	*0.00*	*0.0*
2-Methylbenzothiophene	*0.0*	*0.00*	*0.0*
THIOPHENE TOTALS:	**0.0**	**0.00**	**0.0**

OTHER SULFUR GROUP	PPMV	GRAINS/100 SCF	PPMW
sulfur dioxide	*0.0*	*0.00*	*0.0*
Unidentified Sulfur	*0.0*	*0.00*	*0.0*
OTHER SULFUR TOTALS:	**0.0**	**0.00**	**0.0**

Value of "0.0" interpreted as below detectable limit of 0.1 PPM Mol.

Pantechs Laboratories, Inc. - Order: 489-3379 - Order Date: 8/12/2022
Order Description: Clovis, Bio and Fuel Gas sampling

Attachment C

SAMPLE ID		COLLECTION DATA	
Operator	Southwest Cheese, LLC	**Pressure**	3 psig
Location	Clovis	**Sample Temp**	N/A
Site	Purchase Fuel Gas	**Atm Temp**	80 F
Site Type	Station	**Collection Date**	08/12/2022
Sample Point	Biofuel to Boiler Spot #8	**Collection Time**	8:50 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLA038 , PLS002 , PLS013

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	5.386	5.668	0.589
CARBON DIOXIDE	CO2	35.422	58.567	6.022
HYDROGEN SULFIDE	H2S	0.115	0.147	0.015
METHANE	C1	59.072	35.604	9.987
ETHANE	C2	0.000	0.000	0.000
PROPANE	C3	0.000	0.000	0.000
I-BUTANE	iC4	0.000	0.000	0.000
N-BUTANE	nC4	0.000	0.000	0.000
I-PENTANE	iC5	0.005	0.014	0.002
N-PENTANE	nC5	0.000	0.000	0.000
HEXANES PLUS	C6+	0.000	0.000	0.000
TOTALS:		**100.000**	**100.000**	**16.615**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	0.002	0.002	0.002	0.002	0.000	0.000

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	597.43	0.921	0.997	26.618	622.39
WATER SATURATED	588.07	0.917	0.997	26.153	

Attachment C

Clovis:Purchase Fuel Gas:Biofuel to Boiler Spot #8:8/12/2022
ASTM D5504 Gas Sulfur Speciation

SUMMARY	PPMV	GRAINS/100 SCF	PPMW
COMPOUND TOTALS:	**1,164.1**	**73.21**	**1,502.5**
TOTAL SULFUR, AS MASS OF SULFUR (PPMW):			**1,409.7**

Speciation Detail

SULFIDE GROUP	PPMV	GRAINS/100 SCF	PPMW
hydrogen sulfide	1,153.0	72.52	1,472.4
carbonyl sulfide	1.9	0.12	4.2
Dimethyl Sulfide	*0.0*	*0.00*	*0.0*
Methyl Ethyl Sulfide	*0.0*	*0.00*	*0.0*
Diethyl Sulfide	*0.0*	*0.00*	*0.0*
t-Butyl Methyl Sulfide	*0.0*	*0.00*	*0.0*
Methyl sec-Butyl Sulfide	*0.0*	*0.00*	*0.0*
Ethyl n-Propyl Sulfide	*0.0*	*0.00*	*0.0*
Diisopropyl Sulfide	*0.0*	*0.00*	*0.0*
Propyl Sulfide	*0.0*	*0.00*	*0.0*
tert-Butyl Sulfide	*0.0*	*0.00*	*0.0*
SULFIDE TOTALS:	**1,154.9**	**72.64**	**1,476.6**

DISULFIDE GROUP	PPMV	GRAINS/100 SCF	PPMW
Carbon Disulfide	9.2	0.58	25.9
Dimethyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl Methyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
Diethyl Disulfide	*0.0*	*0.00*	*0.0*
Propyl Methyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl tert-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl sec-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl Propyl Disulfide+1-Heptanethiol	*0.0*	*0.00*	*0.0*
i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
n-Propyl Disulfide	*0.0*	*0.00*	*0.0*
t-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Diphenyl Disulfide	*0.0*	*0.00*	*0.0*
DISULFIDE TOTALS:	**9.2**	**0.58**	**25.9**

MERCAPTAN GROUP	PPMV	GRAINS/100 SCF	PPMW
Methyl Mercaptan	*0.0*	*0.00*	*0.0*
Ethyl Mercaptan	*0.0*	*0.00*	*0.0*

i-Propyl Mercaptan	*0.0*	*0.00*	*0.0*
n-Propyl Mercaptan	*0.0*	*0.00*	*0.0*
tert-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
sec-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
i-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
n-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
1,5-Pentanedithiol	*0.0*	*0.00*	*0.0*
2 and 3-Methyl-1-Butanethiol+Tetrahydrothiophene	*0.0*	*0.00*	*0.0*
1-Pentanethiol	*0.0*	*0.00*	*0.0*
1,2-Ethanethiol	*0.0*	*0.00*	*0.0*
1-Hexanethiol	*0.0*	*0.00*	*0.0*
Thiophenol	*0.0*	*0.00*	*0.0*
1,4-Butanethiol	*0.0*	*0.00*	*0.0*
1-Octanethiol	*0.0*	*0.00*	*0.0*
1-Nonanethiol	*0.0*	*0.00*	*0.0*
1-Decanethiol	*0.0*	*0.00*	*0.0*
MERCAPTAN TOTALS:	**0.0**	**0.00**	**0.0**

THIOPHENE GROUP	PPMV	GRAINS/100 SCF	PPMW
Thiophene	*0.0*	*0.00*	*0.0*
2-Methylthiophene+3-Methylthiophene	*0.0*	*0.00*	*0.0*
2-Ethyl Thiophene	*0.0*	*0.00*	*0.0*
2-Bromothiophene	*0.0*	*0.00*	*0.0*
2-Propylthiophene	*0.0*	*0.00*	*0.0*
2-Butylthiophene	*0.0*	*0.00*	*0.0*
3-Butylthiophene	*0.0*	*0.00*	*0.0*
Benzothiophene	*0.0*	*0.00*	*0.0*
2-Methylbenzothiophene	*0.0*	*0.00*	*0.0*
THIOPHENE TOTALS:	**0.0**	**0.00**	**0.0**

OTHER SULFUR GROUP	PPMV	GRAINS/100 SCF	PPMW
sulfur dioxide	*0.0*	*0.00*	*0.0*
Unidentified Sulfur	*0.0*	*0.00*	*0.0*
OTHER SULFUR TOTALS:	**0.0**	**0.00**	**0.0**

Value of "0.0" interpreted as below detectable limit of 0.1 PPM Mol.

Pantechs Laboratories, Inc. - Order: 489-3379 - Order Date: 8/12/2022
Order Description: Clovis, Bio and Fuel Gas sampling

Attachment C

SAMPLE ID		COLLECTION DATA	
Operator	Southwest Cheese, LLC	**Pressure**	5 psig
Location	Clovis	**Sample Temp**	N/A
Site	Purchase Fuel Gas	**Atm Temp**	80 F
Site Type	Station	**Collection Date**	08/12/2022
Sample Point	Purchase Natural Gas Into Boiler Spot #9	**Collection Time**	8:49 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS001

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.476	3.963	0.271
CARBON DIOXIDE	CO2	0.184	0.463	0.031
HYDROGEN SULFIDE	H2S	0.000	0.000	0.000
METHANE	C1	90.444	82.909	15.281
ETHANE	C2	6.196	10.646	1.652
PROPANE	C3	0.478	1.204	0.131
I-BUTANE	iC4	0.055	0.183	0.018
N-BUTANE	nC4	0.099	0.329	0.031
I-PENTANE	iC5	0.027	0.111	0.010
N-PENTANE	nC5	0.024	0.099	0.009
HEXANES PLUS	C6+	0.017	0.093	0.007
TOTALS:		**100.000**	**100.000**	**17.441**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.858	0.206	0.075	0.026	0.038	0.017

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	1,042.19	0.605	0.998	17.501	1,339.45
WATER SATURATED	1,025.17	0.606	0.997	17.196	

Clovis:Purchase Fuel Gas:Purchase Natural Gas Into Boiler Spot #9:8/12/2022 Attachment C
ASTM D5504 Gas Sulfur Speciation

SUMMARY	PPMV	GRAINS/100 SCF	PPMW
COMPOUND TOTALS:	**3.1**	**0.19**	**12.2**
TOTAL SULFUR, AS MASS OF SULFUR (PPMW):			**10.0**

Speciation Detail

SULFIDE GROUP	PPMV	GRAINS/100 SCF	PPMW
hydrogen sulfide	*0.0*	*0.00*	*0.0*
carbonyl sulfide	*0.0*	*0.00*	*0.0*
Dimethyl Sulfide	*0.0*	*0.00*	*0.0*
Methyl Ethyl Sulfide	*0.0*	*0.00*	*0.0*
Diethyl Sulfide	*0.0*	*0.00*	*0.0*
t-Butyl Methyl Sulfide	*0.0*	*0.00*	*0.0*
Methyl sec-Butyl Sulfide	*0.0*	*0.00*	*0.0*
Ethyl n-Propyl Sulfide	*0.0*	*0.00*	*0.0*
Diisopropyl Sulfide	*0.0*	*0.00*	*0.0*
Propyl Sulfide	*0.0*	*0.00*	*0.0*
tert-Butyl Sulfide	*0.0*	*0.00*	*0.0*
SULFIDE TOTALS:	**0.0**	**0.00**	**0.0**

DISULFIDE GROUP	PPMV	GRAINS/100 SCF	PPMW
Carbon Disulfide	2.4	0.15	10.5
Dimethyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl Methyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
Diethyl Disulfide	*0.0*	*0.00*	*0.0*
Propyl Methyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl tert-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl sec-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl Propyl Disulfide+1-Heptanethiol	*0.0*	*0.00*	*0.0*
i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
n-Propyl Disulfide	*0.0*	*0.00*	*0.0*
t-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Diphenyl Disulfide	*0.0*	*0.00*	*0.0*
DISULFIDE TOTALS:	**2.4**	**0.15**	**10.5**

MERCAPTAN GROUP	PPMV	GRAINS/100 SCF	PPMW
Methyl Mercaptan	0.6	0.04	1.7
Ethyl Mercaptan	*0.0*	*0.00*	*0.0*

i-Propyl Mercaptan	*0.0*	*0.00*	*0.0*
n-Propyl Mercaptan	*0.0*	*0.00*	*0.0*
tert-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
sec-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
i-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
n-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
1,5-Pentanedithiol	*0.0*	*0.00*	*0.0*
2 and 3-Methyl-1-Butanethiol+Tetrahydrothiophene	*0.0*	*0.00*	*0.0*
1-Pentanethiol	*0.0*	*0.00*	*0.0*
1,2-Ethanethiol	*0.0*	*0.00*	*0.0*
1-Hexanethiol	*0.0*	*0.00*	*0.0*
Thiophenol	*0.0*	*0.00*	*0.0*
1,4-Butanethiol	*0.0*	*0.00*	*0.0*
1-Octanethiol	*0.0*	*0.00*	*0.0*
1-Nonanethiol	*0.0*	*0.00*	*0.0*
1-Decanethiol	*0.0*	*0.00*	*0.0*
MERCAPTAN TOTALS:	**0.6**	**0.04**	**1.7**

THIOPHENE GROUP	PPMV	GRAINS/100 SCF	PPMW
Thiophene	*0.0*	*0.00*	*0.0*
2-Methylthiophene+3-Methylthiophene	*0.0*	*0.00*	*0.0*
2-Ethyl Thiophene	*0.0*	*0.00*	*0.0*
2-Bromothiophene	*0.0*	*0.00*	*0.0*
2-Propylthiophene	*0.0*	*0.00*	*0.0*
2-Butylthiophene	*0.0*	*0.00*	*0.0*
3-Butylthiophene	*0.0*	*0.00*	*0.0*
Benzothiophene	*0.0*	*0.00*	*0.0*
2-Methylbenzothiophene	*0.0*	*0.00*	*0.0*
THIOPHENE TOTALS:	**0.0**	**0.00**	**0.0**

OTHER SULFUR GROUP	PPMV	GRAINS/100 SCF	PPMW
sulfur dioxide	*0.0*	*0.00*	*0.0*
Unidentified Sulfur	*0.0*	*0.00*	*0.0*
OTHER SULFUR TOTALS:	**0.0**	**0.00**	**0.0**

Value of "0.0" interpreted as below detectable limit of 0.1 PPM Mol.

Pantechs Laboratories, Inc. - Order: 489-3379 - Order Date: 8/12/2022
Order Description: Clovis, Bio and Fuel Gas sampling

Attachment C

SAMPLE ID		COLLECTION DATA	
Operator	Southwest Cheese, LLC	**Pressure**	0 psig
Location	Clovis	**Sample Temp**	N/A
Site	Upstream of Polisher	**Atm Temp**	76 F
Site Type	Vessel	**Collection Date**	08/12/2022
Sample Point	Upstream of Scrubber/Polisher #3 Spot #3	**Collection Time**	8:13 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.650 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLA030 , PLS006 , PLS033

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.478	0.502	0.052
CARBON DIOXIDE	CO2	37.679	62.189	6.407
HYDROGEN SULFIDE	H2S	0.136	0.174	0.018
***OXYGEN+ARGON**	O2+Ar	0.008	0.010	0.001
METHANE	C1	61.698	37.122	10.434
ETHANE	C2	0.000	0.000	0.000
PROPANE	C3	0.000	0.000	0.000
I-BUTANE	iC4	0.000	0.000	0.000
N-BUTANE	nC4	0.000	0.000	0.000
I-PENTANE	iC5	0.001	0.003	0.000
N-PENTANE	nC5	0.000	0.000	0.000
HEXANES	C6	0.000	0.000	0.000
TOTALS:		**100.000**	**100.000**	**16.912**

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table
***Oxygen+Argon:** Compounds elute as single peak on GPA 2261; additional testing required to distinguish each.*

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	0.000	0.000	0.000	0.000	0.000	0.000

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	624.06	0.923	0.997	26.664	649.49
WATER SATURATED	614.25	0.918	0.996	26.199	

Attachment C

Clovis:Upstream of Polisher:Upstream of Scrubber/Polisher #3 Spot #3:8/12/2022
ASTM D5504 Gas Sulfur Speciation

SUMMARY	PPMV	GRAINS/100 SCF	PPMW
COMPOUND TOTALS:	**1,395.1**	**87.74**	**1,795.6**
TOTAL SULFUR, AS MASS OF SULFUR (PPMW):			**1,666.6**

Speciation Detail

SULFIDE GROUP	PPMV	GRAINS/100 SCF	PPMW
hydrogen sulfide	1,373.1	86.36	1,737.4
carbonyl sulfide	3.3	0.21	7.4
Dimethyl Sulfide	0.3	0.02	0.8
Methyl Ethyl Sulfide	*0.0*	*0.00*	*0.0*
Diethyl Sulfide	*0.0*	*0.00*	*0.0*
t-Butyl Methyl Sulfide	*0.0*	*0.00*	*0.0*
Methyl sec-Butyl Sulfide	*0.0*	*0.00*	*0.0*
Ethyl n-Propyl Sulfide	*0.0*	*0.00*	*0.0*
Diisopropyl Sulfide	*0.0*	*0.00*	*0.0*
Propyl Sulfide	*0.0*	*0.00*	*0.0*
tert-Butyl Sulfide	*0.0*	*0.00*	*0.0*
SULFIDE TOTALS:	**1,376.8**	**86.59**	**1,745.6**

DISULFIDE GROUP	PPMV	GRAINS/100 SCF	PPMW
Carbon Disulfide	3.5	0.22	10.0
Dimethyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl Methyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl i-Propyl Disulfide	*0.0*	*0.00*	*0.0*
Diethyl Disulfide	*0.0*	*0.00*	*0.0*
Propyl Methyl Disulfide	*0.0*	*0.00*	*0.0*
Methyl tert-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl i-Propyl Disulfide	0.3	0.02	1.6
Methyl sec-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Ethyl Propyl Disulfide+1-Heptanethiol	*0.0*	*0.00*	*0.0*
i-Propyl Disulfide	0.4	0.02	2.1
n-Propyl Disulfide	*0.0*	*0.00*	*0.0*
t-Butyl Disulfide	*0.0*	*0.00*	*0.0*
Diphenyl Disulfide	*0.0*	*0.00*	*0.0*
DISULFIDE TOTALS:	**4.2**	**0.27**	**13.7**

MERCAPTAN GROUP	PPMV	GRAINS/100 SCF	PPMW
Methyl Mercaptan	3.6	0.23	6.4
Ethyl Mercaptan	3.4	0.21	7.8

i-Propyl Mercaptan	4.2	0.26	11.9
n-Propyl Mercaptan	0.8	0.05	2.4
tert-Butyl Mercaptan	0.4	0.03	1.5
sec-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
i-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
n-Butyl Mercaptan	*0.0*	*0.00*	*0.0*
1,5-Pentanedithiol	*0.0*	*0.00*	*0.0*
2 and 3-Methyl-1-Butanethiol+Tetrahydrothiophene	*0.0*	*0.00*	*0.0*
1-Pentanethiol	*0.0*	*0.00*	*0.0*
1,2-Ethanethiol	*0.0*	*0.00*	*0.0*
1-Hexanethiol	*0.0*	*0.00*	*0.0*
Thiophenol	*0.0*	*0.00*	*0.0*
1,4-Butanethiol	*0.0*	*0.00*	*0.0*
1-Octanethiol	*0.0*	*0.00*	*0.0*
1-Nonanethiol	*0.0*	*0.00*	*0.0*
1-Decanethiol	*0.0*	*0.00*	*0.0*
MERCAPTAN TOTALS:	**12.5**	**0.78**	**30.0**

THIOPHENE GROUP	PPMV	GRAINS/100 SCF	PPMW
Thiophene	1.0	0.06	3.3
2-Methylthiophene+3-Methylthiophene	*0.0*	*0.00*	*0.0*
2-Ethyl Thiophene	*0.0*	*0.00*	*0.0*
2-Bromothiophene	*0.0*	*0.00*	*0.0*
2-Propylthiophene	*0.0*	*0.00*	*0.0*
2-Butylthiophene	0.3	0.02	1.5
3-Butylthiophene	*0.0*	*0.00*	*0.0*
Benzothiophene	*0.0*	*0.00*	*0.0*
2-Methylbenzothiophene	*0.0*	*0.00*	*0.0*
THIOPHENE TOTALS:	**1.3**	**0.08**	**4.8**

OTHER SULFUR GROUP	PPMV	GRAINS/100 SCF	PPMW
sulfur dioxide	*0.0*	*0.00*	*0.0*
Unidentified Sulfur	0.3	0.02	1.4
OTHER SULFUR TOTALS:	**0.3**	**0.02**	**1.4**

Value of "0.0" interpreted as below detectable limit of 0.1 PPM Mol.

THIS PAGE IS INTENTIONALLY LEFT BLANK