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www.alsglobal.com

LABORATORY REPORT

February 3, 2017

Paul Sadler
Focus Environmental, Inc.
4700 Papermill Dr.
Knoxville, TN 37909

RE: Kuwahee Biogas Sampling / P-001208

Dear Paul:

Enclosed are the results of the sample submitted to our laboratory on February 1, 2017. For your reference, this analysis has been assigned our service request number P1700445.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Samantha Henningsen at 3:18 pm, Feb 03, 2017

Samantha Henningsen
Project Manager



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Client: Focus Environmental, Inc.
Project: Kuwahee Biogas Sampling / P-001208

Service Request No: P1700445

CASE NARRATIVE

The sample was received intact under chain of custody on February 1, 2017 and was stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample at the time of sample receipt.

Sulfur Analysis

The sample was analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2016036
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1177034
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-16-7
Utah DOH (NELAP)	http://health.utah.gov/lab/environmental-lab-certification/	CA01627201 6-6
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

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DETAIL SUMMARY REPORT

Client: Focus Environmental, Inc.
Project ID: Kuwahee Biogas Sampling / P-001208

Service Request: P1700445

Date Received: 2/1/2017
Time Received: 09:30

ASTM D 5504-12 - Sulfur Bag

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	
TB-013117-ALS	P1700445-001	Air	1/31/2017	10:05	X



Page _____ of _____

Air - Chain of Custody Record & Analytical Service Request

5 of 9

Client: <u>Focus Environmental, Inc.</u>	Work order: <u>P1700445</u>
Project: <u>Kuwahee Biogas Sampling / P-001208</u>	
Sample(s) received on: <u>2/1/17</u>	Date opened: <u>2/1/17</u> by: <u>ADAVID</u>

		Yes	No	N/A
1	Were sample containers properly marked with client sample ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Did sample containers arrive in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Were chain-of-custody papers used and filled out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Did sample container labels and/or tags agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Was sample volume received adequate for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Are samples within specified holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Was proper temperature (thermal preservation) of cooler at receipt adhered to?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	Were custody seals on outside of cooler/Box/Container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Location of seal(s)? <u>Box sealing.</u> Sealing Lid?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Were signature and date included?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Were seals intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Do containers have appropriate preservation , according to method/SOP or Client specified information?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is there a client indication that the submitted samples are pH preserved?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were VOA vials checked for presence/absence of air bubbles?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Tubes: Are the tubes capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Badges: Are the badges properly capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Are dual bed badges separated and individually capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

[illegible]

Explain any discrepancies: (include lab sample ID numbers):

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Focus Environmental, Inc.
Client Sample ID: TB-013117-ALS
Client Project ID: Kuwahee Biogas Sampling / P-001208

ALS Project ID: P1700445
 ALS Sample ID: P1700445-001

Test Code: ASTM D 5504-12
 Instrument ID: Agilent 6890A/GC13/SCD
 Analyst: Mike Conejo
 Sample Type: 1 L Zefon Bag
 Test Notes:

Date Collected: 1/31/17
 Time Collected: 10:05
 Date Received: 2/1/17
 Date Analyzed: 2/1/17
 Time Analyzed: 10:01
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	64,000	7.0	46,000	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	30	9.8	15	5.0	
75-08-1	Ethyl Mercaptan	130	13	52	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	170	16	53	5.0	
75-66-1	tert-Butyl Mercaptan	160	18	43	5.0	
107-03-9	n-Propyl Mercaptan	380	16	120	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	31	17	9.1	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	23	18	6.2	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Focus Environmental, Inc.
Client Sample ID: Method Blank
Client Project ID: Kuwahee Biogas Sampling / P-001208

ALS Project ID: P1700445
 ALS Sample ID: P170201-MB

Test Code: ASTM D 5504-12
 Instrument ID: Agilent 6890A/GC13/SCD
 Analyst: Mike Conejo
 Sample Type: 1 L Zefon Bag
 Test Notes:

Date Collected: NA
 Time Collected: NA
 Date Received: NA
 Date Analyzed: 2/01/17
 Time Analyzed: 08:14
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

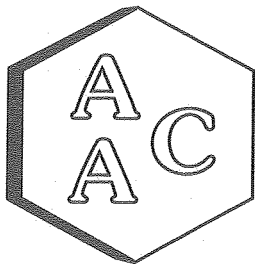
Client: Focus Environmental, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: Kuwahee Biogas Sampling / P-001208

ALS Project ID: P1700445
ALS Sample ID: P170201-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: 1 L Zefon Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 2/01/17
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
7783-06-4	Hydrogen Sulfide	1,000	1,060	106	75-148	
463-58-1	Carbonyl Sulfide	1,000	1,060	106	70-137	
74-93-1	Methyl Mercaptan	1,000	1,030	103	72-139	



Atmospheric Analysis & Consulting, Inc.

CLIENT : Focus Environmental
PROJECT NAME : Kuwahee Biogas Sampling
PROJECT NUMBER : PO 001208
AAC PROJECT NO. : 170138
REPORT DATE : 2/2/2017


On February 1, 2017, Atmospheric Analysis & Consulting, Inc. received one (1) Tedlar Bag for Total Reduced Sulfur analysis by ASTM D-5504. Upon receipt, the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab No.
TB-013117-AAC	170138-96578

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

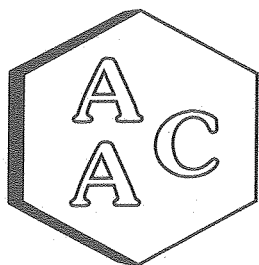
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. Sample was received past the suggested holding time of 24 hours for the analysis of sulfur from a Tedlar Bag. The client provided one backup sample. An unusually high amount of liquid was present in the backup Tedlar Bag. No other problems were encountered during receiving, preparation, and/or analysis of these samples. The Laboratory Director or his/her designee, as verified by the following signature, has authorized release of the data contained in this hardcopy report.

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


Marcus Hueppe
Laboratory Director

This report consists of 4 pages.





Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT


CLIENT : Focus Environmental
PROJECT NO. : 170138
MATRIX : AIR
UNITS : ppmV

SAMPLING DATE : 01/31/2017
RECEIVING DATE : 02/01/2017
ANALYSIS DATE : 02/01/2017
REPORT DATE : 02/02/2017

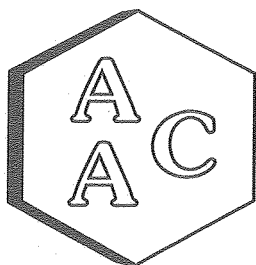
Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	TB-013117-AAC
AAC ID	170138-96578
Analyte	Result
Hydrogen Sulfide	39.0
Carbonyl Sulfide	< 0.050
Sulfur Dioxide	< 0.050
Methyl Mercaptan	< 0.050
Ethyl Mercaptan	0.059
Dimethyl Sulfide	< 0.050
Carbon Disulfide	< 0.050
Isopropyl Mercaptan	0.057
tert-Butyl Mercaptan	< 0.050
n-Propyl Mercaptan	0.123
Methylethylsulfide	< 0.050
sec-Butyl Mercaptan	< 0.050
Thiophene	< 0.050
iso-Butyl Mercaptan	< 0.050
Diethyl Sulfide	< 0.050
n-Butyl Mercaptan	< 0.050
Dimethyl Disulfide	< 0.050
2-Methylthiophene	< 0.050
3-Methylthiophene	< 0.050
Tetrahydrothiophene	< 0.050
Bromothiophene	< 0.050
Thiophenol	< 0.050
Diethyl Disulfide	< 0.050
Total Unidentified Sulfur	< 0.050
Total Reduced Sulfurs	39.2

All unidentified compound's concentrations expressed in terms of H₂S (TRS does not include COS and SO₂)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report ASTM D-5504

Date Analyzed: 2/1/2017
Analyst: ZB
Units: ppbV

Instrument ID: SCD#10
Calb. Date: 1/30/2017

Opening Calibration Verification Standard

525.5 ppbV H₂S (SS0971)

H ₂ S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	14146	528	100.5	0.8
Duplicate	13928	520	99.0	0.7
Triplicate	14017	524	99.6	0.1

549 ppbV MeSH (SS0988)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	14167	568	103.5	1.7
Duplicate	13888	557	101.5	0.3
Triplicate	13744	551	100.4	1.4

488.8 ppbV CS₂ (SS0972)

CS ₂	Resp. (area)	Result	% Rec *	% RPD ****
Initial	30803	512	104.8	0.7
Duplicate	30752	511	104.6	0.6
Triplicate	30182	502	102.7	1.3

Method Blank

Analyte	Result
H ₂ S	<PQL
MeSH	<PQL
CS ₂	<PQL

Duplicate Analysis

Sample ID 170132-96547

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H ₂ S	50077.8	49815.7	49946.8	0.5
MeSH	301.8	297.5	299.7	1.4
CS ₂	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate

Sample ID 170132-96547 x100

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H ₂ S	499.5	262.8	788.9	768.0	103.5	100.8	2.7
MeSH	3.0	274.5	282.2	271.0	101.7	97.7	4.0
CS ₂	<PQL	244.4	255.7	252.6	104.6	103.4	1.2

Closing Calibration Verification Standard


Analyte	Std. Conc.	Result	% Rec **
H ₂ S	525.5	509.4	96.9
MeSH	549.0	540.4	98.4
CS ₂	488.8	510.3	104.4

* Must be 95-105%, ** Must be 90-110%, *** Must be <10%, **** Must be <5% RPD from Mean result.

H₂S: PQL = 10.0 ppbV, MDL = 1.51 ppbV

MeSH: PQL = 10.0 ppbV, MDL = 1.48 ppbV

CS₂: PQL = 10.0 ppbV, MDL = 1.44 ppbV


Marcus Hueppe
Laboratory Director

Page 3



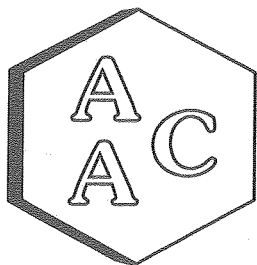
ATMOSPHERIC ANALYSIS & CONSULTING, INC.
1534 Eastman Avenue, Suite A
Ventura, California 93003
Phone (805) 650-1642 Fax (805) 650-1644
E-mail: info@aqcclab.com

AAC Project No. 170138

Page 0

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

[illegible]



Atmospheric Analysis & Consulting, Inc.

CLIENT : Focus Environmental
PROJECT NAME : Kuwahee Biogas Sampling
PROJECT NUMBER : PO 001208
AAC PROJECT NO. : 170158
REPORT DATE : 2/7/2017

On February 6, 2017, Atmospheric Analysis & Consulting, Inc. received one (1) Six-Liter Silonite Canister for BTU analysis by ASTM D-3588. Upon receipt, the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab No.	Initial Pressure (mmHg)
SC-013117-AAC	170158-96655	342.9

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aacalab.com.

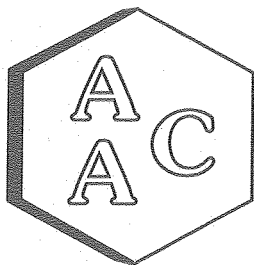
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of this sample. The Laboratory Director or his/her designee, as verified by the following signature,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

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

Marcus Hueppe
Laboratory Director

This report consists of 7 pages.





Atmospheric Analysis & Consulting, Inc.

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

CLIENT Focus Environmental
PROJECT NO. 170158

SAMPLING DATE 1/31/2017
ANALYSIS DATE 2/6/2017

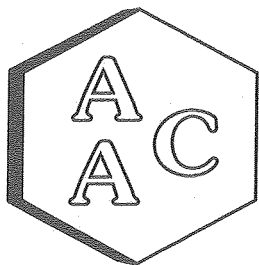
Client ID:		SC-013117-AAC	
AAC ID:		170158-96655	
FIXED GASES	Component	Mole %	Weight %
	H ₂	0.00	0.00
	O ₂	0.26	0.31
	N ₂	1.35	1.42
	CO	0.00	0.00
	CO ₂	36.92	61.15
	CH ₄	61.47	37.11
	He	NM	NM
HYDROCARBONS	Ar	NM	NM
	C ₂ (as Ethane)	0.0005	0.0005
	C ₃ (as Propane)	0.0004	0.0006
	C ₄ (as Butane)	0.0000	0.0001
	C ₅ (as Pentane)	0.0000	0.0000
	C ₆ (as Hexane)	0.0000	0.0000
TRS	C ₆₊ (as Hexane)	0.0004	0.0012
	TRS as H ₂ S	0.0021	0.0026
H ₂ O	Moisture content	NM	NM

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

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		HHV Btu/lb	8867
Carbon (C)	44.5	LHV Btu/lb	7984
Hydrogen (H)	9.3	HHV Btu/dscf	621
Oxygen (O)	44.8	LHV Btu/dscf	559
Nitrogen (N)	1.4	F-Factor	9202
Helium (He)	0.00	Relative Density	0.9176
Argon (Ar)	0.00	C2-C6+ Weight %	0.0024
Sulfur (S)	0.00	MW lb/lb-mole	26.572
Motor Octane Number	94.41	Methane Number	34.22


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT Focus Environmental
PROJECT NO. 170158
MATRIX AIR
UNITS ppmV

SAMPLING DATE 01/31/17
ANALYSIS DATE 02/06/17

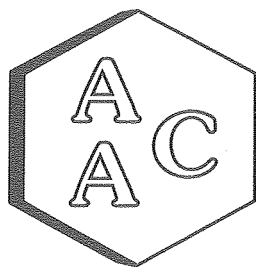
Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	SC-013117-AAC
AAC ID	170158-96655
Canister Dil. Fac.	3.0
Analyte	Result
Hydrogen Sulfide	18.7
Carbonyl Sulfide	< 0.150
Sulfur Dioxide	< 0.150
Methyl Mercaptan	< 0.150
Ethyl Mercaptan	< 0.150
Dimethyl Sulfide	< 0.150
Carbon Disulfide	< 0.150
Isopropyl Mercaptan	< 0.150
tert-Butyl Mercaptan	< 0.150
n-Propyl Mercaptan	< 0.150
Methylethylsulfide	< 0.150
sec-Butyl Mercaptan	< 0.150
Thiophene	< 0.150
iso-Butyl Mercaptan	< 0.150
Diethyl Sulfide	< 0.150
n-Butyl Mercaptan	< 0.150
Dimethyl Disulfide	< 0.150
2-Methylthiophene	< 0.150
3-Methylthiophene	< 0.150
Tetrahydrothiophene	< 0.150
Bromothiophene	< 0.150
Thiophenol	< 0.150
Diethyl Disulfide	< 0.150
Total Unidentified Sulfur	< 0.150
Total Reduced Sulfurs	18.7

All unidentified compound's concentrations expressed in terms of H₂S (TRS does not include COS and SO₂)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 02/06/2017
Analyst : CNG
Units : %

Instrument ID : TCD#1
Calb Date : 01/03/17
Reporting Limit : 0.1%

I - Opening Continuing Calibration Verification - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
CCV	Spike Conc	10.0	10.0	20.2	10.1	10.0	10.2
	Result	9.7	10.1	19.2	8.8	8.5	8.7
	% Rec *	97.3	101.0	95.0	87.6	85.1	85.0

II - Method Blank - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	10.0	10.0	20.2	10.1	10.0	10.2
	LCS Result	9.6	10.9	20.7	9.4	9.2	9.3
	LCSD Result	9.8	11.3	21.4	9.8	9.5	9.6
	LCS % Rec *	96.2	109.0	102.3	93.6	91.8	91.7
	LCSD % Rec *	97.7	113.0	105.7	97.2	94.8	94.5
	% RPD ***	1.5	3.6	3.2	3.7	3.2	3.1

IV - Sample & Sample Duplicate - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
170154-96642	Sample	0.0	5.4	30.2	1.6	0.0	0.0
	Sample Dup	0.0	5.9	32.8	1.7	0.0	0.0
	Mean	0.0	5.7	31.5	1.7	0.0	0.0
	% RPD ***	0.0	7.8	8.4	9.8	0.0	0.0

V - Matrix Spike & Duplicate - ASTM D-1945/1946

AAC ID	Analyte	H ₂	N ₂	CO ₂	CH ₄	CO
170154-96642	Sample Conc	0.0	15.7	0.8	0.0	0.0
	Spike Conc	10.0	9.8	10.1	10.0	10.2
	MS Result	10.0	26.5	11.5	10.5	10.7
	MSD Result	10.0	24.6	10.6	9.6	9.8
	MS % Rec **	99.8	110.0	105.8	104.7	104.7
	MSD % Rec **	100.4	91.3	96.8	96.5	96.1
	% RPD ***	0.5	18.5	8.9	8.1	8.6

VI - Closing Continuing Calibration Verification - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
CCV	Spike Conc	10.0	10.0	20.2	10.1	10.0	10.2
	Result	9.4	10.6	20.0	9.1	8.7	8.9
	% Rec *	94.2	105.3	98.6	89.8	87.6	87.4


* Must be 85-115%

** Must be 75-125%

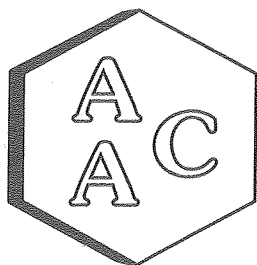
*** Must be < 25%

ND = Not Detected

<RL = less than Reporting Limit


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 02/06/2017
Analyst : CNG
Units : ppmv

Instrument ID : FID #3
Calb Date : 01/19/17
Reporting Limit : 0.5 ppmv

I - Opening Continuing Calibration Verification - ASTM D-1945/1946

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	99.5	99.9	99.7	99.6	99.8	99.9
	Result	93.7	95.3	95.1	94.1	93.7	96.1
	% Rec *	94.2	95.3	95.3	94.4	93.9	96.2

II - Method Blank - ASTM D-1945/1946

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

III - Laboratory Control Spike & Duplicate - ASTM D-1945/1946

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	99.5	99.9	99.7	99.6	99.8	99.9
	LCS Result	93.4	95.1	95.2	93.8	93.3	95.6
	LCSD Result	94.4	96.3	95.9	94.6	94.2	96.8
	LCS % Rec *	93.9	95.1	95.5	94.2	93.6	95.7
	LCSD % Rec *	94.9	96.4	96.2	95.0	94.4	96.9
	% RPD ***	1.0	1.3	0.7	0.8	0.9	1.2

IV - Sample & Sample Duplicate - ASTM D-1945/1946

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
170155-96646	Sample	21.6	1.3	0.0	0.0	0.0	1.4
	Sample Dup	21.3	1.2	0.0	0.0	0.0	1.4
	Mean	21.4	1.2	0.0	0.0	0.0	1.4
	% RPD ***	1.6	7.2	0.0	0.0	0.0	0.0

V - Matrix Spike & Duplicate - ASTM D-1945/1946

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
170155-96646	Sample Conc	10.7	0.6	0.0	0.0	0.0	0.7
	Spike Conc	49.7	50.0	49.9	49.8	49.9	50.0
	MS Result	59.2	50.8	50.0	49.3	49.2	50.9
	MSD Result	61.5	52.8	52.5	51.4	51.3	53.5
	MS % Rec **	97.5	100.4	100.3	99.1	98.6	100.4
	MSD % Rec **	102.1	104.4	105.4	103.3	102.9	105.6
	% RPD ***	4.6	4.0	5.0	4.1	4.3	5.1

VI - Closing Continuing Calibration Verification - ASTM D-1945/1946

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	99.5	99.9	99.7	99.6	99.8	99.9
	Result	92.9	94.4	93.6	92.4	92.0	94.3
	% Rec *	93.4	94.4	93.8	92.7	92.2	94.4

* Must be 85-115%

** Must be 75-125%

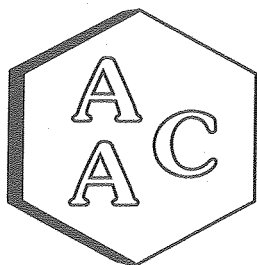
*** Must be < 25%

ND = Not Detected

<RL = less than Reporting Limit


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report ASTM D-5504

Date Analyzed: 2/6/2017
Analyst: ZB
Units: ppbV

Instrument ID: SCD#10
Calb. Date: 1/30/2017

Opening Calibration Verification Standard

525.5 ppbV H₂S (SS0971)

H ₂ S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	13727	513	97.6	0.3
Duplicate	13577	507	96.5	0.8
Triplicate	13758	514	97.8	0.5

549 ppbV MeSH (SS0988)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	13548	544	99.0	0.5
Duplicate	13411	538	98.0	0.6
Triplicate	13500	542	98.7	0.1

488.8 ppbV CS₂ (SS0972)

CS ₂	Resp. (area)	Result	% Rec *	% RPD ****
Initial	29826	496	101.5	0.0
Duplicate	29734	495	101.2	0.3
Triplicate	29909	497	101.8	0.3

Method Blank

Analyte	Result
H ₂ S	<PQL
MeSH	<PQL
CS ₂	<PQL

Duplicate Analysis

Sample ID 170151-96610

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H ₂ S	45361.3	46448.9	45905.1	2.4
MeSH	1756.7	1717.8	1737.3	2.2
CS ₂	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate

Sample ID 170151-96610 x100

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H ₂ S	459.1	262.8	719.1	753.7	99.6	104.4	4.7
MeSH	17.4	274.5	292.1	291.1	100.1	99.7	0.3
CS ₂	<PQL	244.4	251.3	243.4	102.8	99.6	3.2

Closing Calibration Verification Standard


Analyte	Std. Conc.	Result	% Rec **
H ₂ S	525.5	484.0	92.1
MeSH	549.0	505.3	92.0
CS ₂	488.8	461.1	94.3

* Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.

H₂S: PQL = 10.0 ppbV, MDL = 1.51 ppbV

MeSH: PQL = 10.0 ppbV, MDL = 1.48 ppbV

CS₂: PQL = 10.0 ppbV, MDL = 1.44 ppbV


Marcus Hueppe

Laboratory Director

Page 6



ATMOSPHERIC ANALYSIS & CONSULTING, INC.
1534 Eastman Avenue, Suite A
Ventura, California 93003
Phone (805) 650-1642, Fax (805) 650-1644
E-mail: info@aacalab.com

1075

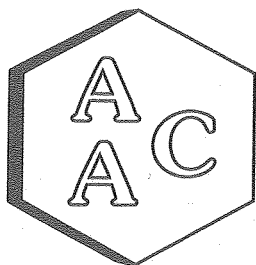
Page 9

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

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DETAIL DRAIN 1-3-17 10:30
Print Name
a 032-02/06/17 025



Atmospheric Analysis & Consulting, Inc.

CLIENT : Focus Environmental
PROJECT NAME : Kuwahee Biogas Sampling
PROJECT NUMBER : PO 001208
AAC PROJECT NO. : 170162
REPORT DATE : 2/8/2017

On February 7, 2017, Atmospheric Analysis & Consulting, Inc. received one (1) Tedlar Bag for Total Reduced Sulfur analysis by ASTM D-5504. Upon receipt, the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab No.
TB-020617-AAC	170162-96663

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aacclab.com.

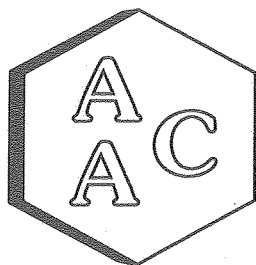
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. Sample was received past the suggested holding time of 24 hours for the analysis of sulfur from a Tedlar Bag. The client provided one backup sample. No other problems were encountered during receiving, preparation, and/or analysis of these samples. The Laboratory Director or his/her designee, as verified by the following signature, has authorized release of the data contained in this hardcopy report.

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


Marcus Hueppe
Laboratory Director

This report consists of 4 pages.





Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT


CLIENT : Focus Environmental
PROJECT NO. : 170162
MATRIX : AIR
UNITS : ppmV

SAMPLING DATE : 02/06/2017
RECEIVING DATE : 02/07/2017
ANALYSIS DATE : 02/07/2017
REPORT DATE : 02/08/2017

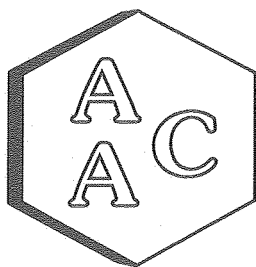
Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	TB-020617-AAC
AAC ID	170162-96663
Analyte	Result
Hydrogen Sulfide	35.2
Carbonyl Sulfide	< 0.050
Sulfur Dioxide	< 0.050
Methyl Mercaptan	< 0.050
Ethyl Mercaptan	0.073
Dimethyl Sulfide	< 0.050
Carbon Disulfide	< 0.050
Isopropyl Mercaptan	< 0.050
tert-Butyl Mercaptan	< 0.050
n-Propyl Mercaptan	0.152
Methylethylsulfide	< 0.050
sec-Butyl Mercaptan	< 0.050
Thiophene	< 0.050
iso-Butyl Mercaptan	< 0.050
Diethyl Sulfide	< 0.050
n-Butyl Mercaptan	< 0.050
Dimethyl Disulfide	< 0.050
2-Methylthiophene	< 0.050
3-Methylthiophene	< 0.050
Tetrahydrothiophene	< 0.050
Bromothiophene	< 0.050
Thiophenol	< 0.050
Diethyl Disulfide	< 0.050
Total Unidentified Sulfur	< 0.050
Total Reduced Sulfurs	35.4

All unidentified compound's concentrations expressed in terms of H₂S (TRS does not include COS and SO₂)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report ASTM D-5504

Date Analyzed: 2/7/2017
Analyst: ZB
Units: ppbV

Instrument ID: SCD#10
Calb. Date: 1/30/2017

Opening Calibration Verification Standard

525.5 ppbV H₂S (SS0971)

H ₂ S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	13728	513	97.6	0.1
Duplicate	13775	515	97.9	0.2
Triplicate	13736	513	97.6	0.1

549 ppbV MeSH (SS0988)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	13611	546	99.5	0.9
Duplicate	13521	542	98.8	0.2
Triplicate	13340	535	97.5	1.1

488.8 ppbV CS₂ (SS0972)

CS ₂	Resp. (area)	Result	% Rec *	% RPD ****
Initial	30028	499	102.2	0.7
Duplicate	30115	501	102.5	0.9
Triplicate	29359	488	99.9	1.6

Method Blank

Analyte	Result
H ₂ S	<PQL
MeSH	<PQL
CS ₂	<PQL

Duplicate Analysis

Sample ID 170159-96657

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H ₂ S	123.3	116.1	119.7	6.0
MeSH	<PQL	<PQL	0.0	0.0
CS ₂	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate

Sample ID 170159-96657 x10

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H ₂ S	12.0	262.8	268.9	270.2	97.9	98.3	0.5
MeSH	<PQL	274.5	274.6	272.9	100.0	99.4	0.6
CS ₂	<PQL	244.4	251.5	251.4	102.9	102.8	0.1

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H ₂ S	525.5	517.7	98.5
MeSH	549.0	547.2	99.7
CS ₂	488.8	497.7	101.8

* Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.

H₂S: PQL = 10.0 ppbV, MDL = 1.51 ppbV

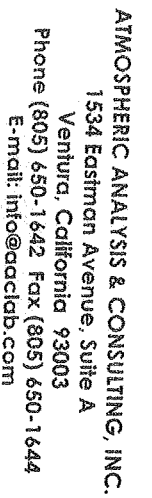
MeSH: PQL = 10.0 ppbV, MDL = 1.48 ppbV

CS₂: PQL = 10.0 ppbV, MDL = 1.44 ppbV


Marcus Hueppe
Laboratory Director

Page 3





170162

Page 1

Client Name

Project Name

Kinnake Bigas Sampling

Analysis Requested

Send report:

Project Mgr (Print Name)
Paul Sadler
Sampler's Name (Print Name)

Project Number
PO 001208
Sampler's Signature

Full Btu	D3588
Fixed Gas	D1946
Reduced S/H ₂ S	D5504
Siloxanes	TO-15

Attn: **Paul Sadler**
pasadler@focusn.com
 Phone#: **(855) 492-8664**
 Fax#: **(855) 531-8854**
 Send invoice to:

Send invoice to:

Ahn: Pall Saeffer

P.O. # PD 8839

Turnaround Time

24-Hr 48-Hr

5 Day Normal ✓

Other (Specify)

Special Instructions/remarks:

Relinquished by (Signature) _____

Print Name: David S. Williams

Date/Time

Received by (signature):

Print Name a-b-17

Relinquished by (Signature):

Print Name: _____

1102

Impress

AMERICA

Imperial

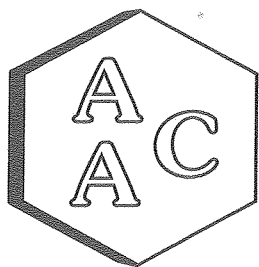
BEVIN DANFORD

2-16-17 14:30

received by Agriculture.

Print Name _____

71621



Atmospheric Analysis & Consulting, Inc.

CLIENT : Focus Environmental
PROJECT NAME : Kuwahee Biogas Sampling
PROJECT NUMBER : PO 001208
AAC PROJECT NO. : 170158
REPORT DATE : 02/09/2017


On February 6, 2017, Atmospheric Analysis & Consulting, Inc. received one (1) Six-Liter Summa Canister for Siloxanes per EPA method TO-15. Upon receipt each sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab ID	Return Pressure (mmHga)
SC-013117-AAC	170158-96655	342.9

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aacalab.com.

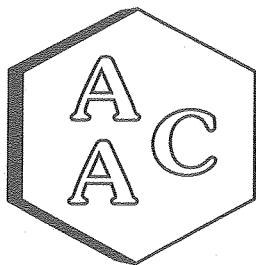
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Laboratory Director or his/her designee, as verified by the following signature,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

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


Marcus Hueppe
Laboratory Director

This report consists of 10 pages.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

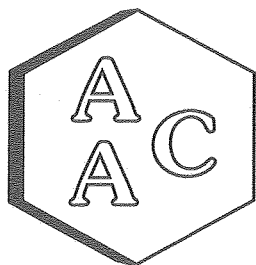
CLIENT : Focus Environmental
PROJECT NO : 170158
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 02/06/2017
DATE REPORTED : 02/09/2017

<i>Client ID</i>	SC-013117-AAC	
<i>AAC ID</i>	170158-96655	
<i>Date Sampled</i>	01/31/2017	
<i>Date Analyzed</i>	02/08/2017	
<i>Can Dilution Factor</i>	3.01	
SILOXANES		
<i>Compound</i>	<i>PPB(V/V)</i>	<i>Sample Reporting Limit</i>
Hexamethyldisiloxane (L2)	<SRL	30.1
Hexamethylcyclotrisiloxane (D3)	<SRL	30.1
Octamethyltrisiloxane (L3)	<SRL	30.1
Octamethylcyclotetrasiloxane (D4)	273	30.1
Decamethyltetrasiloxane (L4)	<SRL	30.1
Decamethylcyclopentasiloxane (D5)	194	30.1
Dodecamethylpentasiloxane (L5)	<SRL	30.1
BFB-Surrogate Std. % Recovery	100%	


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

ANALYSIS DATE : 02/08/2017
ANALYST : JJG

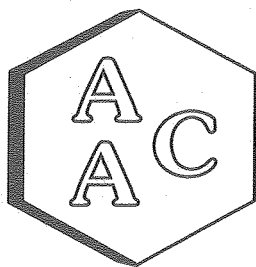
INSTRUMENT ID : GC/MS-03
CALIBRATION STD ID : PS113016-03

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Continuing Calibration Verification of the 01/16/2017 Calibration

Compounds	Conc	Daily Conc	%REC*
4-BFB (surrogate standard)	10.00	10.04	100
Chlorodifluoromethane	10.40	10.20	98
Propene	10.90	10.53	97
Dichlorodifluoromethane	10.60	10.67	101
Chloromethane	10.30	9.01	87
Dichlorotetrafluoroethane	10.00	9.91	99
Vinyl Chloride	10.10	10.15	100
Methanol	19.00	20.05	106
1,3-Butadiene	10.50	9.75	93
Bromomethane	10.00	8.51	85
Chloroethane	9.70	9.57	99
Dichlorofluoromethane	10.60	10.37	98
Ethanol	9.10	9.16	101
Vinyl Bromide	10.10	9.86	98
Acetone	10.60	8.39	79
Trichlorofluoromethane	10.40	9.21	89
2-Propanol (IPA)	10.80	8.48	79
Acrylonitrile	11.50	10.75	93
1,1-Dichloroethene	10.80	10.21	95
Methylene Chloride (DCM)	10.50	9.96	95
Allyl Chloride	11.00	9.74	89
Carbon Disulfide	10.00	10.31	103
Trichlorotrifluoroethane	10.70	10.17	95
trans-1,2-Dichloroethene	10.10	10.13	100
1,1-Dichloroethane	10.50	10.19	97
Methyl Tert Butyl Ether (MTBE)	10.60	10.21	96
Vinyl Acetate	10.80	11.08	103
2-Butanone (MEK)	10.60	10.37	98
cis-1,2-Dichloroethene	10.60	10.26	97
Hexane	10.50	10.11	96
Chloroform	10.90	10.68	98
Ethyl Acetate	10.90	11.18	103
Tetrahydrofuran	10.50	10.14	97
1,2-Dichloroethane	10.60	10.36	98
1,1,1-Trichloroethane	10.60	10.24	97





Atmospheric Analysis & Consulting, Inc.

ANALYSIS DATE : 02/08/2017
ANALYST : JIG

INSTRUMENT ID : GC/MS-03
CALIBRATION STD ID : PS113016-03

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

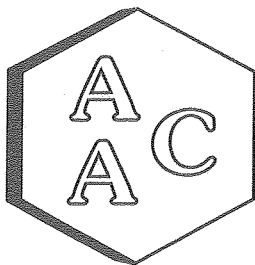
Continuing Calibration Verification of the 01/16/2017 Calibration

Compounds	Conc	Daily Conc	%REC*
Benzene	10.40	9.83	95
Carbon Tetrachloride	10.80	10.46	97
Cyclohexane	10.50	9.52	91
1,2-Dichloropropane	10.50	10.09	96
Bromodichloromethane	10.40	9.86	95
1,4-Dioxane	10.40	9.61	92
Trichloroethene (TCE)	10.40	9.84	95
2,2,4-Trimethylpentane	10.30	9.27	90
Heptane	10.40	9.70	93
cis-1,3-Dichloropropene	10.70	10.42	97
4-Methyl-2-pentanone (MiBK)	10.00	9.56	96
trans-1,3-Dichloropropene	10.00	9.67	97
1,1,2-Trichloroethane	10.40	9.89	95
Toluene	10.60	10.53	99
2-Hexanone (MBK)	10.80	10.73	99
Dibromochloromethane	9.90	9.84	99
1,2-Dibromoethane	10.40	10.07	97
Tetrachloroethene (PCE)	10.30	9.88	96
Chlorobenzene	10.50	10.07	96
Ethylbenzene	10.50	9.56	91
m & p-Xylenes	20.00	19.29	96
Bromoform	10.40	10.64	102
Styrene	10.30	9.95	97
1,1,2,2-Tetrachloroethane	10.40	10.36	100
o-Xylene	10.40	9.34	90
4-Ethyltoluene	10.00	9.63	96
1,3,5-Trimethylbenzene	10.00	9.56	96
1,2,4-Trimethylbenzene	9.90	9.48	96
Benzyl Chloride (a-Chlorotoluene)	9.60	9.57	100
1,3-Dichlorobenzene	9.60	9.04	94
1,4-Dichlorobenzene	9.80	9.27	95
1,2-Dichlorobenzene	9.70	9.19	95
1,2,4-Trichlorobenzene	8.80	8.51	97
Hexachlorobutadiene	9.30	9.03	97

* - %REC should be 70-130%


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

CLIENT ID : Laboratory Control Spike DATE ANALYZED : 02/08/2017
AAC ID : LCS/LCSD DATE REPORTED : 02/08/2017
MEDIA : Air UNITS : ppbv

TO-15 Laboratory Control Spike Recovery

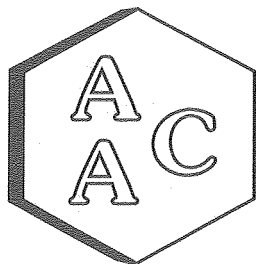
Compound	Sample Conc.	Spike Added	Spike Res	Dup Spike Res	Spike % Rec *	Spike Dup % Rec *	RPD**
1,1-Dichloroethene	0.0	10.80	10.21	10.11	95	94	1.0
Methylene Chloride (DCM)	0.0	10.50	9.96	10.30	95	98	3.4
Benzene	0.0	10.40	9.83	9.74	95	94	0.9
Trichloroethene (TCE)	0.0	10.40	9.84	9.88	95	95	0.4
Toluene	0.0	10.60	10.53	10.53	99	99	0.0
Tetrachloroethene (PCE)	0.0	10.30	9.88	9.95	96	97	0.7
Chlorobenzene	0.0	10.50	10.07	10.09	96	96	0.2
Ethylbenzene	0.0	10.50	9.56	9.69	91	92	1.4
m & p-Xylenes	0.0	20.00	19.29	19.45	96	97	0.8
o-Xylene	0.0	10.40	9.34	9.51	90	91	1.8

* Must be 70-130%

** Must be < 25%

Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

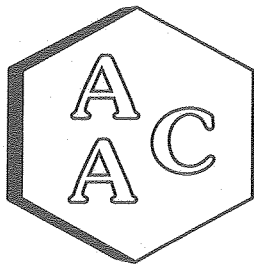
Method Blank Analysis Report

MATRIX : AIR ANALYSIS DATE : 02/08/2017
UNITS : ppbv REPORT DATE : 02/08/2017

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID AAC ID	Method Blank MB 020817	RL
Chlorodifluoromethane	<RL	0.5
Propene	<RL	1.0
Dichlorodifluoromethane	<RL	0.5
Chloromethane	<RL	0.5
Dichlorotetrafluoroethane	<RL	0.5
Vinyl Chloride	<RL	0.5
Methanol	<RL	5.0
1,3-Butadiene	<RL	0.5
Bromomethane	<RL	0.5
Chloroethane	<RL	0.5
Dichlorofluoromethane	<RL	0.5
Ethanol	<RL	2.0
Vinyl Bromide	<RL	0.5
Acetone	<RL	2.0
Trichlorofluoromethane	<RL	0.5
2-Propanol (IPA)	<RL	2.0
Acrylonitrile	<RL	1.0
1,1-Dichloroethene	<RL	0.5
Methylene Chloride (DCM)	<RL	1.0
Allyl Chloride	<RL	0.5
Carbon Disulfide	<RL	0.5
Trichlorotrifluoroethane	<RL	0.5
trans-1,2-Dichloroethene	<RL	0.5
1,1-Dichloroethane	<RL	0.5
Methyl Tert Butyl Ether (MTBE)	<RL	0.5
Vinyl Acetate	<RL	1.0
2-Butanone (MEK)	<RL	1.0
cis-1,2-Dichloroethene	<RL	0.5
Hexane	<RL	0.5
Chloroform	<RL	0.5
Ethyl Acetate	<RL	0.5
Tetrahydrofuran	<RL	0.5
1,2-Dichloroethane	<RL	0.5
1,1,1-Trichloroethane	<RL	0.5
Benzene	<RL	0.5
Carbon Tetrachloride	<RL	0.5
Cyclohexane	<RL	0.5
1,2-Dichloropropane	<RL	0.5
Bromodichloromethane	<RL	0.5
1,4-Dioxane	<RL	0.5
Trichloroethene (TCE)	<RL	0.5
2,2,4-Trimethylpentane	<RL	0.5
Heptane	<RL	0.5





Atmospheric Analysis & Consulting, Inc.

Method Blank Analysis Report

MATRIX : AIR ANALYSIS DATE : 02/08/2017
UNITS : ppbv REPORT DATE : 02/08/2017

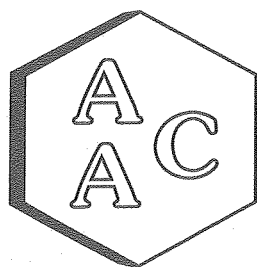
VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID AAC ID	Method Blank MB 020817	RL
cis-1,3-Dichloropropene	<RL	0.5
4-Methyl-2-pentanone (MiBK)	<RL	0.5
trans-1,3-Dichloropropene	<RL	0.5
1,1,2-Trichloroethane	<RL	0.5
Toluene	<RL	0.5
2-Hexanone (MBK)	<RL	0.5
Dibromochloromethane	<RL	0.5
1,2-Dibromoethane	<RL	0.5
Tetrachloroethene (PCE)	<RL	0.5
Chlorobenzene	<RL	0.5
Ethylbenzene	<RL	0.5
m & p-Xylenes	<RL	1.0
Bromoform	<RL	0.5
Styrene	<RL	0.5
1,1,2,2-Tetrachloroethane	<RL	0.5
o-Xylene	<RL	0.5
4-Ethyltoluene	<RL	0.5
1,3,5-Trimethylbenzene	<RL	0.5
1,2,4-Trimethylbenzene	<RL	0.5
Benzyl Chloride (a-Chlorotoluene)	<RL	0.5
1,3-Dichlorobenzene	<RL	0.5
1,4-Dichlorobenzene	<RL	0.5
1,2-Dichlorobenzene	<RL	0.5
1,2,4-Trichlorobenzene	<RL	0.5
Hexachlorobutadiene	<RL	0.5
System Monitoring Compounds		
BFB-Surrogate Std. % Recovery	98%	--

RL - Reporting Limit


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

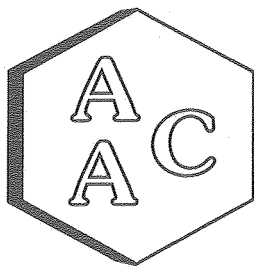
AAC ID : 170169-96691
MATRIX : Air

DATE ANALYZED : 02/08/2017
DATE REPORTED : 02/08/2017
UNITS : ppbv

TO-15 Duplicate Analysis

Compound	Sample Conc	Duplicate Conc	% RPD
Chlorodifluoromethane	1470	1470	0.0
Propene	5200	5270	1.3
Dichlorodifluoromethane	1690	1670	1.2
Chloromethane	<SRL	<SRL	0.0
Dichlorotetrafluoroethane	235	235	0.0
Vinyl Chloride	3980	3950	0.8
Methanol	<SRL	<SRL	0.0
1,3-Butadiene	<SRL	<SRL	0.0
Bromomethane	<SRL	<SRL	0.0
Chloroethane	774	781	0.9
Dichlorofluoromethane	298	296	0.7
Ethanol	6780	6740	0.6
Vinyl Bromide	<SRL	<SRL	0.0
Acetone	1470	1440	2.1
Trichlorofluoromethane	<SRL	<SRL	0.0
2-Propanol (IPA)	2160	2190	1.4
Acrylonitrile	<SRL	<SRL	0.0
1,1-Dichloroethene	<SRL	<SRL	0.0
Methylene Chloride (DCM)	2190	2190	0.0
Allyl Chloride	<SRL	<SRL	0.0
Carbon Disulfide	<SRL	<SRL	0.0
Trichlorotrifluoroethane	<SRL	<SRL	0.0
trans-1,2-Dichloroethene	137	138	0.7
1,1-Dichloroethane	2090	2110	1.0
Methyl Tert Butyl Ether (MTBE)	<SRL	<SRL	0.0
Vinyl Acetate	<SRL	<SRL	0.0
2-Butanone (MEK)	604	590	2.3
cis-1,2-Dichloroethene	1490	1470	1.4
Hexane	1300	1260	3.1
Chloroform	<SRL	<SRL	0.0
Ethyl Acetate	179	181	1.1
Tetrahydrofuran	<SRL	<SRL	0.0
1,2-Dichloroethane	<SRL	<SRL	0.0
1,1,1-Trichloroethane	<SRL	<SRL	0.0
Benzene	240	240	0.0
Carbon Tetrachloride	<SRL	<SRL	0.0





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

AAC ID : 170169-96691
MATRIX : Air

DATE ANALYZED : 02/08/2017
DATE REPORTED : 02/08/2017
UNITS : ppbv

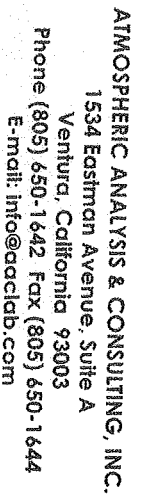
TO-15 Duplicate Analysis

Compound	Sample Conc	Duplicate Conc	% RPD
Cyclohexane	590	588	0.3
1,2-Dichloropropane	<SRL	<SRL	0.0
Bromodichloromethane	<SRL	<SRL	0.0
1,4-Dioxane	<SRL	<SRL	0.0
Trichloroethene (TCE)	268	269	0.4
2,2,4-Trimethylpentane	180	178	1.1
Heptane	345	348	0.9
cis-1,3-Dichloropropene	<SRL	<SRL	0.0
4-Methyl-2-pentanone (MiBK)	<SRL	<SRL	0.0
trans-1,3-Dichloropropene	<SRL	<SRL	0.0
1,1,2-Trichloroethane	<SRL	<SRL	0.0
Toluene	1040	1040	0.0
2-Hexanone (MBK)	<SRL	<SRL	0.0
Dibromochloromethane	<SRL	<SRL	0.0
1,2-Dibromoethane	<SRL	<SRL	0.0
Tetrachloroethene (PCE)	<SRL	<SRL	0.0
Chlorobenzene	<SRL	<SRL	0.0
Ethylbenzene	<SRL	<SRL	0.0
m & p-Xylenes	<SRL	<SRL	0.0
Bromoform	<SRL	<SRL	0.0
Styrene	<SRL	<SRL	0.0
1,1,2,2-Tetrachloroethane	<SRL	<SRL	0.0
o-Xylene	<SRL	<SRL	0.0
4-Ethyltoluene	<SRL	<SRL	0.0
1,3,5-Trimethylbenzene	<SRL	<SRL	0.0
1,2,4-Trimethylbenzene	<SRL	<SRL	0.0
Benzyl Chloride (a-Chlorotoluene)	<SRL	<SRL	0.0
1,3-Dichlorobenzene	<SRL	<SRL	0.0
1,4-Dichlorobenzene	<SRL	<SRL	0.0
1,2-Dichlorobenzene	<SRL	<SRL	0.0
1,2,4-Trichlorobenzene	<SRL	<SRL	0.0
Hexachlorobutadiene	<SRL	<SRL	0.0
System Monitoring Compounds			
BBFB-Surrogate Std. % Recovery	96%	97%	0.3

SRL - Sample Reporting Limit


Marcus Hueppe
Laboratory Director





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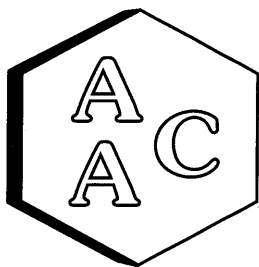
Page 5

Client Name

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Received by (signature): *[Signature]* Print Name: *John A. O'Connell* Date: *02/06/17* ID: *10-10*



Atmospheric Analysis & Consulting, Inc.

CLIENT : Focus Environmental
PROJECT NAME : Kuwahee Biogas Sampling
PROJECT NO. : PO 001208
AAC PROJECT NO. : 170179
REPORT DATE : 2/10/2017


On February 9, 2017, Atmospheric Analysis & Consulting, Inc. received one (1) Six-Liter Silonite Canister for Fixed Gases analysis by ASTM D-1946 and Total Reduced Sulfur analysis by ASTM D-5504. Upon receipt, the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab No.	Return Pressure (mmHg)
SC-020617-AAC	170179-96753	384.5

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

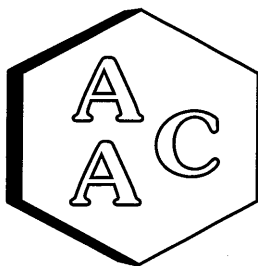
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of this sample. The Laboratory Director or his/her designee, as verified by the following signature,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

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


Marcus Hueppe
Laboratory Director

This report consists of 6 pages.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Focus Environmental
PROJECT NO. : 170179
MATRIX : AIR


SAMPLING DATE : 02/06/2017
RECEIVING DATE : 02/09/2017
ANALYSIS DATE : 02/09/2017
REPORT DATE : 02/10/2017

ASTM D-1946

Client ID	SC-020617-AAC
AAC ID	170179-96753
Can Dilution Factor	2.67
Analyte	Result
H ₂	< 2.7 %
O ₂	< 0.3 %
N ₂	0.9 %
CO	< 0.3 %
CO ₂	36.6 %
CH ₄	62.3 %

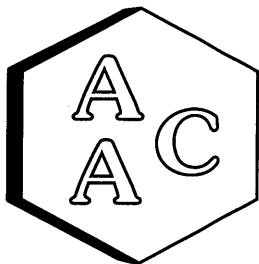
All fixed gases have been normalized to 100% on a dry weight basis

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



Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT


CLIENT : Focus Environmental
PROJECT NO. : 170179
MATRIX : AIR
UNITS : ppmV

SAMPLING DATE : 02/06/2017
RECEIVING DATE : 02/09/2017
ANALYSIS DATE : 02/09/2017
REPORT DATE : 02/10/2017

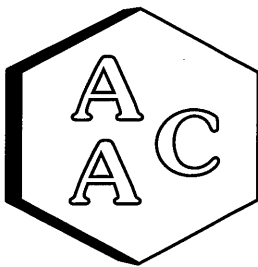
Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	SC-020617-AAC
AAC ID	170179-96753
Canister Dil. Fac.	2.7
Analyte	Result
Hydrogen Sulfide	25.0
Carbonyl Sulfide	< 0.133
Sulfur Dioxide	< 0.133
Methyl Mercaptan	< 0.133
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	< 0.133
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	22.7

All unidentified compound's concentrations expressed in terms of H₂S (TRS does not include COS and SO₂)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 02/09/2017
Analyst : CNG
Units : %

Instrument ID : TCD#1
Calb Date : 01/03/17
Reporting Limit : 0.1%

I - Opening Continuing Calibration Verification - EPA 3C

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
CCV	Spike Conc	10.0	10.0	20.2	10.1	10.0	10.2
	Result	10.2	11.5	23.3	10.7	10.3	10.4
	% Rec *	102.6	114.3	115.0	106.0	103.0	102.1

II - Method Blank - EPA 3C

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - EPA 3C

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	10.0	10.0	20.2	10.1	10.0	10.2
	LCS Result	9.6	11.3	21.4	9.7	9.4	9.6
	LCSD Result	9.9	11.4	21.8	9.7	9.6	9.7
	LCS % Rec *	95.8	112.9	105.9	96.4	94.4	94.1
	LCSD % Rec *	98.7	113.4	107.6	96.5	95.6	95.0
	% RPD ***	3.0	0.5	1.6	0.2	1.3	0.9

IV - Sample & Sample Duplicate - EPA 3C

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
170169-96691	Sample	0.0	0.0	4.3	20.7	30.2	0.0
	Sample Dup	0.0	0.0	4.0	19.7	28.7	0.0
	Mean	0.0	0.0	4.2	20.2	29.5	0.0
	% RPD ***	0.0	0.0	4.9	4.9	5.2	0.0

V - Matrix Spike & Duplicate - EPA 3C

AAC ID	Analyte	H ₂	N ₂	CO ₂	CH ₄	CO
170169-96691	Sample Conc	0.0	2.1	10.1	14.7	0.0
	Spike Conc	10.0	9.8	10.1	10.0	10.2
	MS Result	10.0	12.7	20.5	26.0	10.4
	MSD Result	9.8	11.4	18.6	24.0	9.3
	MS % Rec **	100.1	109.0	102.8	112.9	101.9
	MSD % Rec **	98.2	95.2	83.8	93.1	91.0
	% RPD ***	1.9	13.5	20.4	19.2	11.3

VI - Closing Continuing Calibration Verification - EPA 3C

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
CCV	Spike Conc	10.0	10.0	20.2	10.1	10.0	10.2
	Result	9.7	11.2	21.6	9.7	9.5	9.6
	% Rec *	97.0	111.6	106.7	96.6	94.7	94.3


* Must be 85-115%

** Must be 75-125%

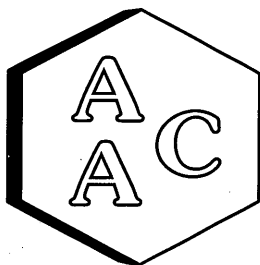
*** Must be < 25%

ND = Not Detected

<RL = less than Reporting Limit


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report ASTM D-5504

Date Analyzed: 2/9/2017
Analyst: ZB
Units: ppbV

Instrument ID: SCD#10
Calb. Date: 1/30/2017

Opening Calibration Verification Standard 525.5 ppbV H₂S (SS0971)

H ₂ S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	13775	515	97.9	0.8
Duplicate	13924	520	99.0	0.3
Triplicate	13959	521	99.2	0.5

549 ppbV MeSH (SS0988)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	13603	546	99.4	0.8
Duplicate	13872	557	101.4	1.2
Triplicate	13649	548	99.7	0.4

488.8 ppbV CS₂ (SS0972)

CS ₂	Resp. (area)	Result	% Rec *	% RPD ****
Initial	30378	505	103.4	0.6
Duplicate	30770	512	104.7	0.7
Triplicate	30531	508	103.9	0.1

Method Blank

Analyte	Result
H ₂ S	<PQL
MeSH	<PQL
CS ₂	<PQL

Duplicate Analysis

Sample ID 170169-96691

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H ₂ S	7844.3	8187.6	8015.9	4.3
MeSH	160.2	158.1	159.2	1.4
CS ₂	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate

Sample ID 170169-96691 x10

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H ₂ S	801.6	262.8	1021.1	1014.8	95.9	95.3	0.6
MeSH	15.9	274.5	299.1	290.9	103.0	100.2	2.8
CS ₂	<PQL	244.4	254.5	254.8	104.1	104.3	0.1

Closing Calibration Verification Standard


Analyte	Std. Conc.	Result	% Rec **
H ₂ S	525.5	518.1	98.6
MeSH	549.0	549.2	100.0
CS ₂	488.8	497.6	101.8

* Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.

H₂S: PQL = 10.0 ppbV, MDL = 1.51 ppbV

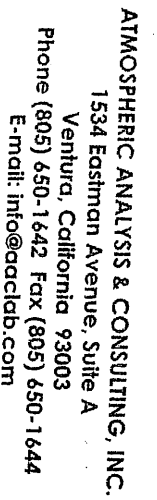
MeSH: PQL = 10.0 ppbV, MDL = 1.48 ppbV

CS₂: PQL = 10.0 ppbV, MDL = 1.44 ppbV


Marcus Hueppe
Laboratory Director

Page 5





Page of

CHAIN OF CUSTODY/ ANAL	
Client Name	Project Name
Focus Environmental	Kumabee Biegas Sampling
Project Mgr (Print Name)	Project Number
Paul Sadler	PD 001208
Sampler's Name (Print Name)	Sampler's Signature

Analysis Requested

Send report:

Attn: **Fay Zeller**

pasadler@focusenv.com

Phone#: (855) 992-8662

Fax# (865) 531-8851

Send invoice to:

Attn: Tall Jacket

P.O. # PD 0039

Turnaround Time

48-Hr

5 Day Normal ✓

Other (Specify)

Special Instructions/remarks:

Relinquished by (Signature):

Relinquished by (Signature):

Print Name: _____

Print Name: _____

02/06/17 9:45

Received by (signature):

Print Name _____

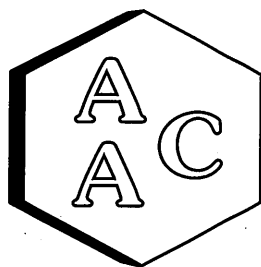
THE JOURNAL

Received by [illegible]

2155

PC-VIN 01/11/2011

0.5.43



Atmospheric Analysis & Consulting, Inc.

CLIENT : Focus Environmental
PROJECT NAME : Kuwahee Biogas Sampling
PROJECT NUMBER : PO 001208
AAC PROJECT NO. : 170179
REPORT DATE : 02/13/2017


On February 9, 2017, Atmospheric Analysis & Consulting, Inc. received one (1) Six-Liter Summa Canister for Siloxanes per EPA method TO-15. Upon receipt the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab ID	Return Pressure (mmHga)
SC-020617-AAC	170179-96753	384.5

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aacclab.com.

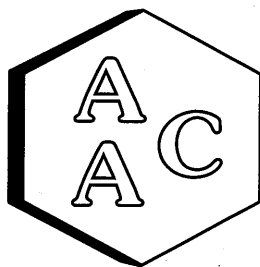
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Laboratory Director or his/her designee, as verified by the following signature,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

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


Marcus Hueppe
Laboratory Director

This report consists of 10 pages.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

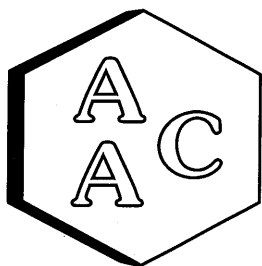
CLIENT : Focus Environmental
PROJECT NO : 170179
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 02/09/2017
DATE REPORTED : 02/13/2017

Client ID	SC-020617-AAC	
AAC ID	170179-96753	
Date Sampled	02/06/2017	
Date Analyzed	02/13/2017	
Can Dilution Factor	2.67	
SILOXANES		
Compound	PPB(V/V)	Sample Reporting Limit
Hexamethyldisiloxane (L2)	<SRL	26.7
Hexamethylcyclotrisiloxane (D3)	<SRL	26.7
Octamethyltrisiloxane (L3)	<SRL	26.7
Octamethylcyclotetrasiloxane (D4)	239	26.7
Decamethyltetrasiloxane (L4)	<SRL	26.7
Decamethylcyclopentasiloxane (D5)	378	26.7
Dodecamethylpentasiloxane (L5)	<SRL	26.7
BFB-Surrogate Std. % Recovery	99%	


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

ANALYSIS DATE : 02/13/2017

INSTRUMENT ID : GC/MS-03

ANALYST : JJG

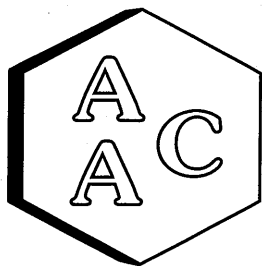
CALIBRATION STD ID : PS113016-03

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Continuing Calibration Verification of the 01/16/2017 Calibration

Compounds	Conc	Daily Conc	%REC*
4-BFB (surrogate standard)	10.00	10.03	100
Chlorodifluoromethane	10.40	10.58	102
Propene	10.90	10.66	98
Dichlorodifluoromethane	10.60	10.94	103
Chloromethane	10.30	9.75	95
Dichlorotetrafluoroethane	10.00	10.19	102
Vinyl Chloride	10.10	10.38	103
Methanol	19.00	20.46	108
1,3-Butadiene	10.50	9.82	94
Bromomethane	10.00	8.37	84
Chloroethane	9.70	9.81	101
Dichlorofluoromethane	10.60	10.73	101
Ethanol	9.10	9.13	100
Vinyl Bromide	10.10	10.11	100
Acetone	10.60	9.41	89
Trichlorofluoromethane	10.40	9.75	94
2-Propanol (IPA)	10.80	10.28	95
Acrylonitrile	11.50	11.07	96
1,1-Dichloroethene	10.80	10.40	96
Methylene Chloride (DCM)	10.50	10.15	97
Allyl Chloride	11.00	10.08	92
Carbon Disulfide	10.00	10.05	101
Trichlorotrifluoroethane	10.70	10.35	97
trans-1,2-Dichloroethene	10.10	9.79	97
1,1-Dichloroethane	10.50	10.27	98
Methyl Tert Butyl Ether (MTBE)	10.60	10.46	99
Vinyl Acetate	10.80	11.42	106
2-Butanone (MEK)	10.60	10.17	96
cis-1,2-Dichloroethene	10.60	10.25	97
Hexane	10.50	10.08	96
Chloroform	10.90	10.89	100
Ethyl Acetate	10.90	11.57	106
Tetrahydrofuran	10.50	10.07	96
1,2-Dichloroethane	10.60	10.70	101
1,1,1-Trichloroethane	10.60	10.47	99





Atmospheric Analysis & Consulting, Inc.

ANALYSIS DATE : 02/13/2017

INSTRUMENT ID : GC/MS-03

ANALYST : JJG


CALIBRATION STD ID : PS113016-03

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

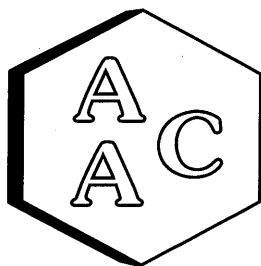
Continuing Calibration Verification of the 01/16/2017 Calibration

Compounds	Conc	Daily Conc	%REC*
Benzene	10.40	9.90	95
Carbon Tetrachloride	10.80	10.73	99
Cyclohexane	10.50	9.47	90
1,2-Dichloropropane	10.50	10.26	98
Bromodichloromethane	10.40	10.10	97
1,4-Dioxane	10.40	9.70	93
Trichloroethene (TCE)	10.40	10.10	97
2,2,4-Trimethylpentane	10.30	9.42	91
Heptane	10.40	9.76	94
cis-1,3-Dichloropropene	10.70	10.53	98
4-Methyl-2-pentanone (MiBK)	10.00	9.47	95
trans-1,3-Dichloropropene	10.00	10.27	103
1,1,2-Trichloroethane	10.40	10.07	97
Toluene	10.60	10.58	100
2-Hexanone (MBK)	10.80	10.84	100
Dibromochloromethane	9.90	9.95	101
1,2-Dibromoethane	10.40	10.09	97
Tetrachloroethene (PCE)	10.30	9.97	97
Chlorobenzene	10.50	9.95	95
Ethylbenzene	10.50	9.78	93
m & p-Xylenes	20.00	19.33	97
Bromoform	10.40	10.71	103
Styrene	10.30	10.07	98
1,1,2,2-Tetrachloroethane	10.40	10.47	101
o-Xylene	10.40	9.50	91
4-Ethyltoluene	10.00	9.65	97
1,3,5-Trimethylbenzene	10.00	9.66	97
1,2,4-Trimethylbenzene	9.90	9.56	97
Benzyl Chloride (a-Chlorotoluene)	9.60	9.72	101
1,3-Dichlorobenzene	9.60	9.24	96
1,4-Dichlorobenzene	9.80	9.43	96
1,2-Dichlorobenzene	9.70	9.51	98
1,2,4-Trichlorobenzene	8.80	8.54	97
Hexachlorobutadiene	9.30	9.13	98

* - %REC should be 70-130%


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

CLIENT ID : Laboratory Control Spike DATE ANALYZED : 02/13/2017
AAC ID : LCS/LCSD DATE REPORTED : 02/13/2017
MEDIA : Air UNITS : ppbv

TO-15 Laboratory Control Spike Recovery

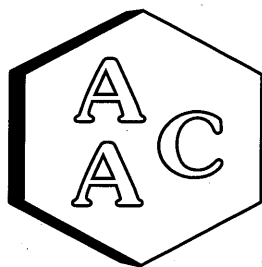
Compound	Sample Conc.	Spike Added	Spike Res	Dup Spike Res	Spike % Rec *	Spike Dup % Rec *	RPD**
1,1-Dichloroethene	0.0	10.80	10.40	10.44	96	97	0.4
Methylene Chloride (DCM)	0.0	10.50	10.15	10.16	97	97	0.1
Benzene	0.0	10.40	9.90	9.82	95	94	0.8
Trichloroethene (TCE)	0.0	10.40	10.10	9.80	97	94	3.0
Toluene	0.0	10.60	10.58	10.49	100	99	0.9
Tetrachloroethene (PCE)	0.0	10.30	9.97	9.84	97	96	1.3
Chlorobenzene	0.0	10.50	9.95	9.91	95	94	0.4
Ethylbenzene	0.0	10.50	9.78	9.65	93	92	1.3
m & p-Xylenes	0.0	20.00	19.33	19.08	97	95	1.3
o-Xylene	0.0	10.40	9.50	9.43	91	91	0.7

* Must be 70-130%

** Must be < 25%

Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

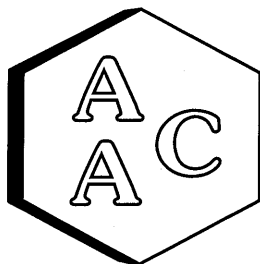
Method Blank Analysis Report

MATRIX : AIR ANALYSIS DATE : 02/13/2017
UNITS : ppbv REPORT DATE : 02/13/2017

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

<i>Client ID</i>	<i>Method Blank</i>	<i>RL</i>
<i>AAC ID</i>	<i>MB 021317</i>	
Chlorodifluoromethane	<RL	0.5
Propene	<RL	1.0
Dichlorodifluoromethane	<RL	0.5
Chloromethane	<RL	0.5
Dichlorotetrafluoroethane	<RL	0.5
Vinyl Chloride	<RL	0.5
Methanol	<RL	5.0
1,3-Butadiene	<RL	0.5
Bromomethane	<RL	0.5
Chloroethane	<RL	0.5
Dichlorofluoromethane	<RL	0.5
Ethanol	<RL	2.0
Vinyl Bromide	<RL	0.5
Acetone	<RL	2.0
Trichlorofluoromethane	<RL	0.5
2-Propanol (IPA)	<RL	2.0
Acrylonitrile	<RL	1.0
1,1-Dichloroethene	<RL	0.5
Methylene Chloride (DCM)	<RL	1.0
Allyl Chloride	<RL	0.5
Carbon Disulfide	<RL	0.5
Trichlorotrifluoroethane	<RL	0.5
trans-1,2-Dichloroethene	<RL	0.5
1,1-Dichloroethane	<RL	0.5
Methyl Tert Butyl Ether (MTBE)	<RL	0.5
Vinyl Acetate	<RL	1.0
2-Butanone (MEK)	<RL	1.0
cis-1,2-Dichloroethene	<RL	0.5
Hexane	<RL	0.5
Chloroform	<RL	0.5
Ethyl Acetate	<RL	0.5
Tetrahydrofuran	<RL	0.5
1,2-Dichloroethane	<RL	0.5
1,1,1-Trichloroethane	<RL	0.5
Benzene	<RL	0.5
Carbon Tetrachloride	<RL	0.5
Cyclohexane	<RL	0.5
1,2-Dichloropropane	<RL	0.5
Bromodichloromethane	<RL	0.5
1,4-Dioxane	<RL	0.5
Trichloroethene (TCE)	<RL	0.5
2,2,4-Trimethylpentane	<RL	0.5
Heptane	<RL	0.5





Atmospheric Analysis & Consulting, Inc.


Method Blank Analysis Report

MATRIX : AIR ANALYSIS DATE : 02/13/2017
UNITS : ppbv REPORT DATE : 02/13/2017

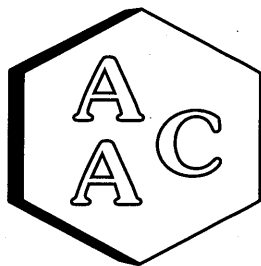
VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID AAC ID	Method Blank MB 021317	RL
cis-1,3-Dichloropropene	<RL	0.5
4-Methyl-2-pentanone (MiBK)	<RL	0.5
trans-1,3-Dichloropropene	<RL	0.5
1,1,2-Trichloroethane	<RL	0.5
Toluene	<RL	0.5
2-Hexanone (MBK)	<RL	0.5
Dibromochloromethane	<RL	0.5
1,2-Dibromoethane	<RL	0.5
Tetrachloroethene (PCE)	<RL	0.5
Chlorobenzene	<RL	0.5
Ethylbenzene	<RL	0.5
m & p-Xylenes	<RL	1.0
Bromoform	<RL	0.5
Styrene	<RL	0.5
1,1,2,2-Tetrachloroethane	<RL	0.5
o-Xylene	<RL	0.5
4-Ethyltoluene	<RL	0.5
1,3,5-Trimethylbenzene	<RL	0.5
1,2,4-Trimethylbenzene	<RL	0.5
Benzyl Chloride (a-Chlorotoluene)	<RL	0.5
1,3-Dichlorobenzene	<RL	0.5
1,4-Dichlorobenzene	<RL	0.5
1,2-Dichlorobenzene	<RL	0.5
1,2,4-Trichlorobenzene	<RL	0.5
Hexachlorobutadiene	<RL	0.5
System Monitoring Compounds		
BFB-Surrogate Std. % Recovery	96%	--

RL - Reporting Limit


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

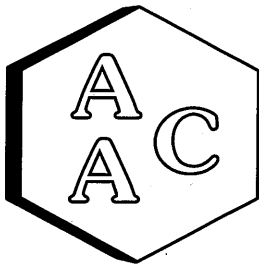
AAC ID : 170188-96820
MATRIX : Air

DATE ANALYZED : 02/13/2017
DATE REPORTED : 02/13/2017
UNITS : ppbv

TO-15 Duplicate Analysis

Compound	Sample Conc	Duplicate Conc	% RPD
Chlorodifluoromethane	245	233	5.0
Propene	1710	1590	7.3
Dichlorodifluoromethane	295	294	0.3
Chloromethane	<SRL	<SRL	0.0
Dichlorotetrafluoroethane	<SRL	<SRL	0.0
Vinyl Chloride	139	136	2.2
Methanol	2790	2800	0.4
1,3-Butadiene	<SRL	<SRL	0.0
Bromomethane	<SRL	<SRL	0.0
Chloroethane	116	116	0.0
Dichlorofluoromethane	<SRL	<SRL	0.0
Ethanol	7510	7320	2.6
Vinyl Bromide	<SRL	<SRL	0.0
Acetone	2430	2610	7.1
Trichlorofluoromethane	<SRL	<SRL	0.0
2-Propanol (IPA)	2050	2030	1.0
Acrylonitrile	<SRL	<SRL	0.0
1,1-Dichloroethene	<SRL	<SRL	0.0
Methylene Chloride (DCM)	<SRL	<SRL	0.0
Allyl Chloride	<SRL	<SRL	0.0
Carbon Disulfide	1230	1300	5.5
Trichlorotrifluoroethane	<SRL	<SRL	0.0
trans-1,2-Dichloroethene	<SRL	<SRL	0.0
1,1-Dichloroethane	<SRL	<SRL	0.0
Methyl Tert Butyl Ether (MTBE)	<SRL	<SRL	0.0
Vinyl Acetate	<SRL	<SRL	0.0
2-Butanone (MEK)	4030	4050	0.5
cis-1,2-Dichloroethene	178	185	3.9
Hexane	460	460	0.0
Chloroform	<SRL	<SRL	0.0
Ethyl Acetate	662	658	0.6
Tetrahydrofuran	2130	2180	2.3
1,2-Dichloroethane	102	99.0	3.0
1,1,1-Trichloroethane	<SRL	<SRL	0.0
Benzene	574	600	4.4
Carbon Tetrachloride	<SRL	<SRL	0.0





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

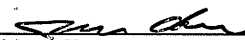
AAC ID : 170188-96820
MATRIX : Air

DATE ANALYZED : 02/13/2017
DATE REPORTED : 02/13/2017
UNITS : ppbv

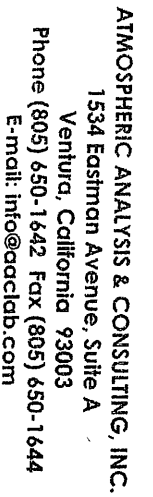
TO-15 Duplicate Analysis

Compound	Sample Conc	Duplicate Conc	% RPD
Cyclohexane	437	458	4.7
1,2-Dichloropropane	<SRL	<SRL	0.0
Bromodichloromethane	<SRL	<SRL	0.0
1,4-Dioxane	<SRL	<SRL	0.0
Trichloroethene (TCE)	79.1	79.9	1.0
2,2,4-Trimethylpentane	194	188	3.1
Heptane	1020	1010	1.0
cis-1,3-Dichloropropene	<SRL	<SRL	0.0
4-Methyl-2-pentanone (MiBK)	149	147	1.4
trans-1,3-Dichloropropene	<SRL	<SRL	0.0
1,1,2-Trichloroethane	<SRL	<SRL	0.0
Toluene	4070	3950	3.0
2-Hexanone (MBK)	<SRL	<SRL	0.0
Dibromochloromethane	<SRL	<SRL	0.0
1,2-Dibromoethane	<SRL	<SRL	0.0
Tetrachloroethene (PCE)	101	97.9	3.1
Chlorobenzene	<SRL	<SRL	0.0
Ethylbenzene	2250	2180	3.2
m & p-Xylenes	3380	3370	0.3
Bromoform	<SRL	<SRL	0.0
Styrene	134	136	1.5
1,1,2,2-Tetrachloroethane	<SRL	<SRL	0.0
o-Xylene	1170	1170	0.0
4-Ethyltoluene	189	186	1.6
1,3,5-Trimethylbenzene	264	255	3.5
1,2,4-Trimethylbenzene	567	562	0.9
Benzyl Chloride (a-Chlorotoluene)	<SRL	<SRL	0.0
1,3-Dichlorobenzene	<SRL	<SRL	0.0
1,4-Dichlorobenzene	171	170	0.6
1,2-Dichlorobenzene	<SRL	<SRL	0.0
1,2,4-Trichlorobenzene	<SRL	<SRL	0.0
Hexachlorobutadiene	<SRL	<SRL	0.0
System Monitoring Compounds			
BFB-Surrogate Std. % Recovery	101%	101%	0.2

SRL - Sample Reporting Limit


Marcus Hueppe
Laboratory Director





Page ८१

100

Attn: **Paul Sadler**
pasadler@focusenv.com
Phone#:(865) 692-8667
Fax#:(865) 531-8854

Attn: Paul Sadler
P.O. # PD 0039

P.O. # PD 0039

Turnaround Time
24-Hr _____ 48-Hr _____

5 Day _____ Normal ✓

Other (Specify) _____

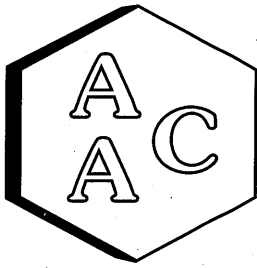
Special Instructions/remarks:

Print Name _____

Print Name _____

189/17 1300

Handwritten signature: *H. J. X*



Atmospheric Analysis & Consulting, Inc.

CLIENT : Focus Environmental
PROJECT NAME : Kuwahee Biogas Sampling
PROJECT NO. : PO 001208
AAC PROJECT NO. : 170276
REPORT DATE : 3/3/2017

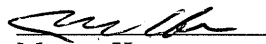
On March 2, 2017, Atmospheric Analysis & Consulting, Inc. received three (3) Tedlar Bags for Fixed Gases analysis by ASTM D-1946. Also received was one (1) Tedlar Bag for Total Reduced Sulfur analysis by ASTM D-5504. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab No.
TB-030117-D6	170276-97243
TB-030117-D4	170276-97244
TB-030117-D2	170276-97245
TB-030117-AAC	170276-97246

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

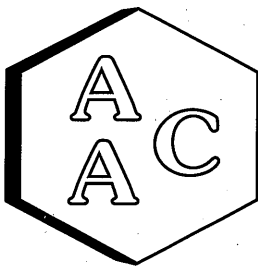
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Laboratory Director or his/her designee, as verified by the following signature,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

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


Marcus Hueppe
Laboratory Director

This report consists of 9 pages.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Focus Environmental
PROJECT NO. : 170276
MATRIX : AIR

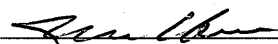
SAMPLING DATE : 03/01/2017
RECEIVING DATE : 03/02/2017
ANALYSIS DATE : 03/02/2017
REPORT DATE : 03/03/2017

ASTM D-1946

Client ID	TB-030117-D6	TB-030117-D4	TB-030117-D2
AAC ID	170276-97243	170276-97244	170276-97245
Analyte	Result	Result	Result
H ₂	< 1.0 %	< 1.0 %	< 1.0 %
O ₂	7.3 %	0.5 %	1.6 %
N ₂	26.7 %	2.1 %	5.6 %
CO	< 0.1 %	< 0.1 %	< 0.1 %
CO ₂	23.1 %	32.5 %	31.3 %
CH ₄	43.0 %	64.8 %	61.4 %

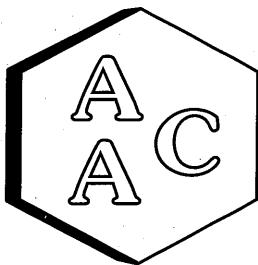
All fixed gases have been normalized to 100% on a dry weight basis

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



Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT


CLIENT : Focus Environmental
PROJECT NO. : 170276
MATRIX : AIR
UNITS : ppmV

SAMPLING DATE : 03/01/2017
RECEIVING DATE : 03/02/2017
ANALYSIS DATE : 03/02/2017
REPORT DATE : 03/03/2017

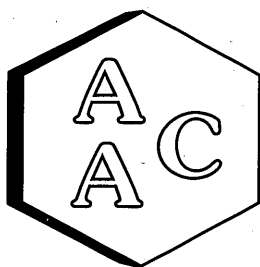
Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	TB-030117-AAC
AAC ID	170276-97246
Analyte	Result
Hydrogen Sulfide	21.0
Carbonyl Sulfide	< 0.050
Sulfur Dioxide	< 0.050
Methyl Mercaptan	< 0.050
Ethyl Mercaptan	0.051
Dimethyl Sulfide	< 0.050
Carbon Disulfide	< 0.050
Isopropyl Mercaptan	< 0.050
tert-Butyl Mercaptan	< 0.050
n-Propyl Mercaptan	0.125
Methylethylsulfide	< 0.050
sec-Butyl Mercaptan	< 0.050
Thiophene	< 0.050
iso-Butyl Mercaptan	< 0.050
Diethyl Sulfide	< 0.050
n-Butyl Mercaptan	< 0.050
Dimethyl Disulfide	< 0.050
2-Methylthiophene	< 0.050
3-Methylthiophene	< 0.050
Tetrahydrothiophene	< 0.050
Bromothiophene	< 0.050
Thiophenol	< 0.050
Diethyl Disulfide	< 0.050
Total Unidentified Sulfur	< 0.050
Total Reduced Sulfurs	21.2

All unidentified compound's concentrations expressed in terms of H₂S (TRS does not include COS and SO₂)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 03/02/2017
Analyst : CNG
Units : %

Instrument ID : TCD#1
Calb Date : 01/03/17
Reporting Limit : 0.1%

I - Opening Continuing Calibration Verification - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
CCV	Spike Conc	10.0	10.0	20.2	10.1	10.0	10.2
	Result	10.6	10.3	21.2	10.1	10.0	10.2
	% Rec *	105.9	102.2	104.8	100.5	100.2	100.4

II - Method Blank - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	10.0	10.0	20.2	10.1	10.0	10.2
	LCS Result	9.8	10.3	21.0	10.3	10.0	10.2
	LCSD Result	10.2	9.6	19.6	9.5	9.2	9.3
	LCS % Rec *	98.1	102.4	103.9	101.9	100.2	99.6
	LCSD % Rec *	101.9	96.0	96.8	94.4	91.9	91.6
	% RPD ***	3.8	6.5	7.0	7.7	8.6	8.4

IV - Sample & Sample Duplicate - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
170276-97243	Sample	0.0	7.8	28.4	24.4	45.7	0.0
	Sample Dup	0.0	7.2	26.5	23.2	42.9	0.0
	Mean	0.0	7.5	27.5	23.8	44.3	0.0
	% RPD ***	0.0	7.2	6.8	5.2	6.2	0.0

V - Matrix Spike & Duplicate - ASTM D-1945/1946

AAC ID	Analyte	H ₂	N ₂	CO ₂	CH ₄	CO
170276-97243	Sample Conc	0.0	13.7	11.9	22.1	0.0
	Spike Conc	10.0	9.8	10.1	10.0	10.2
	MS Result	10.3	25.1	21.8	32.9	11.0
	MSD Result	10.0	24.7	21.5	32.2	10.8
	MS % Rec **	103.0	116.6	98.2	108.0	107.9
	MSD % Rec **	100.2	112.0	94.9	101.2	106.2
	% RPD ***	2.8	4.0	3.4	6.5	1.6

VI - Closing Continuing Calibration Verification - ASTM D-1945/1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
CCV	Spike Conc	10.0	10.0	20.2	10.1	10.0	10.2
	Result	10.3	10.4	21.9	10.8	10.6	10.8
	% Rec *	103.4	103.3	108.0	107.0	106.2	106.4

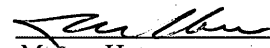
* Must be 85-115%

** Must be 75-125%

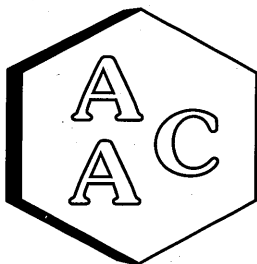
*** Must be < 25%

ND = Not Detected

<RL = less than Reporting Limit


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report ASTM D-5504

Date Analyzed: 3/2/2017
Analyst: ZB
Units: ppbV

Instrument ID: SCD#10
Calb. Date: 1/30/2017

Opening Calibration Verification Standard

525.5 ppbV H₂S (SS0971)

H ₂ S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	14028	524	99.7	0.1
Duplicate	13985	522	99.4	0.2
Triplicate	14011	523	99.6	0.0

549 ppbV MeSH (SS0988)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	13780	553	100.7	0.8
Duplicate	13581	545	99.3	0.6
Triplicate	13646	547	99.7	0.2

488.8 ppbV CS₂ (SS0972)

CS ₂	Resp. (area)	Result	% Rec *	% RPD ****
Initial	30772	512	104.7	0.7
Duplicate	30651	510	104.3	0.3
Triplicate	30219	503	102.8	1.1

Method Blank

Analyte	Result
H ₂ S	<PQL
MeSH	<PQL
CS ₂	<PQL

Duplicate Analysis

Sample ID 170263-97183

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H ₂ S	171945.4	164544.7	168245.1	4.4
MeSH	2636.0	2598.8	2617.4	1.4
CS ₂	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate

Sample ID 170263-97183 x200

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H ₂ S	841.2	262.8	1035.9	1136.3	93.8	102.9	9.2
MeSH	13.1	274.5	281.9	291.7	98.0	101.4	3.4
CS ₂	<PQL	244.4	249.5	253.2	102.1	103.6	1.5

Closing Calibration Verification Standard


Analyte	Std. Conc.	Result	% Rec **
H ₂ S	525.5	493.8	94.0
MeSH	549.0	521.7	95.0
CS ₂	488.8	487.5	99.7

* Must be 95-105%, ** Must be 90-110%, *** Must be <10%, **** Must be <5% RPD from Mean result.

H₂S: PQL = 10.0 ppbV, MDL = 1.51 ppbV

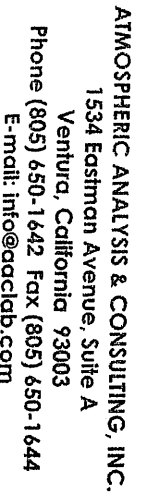
MeSH: PQL = 10.0 ppbV, MDL = 1.48 ppbV

CS₂: PQL = 10.0 ppbV, MDL = 1.44 ppbV


Marcus Hueppe
Laboratory Director

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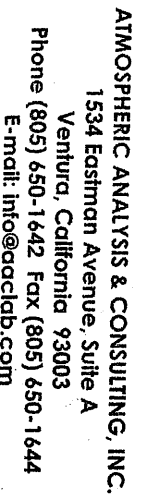




AAC Project No 170771

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client Name				Project Name		Analysis Requested		Send report to:	
Project Mgr (Print Name)				Project Number		Analysis Requested		Send report to:	
Sampler's Name (Print Name)				Sampler's Signature		Analysis Requested		Send report to:	
AAC	Date Sampled	Time Sampled	Sample Type	Client Sample ID/Description	Type/No. of Containers	Full Btu D3588		Attn: Paul Sadler	
Sample No.						Fixed Gas D1946		pasadler@focusenv.com	
						Reduced S/H D5504		Phone# (845) 692-8664	
						Siloxanes T0-15		Fax# (845) 531-8854	
977243	03/01/17	8:45	Grab	TB-030117-D6	TB 2	X		Send invoice to:	
								Attn: Paul Sadler	
								P.O. # P00039	
								Turnaround Time	
								24-Hr _____ 48-Hr _____	
								5 Day _____ Normal <input checked="" type="checkbox"/>	
								Other (Specify) _____	
								Special Instructions/remarks: _____	
Relinquished by (Signature):				Print Name:		Date/Time		Received by (Signature):	
Relinquished by (Signature):				Print Name:		Date/Time		Received by (Signature):	
Relinquished by (Signature):				Print Name:		Date/Time		Received by (Signature):	



AAC Project No. 17477-
Page 4

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ATMOSPHERIC ANALYSIS & CONSULTING, INC.
1534 Eastman Avenue, Suite A
Ventura, California 93003
Phone (805) 650-1642 Fax (805) 650-1644
E-mail: info@aacilab.com

AAC Project No 170276

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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

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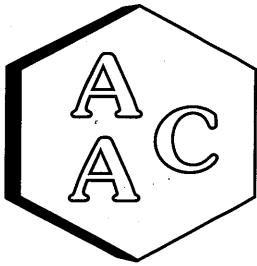
ATMOSPHERIC ANALYSIS & CONSULTING, INC.
1534 Eastman Avenue, Suite A
Ventura, California 93003
Phone (805) 650-1642 Fax (805) 650-1644
E-mail: info@aaclab.com

AAC Project No 1787.76

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Atmospheric Analysis & Consulting, Inc.

CLIENT : Focus Environmental
PROJECT NAME : Kuwahee Biogas Sampling
PROJECT NO. : PO 001208
AAC PROJECT NO. : 170289
REPORT DATE : 3/7/2017

On March 6, 2017, Atmospheric Analysis & Consulting, Inc. received one (1) Six-Liter Silonite Canister for Fixed Gases analysis by ASTM D-1946. Upon receipt, the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab No.	Return Pressure (mmHg)
SC-030117-AAC	170289-97304	335.9

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

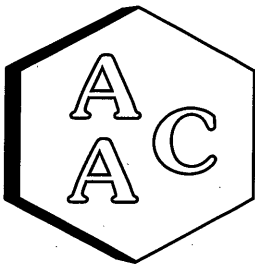
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of this sample. The Laboratory Director or his/her designee, as verified by the following signature,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

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

Marcus Hueppe
Laboratory Director

This report consists of 4 pages.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

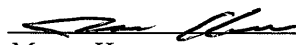
CLIENT : Focus Environmental
PROJECT NO. : 170289
MATRIX : AIR

SAMPLING DATE : 03/01/2017
RECEIVING DATE : 03/06/2017
ANALYSIS DATE : 03/07/2017
REPORT DATE : 03/07/2017

ASTM D-1946

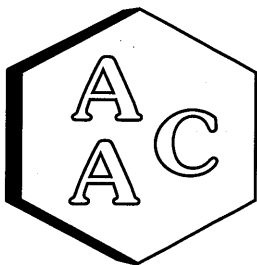
Client ID	SC-030117-AAC
AAC ID	170289-97304
Can Dilution Factor	3.11
Analyte	Result
H ₂	< 3.1 %
O ₂	< 0.3 %
N ₂	1.6 %
CO	< 0.3 %
CO ₂	37.1 %
CH ₄	61.0 %

All fixed gases have been normalized to 100% on a dry weight basis
Sample Reporting Limit (SRL) is equal to Reporting Limit x Analysis Dil. Fac x Canister Dil. Fac



Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 03/07/2017
Analyst : CNG
Units : %

Instrument ID : TCD#1
Calb Date : 01/03/17
Reporting Limit : 0.1%

I - Opening Continuing Calibration Verification - ASTM D-1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
CCV	Spike Conc	10.0	10.4	19.7	10.1	10.0	10.2
	Result	9.6	9.7	19.0	9.4	9.2	9.6
	% Rec *	96.6	94.0	96.1	93.3	92.6	94.1

II - Method Blank - ASTM D-1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - ASTM D-1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	10.0	10.4	19.7	10.1	10.0	10.2
	LCS Result	10.0	10.0	19.3	9.8	9.4	9.6
	LCSD Result	10.1	9.5	18.5	9.3	9.0	9.2
	LCS % Rec *	100.5	96.0	97.5	96.7	94.0	94.3
	LCSD % Rec *	100.9	91.8	93.7	92.6	90.3	90.4
	% RPD ***	0.3	4.5	4.0	4.3	4.0	4.3

IV - Sample & Sample Duplicate - ASTM D-1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
170289-97304	Sample	0.0	0.0	0.0	11.6	19.0	0.0
	Sample Dup	0.0	0.0	0.0	11.1	18.3	0.0
	Mean	0.0	0.0	0.0	11.3	18.6	0.0
	% RPD ***	0.0	0.0	0.0	3.9	3.8	0.0

V - Matrix Spike & Duplicate - ASTM D-1946

AAC ID	Analyte	H ₂	N ₂	CO ₂	CH ₄	CO
170289-97304	Sample Conc	0.0	0.0	5.7	9.3	0.0
	Spike Conc	10.0	9.8	10.1	10.0	10.2
	MS Result	9.9	10.1	15.3	18.7	9.9
	MSD Result	10.0	10.4	15.7	19.2	10.1
	MS % Rec **	99.1	104.0	95.6	93.7	96.9
	MSD % Rec **	99.7	106.4	99.7	99.0	99.0
	% RPD ***	0.6	2.3	4.2	5.6	2.2

VI - Closing Continuing Calibration Verification - ASTM D-1946

AAC ID	Analyte	H ₂	O ₂	N ₂	CO ₂	CH ₄	CO
CCV	Spike Conc	10.0	10.4	19.7	10.1	10.0	10.2
	Result	10.2	9.8	18.9	9.7	9.3	9.4
	% Rec *	101.9	94.6	96.0	96.2	92.8	92.5

* Must be 85-115%

** Must be 75-125%

*** Must be < 25%

ND = Not Detected

<RL = less than Reporting Limit


Marcus Hueppe
Laboratory Director



ATMOSPHERIC ANALYSIS & CONSULTING, INC.
1534 Eastman Avenue, Suite A
Ventura, California 93003
Phone (805) 650-1642 Fax (805) 650-1644
E-mail: info@aacclab.com

AAC Project No. 1702-P9

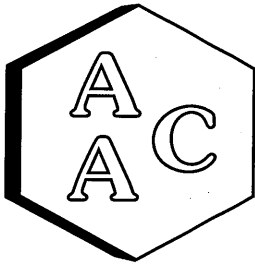
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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

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Atmospheric Analysis & Consulting, Inc.

CLIENT : Focus Environmental
PROJECT NAME : Kuwahee Biogas Sampling
PROJECT NUMBER : PO 001208
AAC PROJECT NO. : 170289
REPORT DATE : 03/08/2017


On March 6, 2017, Atmospheric Analysis & Consulting, Inc. received one (1) Six-Liter Summa Canister for Siloxanes per EPA method TO-15. Upon receipt the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab ID	Return Pressure (mmHga)
SC-030117-AAC	170289-97304	335.9

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aacclab.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 Laboratory Director or his/her designee, as verified by the following signature, has authorized release of the data contained in this hardcopy report.

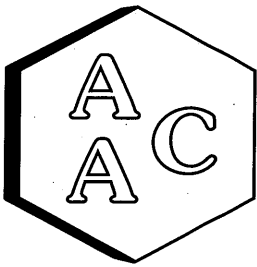
If you have any questions or require further explanation of data results, please contact the undersigned.



Marcus Hueppe
Laboratory Director

This report consists of 10 pages.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

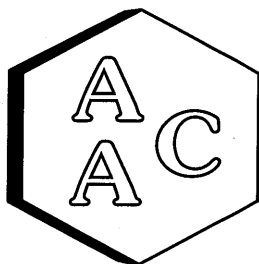
CLIENT : Focus Environmental
PROJECT NO : 170289
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 03/06/2017
DATE REPORTED : 03/08/2017

<i>Client ID</i>	SC-030117-AAC	
<i>AAC ID</i>	170289-97304	
<i>Date Sampled</i>	03/01/2017	
<i>Date Analyzed</i>	03/08/2017	
<i>Can Dilution Factor</i>	3.11	
SILOXANES		
<i>Compound</i>	<i>PPB(V/V)</i>	<i>Sample Reporting Limit</i>
Hexamethyldisiloxane (L2)	<SRL	31.1
Hexamethylcyclotrisiloxane (D3)	61.4	31.1
Octamethyltrisiloxane (L3)	<SRL	31.1
Octamethylcyclotetrasiloxane (D4)	360	31.1
Decamethyltetrasiloxane (L4)	<SRL	31.1
Decamethylcyclopentasiloxane (D5)	335	31.1
Dodecamethylpentasiloxane (L5)	<SRL	31.1
BFB-Surrogate Std. % Recovery	99%	


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

ANALYSIS DATE : 03/08/2017

INSTRUMENT ID : GC/MS-03

ANALYST : JJG

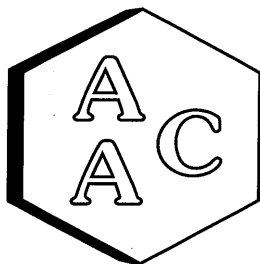
CALIBRATION STD ID : PS011817-01

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Continuing Calibration Verification of the 01/16/2017 Calibration

Compounds	Conc	Daily Conc	%REC*
4-BFB (surrogate standard)	10.00	10.29	103
Chlorodifluoromethane	10.40	10.33	99
Propene	10.90	10.82	99
Dichlorodifluoromethane	10.60	10.56	100
Chloromethane	10.30	9.70	94
Dichlorotetrafluoroethane	10.00	9.57	96
Vinyl Chloride	10.10	9.83	97
Methanol	19.00	19.57	103
1,3-Butadiene	10.50	9.78	93
Bromomethane	10.00	9.85	99
Chloroethane	9.70	9.71	100
Dichlorofluoromethane	10.60	10.46	99
Ethanol	9.10	9.26	102
Vinyl Bromide	10.10	10.08	100
Acetone	10.60	8.91	84
Trichlorofluoromethane	10.40	9.48	91
2-Propanol (IPA)	10.80	10.78	100
Acrylonitrile	11.50	10.87	95
1,1-Dichloroethene	10.80	10.14	94
Methylene Chloride (DCM)	10.50	10.00	95
Allyl Chloride	11.00	10.70	97
Carbon Disulfide	10.00	10.24	102
Trichlorotrifluoroethane	10.70	10.29	96
trans-1,2-Dichloroethene	10.10	10.01	99
1,1-Dichloroethane	10.50	10.19	97
Methyl Tert Butyl Ether (MTBE)	10.60	10.13	96
Vinyl Acetate	10.80	11.16	103
2-Butanone (MEK)	10.60	10.45	99
cis-1,2-Dichloroethene	10.60	10.38	98
Hexane	10.50	10.31	98
Chloroform	10.90	10.66	98
Ethyl Acetate	10.90	11.15	102
Tetrahydrofuran	10.50	10.27	98
1,2-Dichloroethane	10.60	10.35	98
1,1,1-Trichloroethane	10.60	10.15	96





Atmospheric Analysis & Consulting, Inc.

ANALYSIS DATE : 03/08/2017
ANALYST : JJG

INSTRUMENT ID : GC/MS-03
CALIBRATION STD ID : PS011817-01

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

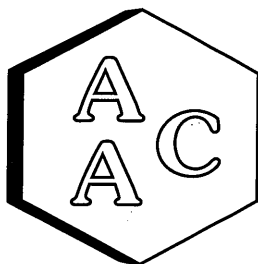
Continuing Calibration Verification of the 01/16/2017 Calibration

Compounds	Conc	Daily Conc	%REC*
Benzene	10.40	10.35	100
Carbon Tetrachloride	10.80	11.13	103
Cyclohexane	10.50	10.03	96
1,2-Dichloropropane	10.50	10.62	101
Bromodichloromethane	10.40	10.64	102
1,4-Dioxane	10.40	10.09	97
Trichloroethene (TCE)	10.40	10.46	101
2,2,4-Trimethylpentane	10.30	9.47	92
Heptane	10.40	10.31	99
cis-1,3-Dichloropropene	10.70	10.96	102
4-Methyl-2-pentanone (MiBK)	10.00	9.92	99
trans-1,3-Dichloropropene	10.00	10.57	106
1,1,2-Trichloroethane	10.40	10.46	101
Toluene	10.60	10.80	102
2-Hexanone (MBK)	10.80	11.04	102
Dibromochloromethane	9.90	10.50	106
1,2-Dibromoethane	10.40	10.49	101
Tetrachloroethene (PCE)	10.30	10.38	101
Chlorobenzene	10.50	10.30	98
Ethylbenzene	10.50	9.64	92
m & p-Xylenes	20.00	19.83	99
Bromoform	10.40	11.37	109
Styrene	10.30	10.08	98
1,1,2,2-Tetrachloroethane	10.40	10.66	103
o-Xylene	10.40	9.44	91
4-Ethyltoluene	10.00	9.93	99
1,3,5-Trimethylbenzene	10.00	9.84	98
1,2,4-Trimethylbenzene	9.90	9.87	100
Benzyl Chloride (a-Chlorotoluene)	9.60	9.34	97
1,3-Dichlorobenzene	9.60	9.10	95
1,4-Dichlorobenzene	9.80	9.32	95
1,2-Dichlorobenzene	9.70	9.39	97
1,2,4-Trichlorobenzene	8.80	8.13	92
Hexachlorobutadiene	9.30	8.90	96

* - %REC should be 70-130%


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report


CLIENT ID : Laboratory Control Spike DATE ANALYZED : 03/08/2017
AAC ID : LCS/LCSD DATE REPORTED : 03/08/2017
MEDIA : Air UNITS : ppbv

TO-15 Laboratory Control Spike Recovery

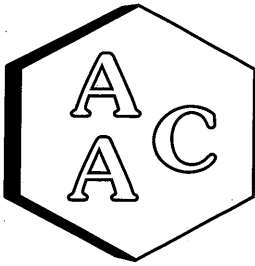
Compound	Sample Conc.	Spike Added	Spike Res	Dup Spike Res	Spike % Rec *	Spike Dup % Rec *	RPD**
1,1-Dichloroethene	0.0	10.80	10.14	10.34	94	96	2.0
Methylene Chloride (DCM)	0.0	10.50	10.00	10.26	95	98	2.6
Benzene	0.0	10.40	10.35	10.39	100	100	0.4
Trichloroethene (TCE)	0.0	10.40	10.46	10.34	101	99	1.2
Toluene	0.0	10.60	10.80	10.85	102	102	0.5
Tetrachloroethene (PCE)	0.0	10.30	10.38	10.45	101	101	0.7
Chlorobenzene	0.0	10.50	10.30	10.64	98	101	3.2
Ethylbenzene	0.0	10.50	9.64	9.70	92	92	0.6
m & p-Xylenes	0.0	20.00	19.83	20.11	99	101	1.4
o-Xylene	0.0	10.40	9.44	9.57	91	92	1.4

* Must be 70-130%

** Must be < 25%


Marcus Hueppe
Laboratory Director





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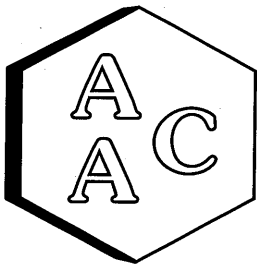
Method Blank Analysis Report

MATRIX : AIR ANALYSIS DATE : 03/08/2017
UNITS : ppbv REPORT DATE : 03/08/2017

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID AAC ID	Method Blank MB 030817	RL
Chlorodifluoromethane	<RL	0.5
Propene	<RL	1.0
Dichlorodifluoromethane	<RL	0.5
Chloromethane	<RL	0.5
Dichlorotetrafluoroethane	<RL	0.5
Vinyl Chloride	<RL	0.5
Methanol	<RL	5.0
1,3-Butadiene	<RL	0.5
Bromomethane	<RL	0.5
Chloroethane	<RL	0.5
Dichlorofluoromethane	<RL	0.5
Ethanol	<RL	2.0
Vinyl Bromide	<RL	0.5
Acetone	<RL	2.0
Trichlorofluoromethane	<RL	0.5
2-Propanol (IPA)	<RL	2.0
Acrylonitrile	<RL	1.0
1,1-Dichloroethene	<RL	0.5
Methylene Chloride (DCM)	<RL	1.0
Allyl Chloride	<RL	0.5
Carbon Disulfide	<RL	0.5
Trichlorotrifluoroethane	<RL	0.5
trans-1,2-Dichloroethene	<RL	0.5
1,1-Dichloroethane	<RL	0.5
Methyl Tert Butyl Ether (MTBE)	<RL	0.5
Vinyl Acetate	<RL	1.0
2-Butanone (MEK)	<RL	1.0
cis-1,2-Dichloroethene	<RL	0.5
Hexane	<RL	0.5
Chloroform	<RL	0.5
Ethyl Acetate	<RL	0.5
Tetrahydrofuran	<RL	0.5
1,2-Dichloroethane	<RL	0.5
1,1,1-Trichloroethane	<RL	0.5
Benzene	<RL	0.5
Carbon Tetrachloride	<RL	0.5
Cyclohexane	<RL	0.5
1,2-Dichloropropane	<RL	0.5
Bromodichloromethane	<RL	0.5
1,4-Dioxane	<RL	0.5
Trichloroethene (TCE)	<RL	0.5
2,2,4-Trimethylpentane	<RL	0.5
Heptane	<RL	0.5





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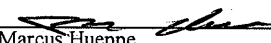
Method Blank Analysis Report

MATRIX : AIR ANALYSIS DATE : 03/08/2017
UNITS : ppbv REPORT DATE : 03/08/2017

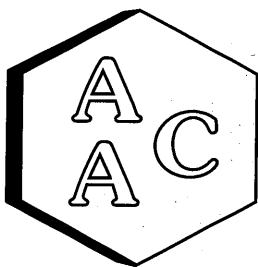
VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID AAC ID	Method Blank MB 030817	RL
cis-1,3-Dichloropropene	<RL	0.5
4-Methyl-2-pentanone (MiBK)	<RL	0.5
trans-1,3-Dichloropropene	<RL	0.5
1,1,2-Trichloroethane	<RL	0.5
Toluene	<RL	0.5
2-Hexanone (MBK)	<RL	0.5
Dibromochloromethane	<RL	0.5
1,2-Dibromoethane	<RL	0.5
Tetrachloroethene (PCE)	<RL	0.5
Chlorobenzene	<RL	0.5
Ethylbenzene	<RL	0.5
m & p-Xylenes	<RL	1.0
Bromoform	<RL	0.5
Styrene	<RL	0.5
1,1,2,2-Tetrachloroethane	<RL	0.5
o-Xylene	<RL	0.5
4-Ethyltoluene	<RL	0.5
1,3,5-Trimethylbenzene	<RL	0.5
1,2,4-Trimethylbenzene	<RL	0.5
Benzyl Chloride (a-Chlorotoluene)	<RL	0.5
1,3-Dichlorobenzene	<RL	0.5
1,4-Dichlorobenzene	<RL	0.5
1,2-Dichlorobenzene	<RL	0.5
1,2,4-Trichlorobenzene	<RL	0.5
Hexachlorobutadiene	<RL	0.5
System Monitoring Compounds		
BFB-Surrogate Std. % Recovery	97%	--

RL - Reporting Limit


Marcus Hueppe
Laboratory Director





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

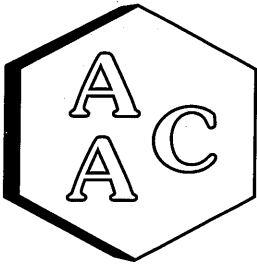
AAC ID : 170293-97353
MATRIX : Air

DATE ANALYZED : 03/08/2017
DATE REPORTED : 03/08/2017
UNITS : ppbv

TO-15 Duplicate Analysis

Compound	Sample Conc	Duplicate Conc	% RPD
Chlorodifluoromethane	<SRL	<SRL	0.0
Propene	<SRL	<SRL	0.0
Dichlorodifluoromethane	0.63	0.62	1.6
Chloromethane	0.70	0.70	0.0
Dichlorotetrafluoroethane	<SRL	<SRL	0.0
Vinyl Chloride	<SRL	<SRL	0.0
Methanol	5.41	5.43	0.4
1,3-Butadiene	<SRL	<SRL	0.0
Bromomethane	<SRL	<SRL	0.0
Chloroethane	<SRL	<SRL	0.0
Dichlorofluoromethane	<SRL	<SRL	0.0
Ethanol	<SRL	<SRL	0.0
Vinyl Bromide	<SRL	<SRL	0.0
Acetone	<SRL	<SRL	0.0
Trichlorofluoromethane	<SRL	<SRL	0.0
2-Propanol (IPA)	<SRL	<SRL	0.0
Acrylonitrile	<SRL	<SRL	0.0
1,1-Dichloroethene	<SRL	<SRL	0.0
Methylene Chloride (DCM)	<SRL	<SRL	0.0
Allyl Chloride	<SRL	<SRL	0.0
Carbon Disulfide	<SRL	<SRL	0.0
Trichlorotrifluoroethane	<SRL	<SRL	0.0
trans-1,2-Dichloroethene	<SRL	<SRL	0.0
1,1-Dichloroethane	<SRL	<SRL	0.0
Methyl Tert Butyl Ether (MTBE)	<SRL	<SRL	0.0
Vinyl Acetate	<SRL	<SRL	0.0
2-Butanone (MEK)	<SRL	<SRL	0.0
cis-1,2-Dichloroethene	<SRL	<SRL	0.0
Hexane	<SRL	<SRL	0.0
Chloroform	<SRL	<SRL	0.0
Ethyl Acetate	<SRL	<SRL	0.0
Tetrahydrofuran	<SRL	<SRL	0.0
1,2-Dichloroethane	<SRL	<SRL	0.0
1,1,1-Trichloroethane	<SRL	<SRL	0.0
Benzene	<SRL	<SRL	0.0
Carbon Tetrachloride	<SRL	<SRL	0.0






Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

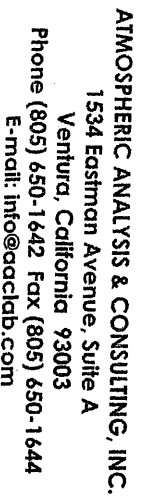
AAC ID : 170293-97353 DATE ANALYZED : 03/08/2017
MATRIX : Air DATE REPORTED : 03/08/2017
UNITS : ppbv

TO-15 Duplicate Analysis

Compound	Sample Conc	Duplicate Conc	% RPD
Cyclohexane	<SRL	<SRL	0.0
1,2-Dichloropropane	<SRL	<SRL	0.0
Bromodichloromethane	<SRL	<SRL	0.0
1,4-Dioxane	<SRL	<SRL	0.0
Trichloroethene (TCE)	<SRL	<SRL	0.0
2,2,4-Trimethylpentane	<SRL	<SRL	0.0
Heptane	<SRL	<SRL	0.0
cis-1,3-Dichloropropene	<SRL	<SRL	0.0
4-Methyl-2-pentanone (MiBK)	<SRL	<SRL	0.0
trans-1,3-Dichloropropene	<SRL	<SRL	0.0
1,1,2-Trichloroethane	<SRL	<SRL	0.0
Toluene	<SRL	<SRL	0.0
2-Hexanone (MBK)	<SRL	<SRL	0.0
Dibromochloromethane	<SRL	<SRL	0.0
1,2-Dibromoethane	<SRL	<SRL	0.0
Tetrachloroethene (PCE)	<SRL	<SRL	0.0
Chlorobenzene	<SRL	<SRL	0.0
Ethylbenzene	<SRL	<SRL	0.0
m & p-Xylenes	<SRL	<SRL	0.0
Bromoform	<SRL	<SRL	0.0
Styrene	<SRL	<SRL	0.0
1,1,2,2-Tetrachloroethane	<SRL	<SRL	0.0
o-Xylene	<SRL	<SRL	0.0
4-Ethyltoluene	<SRL	<SRL	0.0
1,3,5-Trimethylbenzene	<SRL	<SRL	0.0
1,2,4-Trimethylbenzene	<SRL	<SRL	0.0
Benzyl Chloride (a-Chlorotoluene)	<SRL	<SRL	0.0
1,3-Dichlorobenzene	<SRL	<SRL	0.0
1,4-Dichlorobenzene	<SRL	<SRL	0.0
1,2-Dichlorobenzene	<SRL	<SRL	0.0
1,2,4-Trichlorobenzene	<SRL	<SRL	0.0
Hexachlorobutadiene	<SRL	<SRL	0.0
System Monitoring Compounds			
BFB-Surrogate Std. % Recovery	97%	96%	0.9
SRL - Sample Reporting Limit			


Marcus Hueppe
Laboratory Director





Page of

Client Name

Project Name Kinjal
Project Number

Project Number Kinnahoe Bigas Sampling

Analysis Requested

Send reports:

Project Number
PO 001208

Sampler's Signature
PA

Type/No. of

Full Btu
D3588
Fixed Gas
D1946
Reduced S/L
D5504
Siloxanes
T0-15

Attn: **Paul Sadler**
pasadler@focusenv.com
Phone#:(865) 692-8667
Fax#:(865) 531-8854

Send invoice to:

$$\frac{1}{sc}$$

X

X

Attn: Paul Saeffer

P.O. # PD 0039

Turnaround time

24-Hr **48-Hr**

5 Day _____ Normal ✓

Other (Specify)

Special Instructions/remarks:

Notes/Tips:

200

57

Received by (signature):

Print Name _____

Relinquished by (Signature):

Print Name:

03/01/11

15

1/500

~~INVESTIGATOR~~

BRYAN DANIELIN

3.1-17 12:20

2/10/17

NAME _____

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IX can. 15/4