



# DANE COUNTY DEPARTMENT OF WASTE AND RENEWABLES

County Executive  
Joseph T. Parisi

1919 Alliant Energy Center Way ♦ Madison, Wisconsin 53713  
Phone: (608) 266-4018 ♦ Fax: (608) 267-1533

Director  
John Welch P.E.

OCTOBER 7, 2022

**ATTENTION ALL REQUEST FOR PROPOSAL (RFP) HOLDERS**

**RFP NO. 322042 - ADDENDUM NO. 1**

**PRIMARY H<sub>2</sub>S SYSTEM UPGRADE DANE COUNTY RNG PLANT**

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**PROPOSALS DUE**: TUESDAY, OCTOBER 25, 2022, 2:00 PM.  
DUE DATE AND TIME **ARE NOT** CHANGED BY THIS ADDENDUM

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This Addendum is issued to modify, explain or clarify the original Request for Proposal (RFP) and is hereby made a part of the RFP. **Proposers must acknowledge this addendum on the Signature Page and submit with Proposal as outlined in the RFP Cover Letter.**

**PLEASE MAKE THE FOLLOWING CHANGES:**

**1. GENERAL**

Enclosed are the facility tour meeting agenda and Personal Protective Equipment Policy (Attachment A and B) applicable to optional site visit October 11<sup>th</sup>.

**PLEASE NOTE THE FOLLOWING PROPOSER SUBMITTED QUESTIONS:**

Question 1: Is [there] a cost estimate or budget and anticipated start and end dates for the work involved in the construction of the Primary H<sub>2</sub>S Treatment System Upgrade Project?

*Answer 1: Dane County is not sharing budget expectations for the procurement of H<sub>2</sub>S treatment system or full replacement project. The start and end dates for system fabrication are not set and requested in RFP response.*

Question 2: We work with ... for bulk removal of H<sub>2</sub>S. They currently have two systems installed and running and two more currently delivered and getting installed but not started up yet. We are just wondering if this will eliminate ... from qualifying?

*Answer 2: Please respond to RFP and describe progress or anticipated commissioning of 3rd system for clarification. Dane County will consider the proposal.*

*Proposals from firms not meeting minimum experience requirements may be considered by Dane County and reflected in scoring for Experience.*

Question 3: We would like to ask for a two-week extension of the bid due date in order to get firm pricing from all our suppliers.

*Answer 3: Dane County rejects the request for extension of due date at this time. Specific major equipment or work items without firm pricing shall be declared in bid clarifications.*

*Firms should minimize the number of items without a firm price and shall provide guaranteed minimum and maximum price range for those specific items.*

Question 4: Please provide a VOC analysis of the landfill gas to be treated.

*Answer 3: Please see Attachment C for landfill gas VOC analysis. Analysis is accurate and representative of landfill gas at time of sampling. Actual VOC in landfill gas is subject to change over time.*

**Enclosures**

Attachment A. Facility Tour Meeting Agenda  
Attachment B. Facility Tour PPE Policy  
Attachment C. Landfill Gas VOC Analysis

If any additional information about this Addendum is needed, please contact Michael Wyrick at (608) 405-9230, or [Wyrick.Michael@countyofdane.com](mailto:Wyrick.Michael@countyofdane.com).

Sincerely,

*Michael Wyrick*

Project Manager

Attachment A. Facility Tour Meeting Attendance



# DANE COUNTY DEPT. OF WASTE & RENEWABLES

1919 Alliant Energy Center Way  
Madison, Wisconsin 53713  
Office: 608/266-4018 ♦ Fax: 608/267-1533

## RFP TOUR MEETING

### Renewable Natural Gas Plant Primary H2S Treatment System Upgrade Madison, Wisconsin

Bid No. 322042

October 11, 2022  
9 a.m. – 11 a.m.

**Tour Lead:** Michael Wyrick, Dane County Department of Waste & Renewables Project Engineer

**Minutes:** Lindsey Carlson, Dane County Department of Waste & Renewables Biogas Specialist

### RFP TOUR AGENDA

**Date & Time:** October 11, 2022

**Facilitator Lead:** Michael Wyrick, Project Engineer

**Note Taker Lead:** Lindsey Carlson, Biogas Specialist

**Location:** Dane County Department of Waste & Renewables (W&R) RNG Plant  
7102 US HWY 12 & 18 Madison, WI 53718

Enter off highway and immediately stay to right, following sign for RNG Plant.

<u>Agenda Item</u>	<u>Time Anticipated</u>
<b>Welcome, Introductions, Safety</b> <ul style="list-style-type: none"> <li>Meet at RNG Plant controlled access gate; Follow W&amp;R staff to RNG Plant Work Trailer</li> <li>Sign – In / Introductions</li> <li>Safety Orientation – <b>ATTENDEES ARE EXPECTED TO ADHERE TO THE “MINIMUM PPE REQUIREMENTS MEMORANDUM” DATED 9/15/2022</b></li> </ul>	15 mins (9am - 9:15am)
<b>Pretour Discussion / Overview</b> <ul style="list-style-type: none"> <li>Site Plan</li> <li>RFP Documents</li> </ul>	15 mins (9:15am - 9:30am)
<b>Tour</b> <ul style="list-style-type: none"> <li>General overview of plant</li> <li>Tour Biological Desulfurization System, discuss current process</li> <li>Review footprint considerations</li> </ul>	45 mins (9:30am - 10:15am)
<b>Questions</b> <ul style="list-style-type: none"> <li></li> </ul>	35 mins (10:15am - 10:50am)
<b>Closing / Sign Out</b> <ul style="list-style-type: none"> <li>Return PPE (gas monitors, etc)</li> <li>Sign Out</li> </ul>	10 mins (10:50am -11am)



Attachment B. Facility Tour PPE Policy



**TO:** ALL SITE PERSONNEL INCLUDING STAFF, CONTRACTORS, VENDORS, AND VISITORS  
**FROM:** Kyle Anderson  
**RE:** RNG Plant - Minimum PPE Requirements  
**DATE:** 9/15/2022

## **RNG Plant Minimum PPE Requirements**

This memo is to communicate that Dane County Department of Waste & Renewables has updated its Personal Protective Equipment (PPE) requirements. **EFFECTIVE 9/15/2022** ALL PERSONNEL ENTERING THE PERIMETER FENCE OF THE RNG PLANT ARE EXPECTED TO MEET THE PPE REQUIREMENTS AS LISTED BELOW.

(Contractors, vendors, and visitors are encouraged to provide their own PPE, but items listed below are available to check out from the RNG Plant Office Trailer, excluding footwear)

### **Minimum PPE required within perimeter fence of the RNG Plant:**

- **Personal 4-Gas Meter** capable of sensing LEL, CO<sub>2</sub>, H<sub>2</sub>S, and O<sub>2</sub>
- **Flame Resistant (FR) clothing** that is NFPA 2112 Category 2 rated, worn on the outer-most layer
- **High Visibility** upper-body garment that is ANSI Class 2 rated; worn on the outer-most layer
- **Footwear:** solid uppers with adequate ankle support that is electrical rated
- **Eye Protection:** Safety Glasses with side shields that are ANSI Z87 rated

### **Additional PPE Requirements - Task Dependent:**

- **Hearing protection** in areas where noise levels exceed 85 dBA
- **Hand protection** adequate to the task being performed (e.g. chemical / cut resistant gloves)
- **Head protection:** Class E hardhat when exposed to overhead hazards (e.g. scaffolding, aerial lifts)
- **Face Protection** when involved in debris generating activity

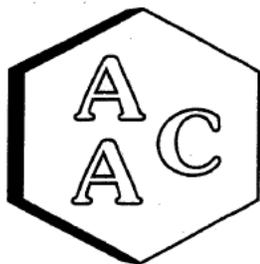
This list is not intended to be all inclusive as there may be tasks that require additional PPE.

Thank you for sharing in Waste & Renewables' core belief in safety.

Respectfully,

**Kyle Anderson, CSP, CHST**  
*Safety & Compliance Coordinator*  
Dane County Department of Waste & Renewables  
Mobile: 608.720.0595 | [anderson.kyle@countyofdane.com](mailto:anderson.kyle@countyofdane.com)

Attachment C. Landfill Gas VOC Analysis



# Atmospheric Analysis & Consulting, Inc.

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CLIENT : SCS Engineers  
PROJECT NAME : Dane Cty RNG Plant  
PROJECT NO. : 25217087.21  
AAC PROJECT NO. : 211971  
REPORT DATE : 11/04/2021

On October 27, 2021, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Silonite Canisters for Volatile Organic Compounds analysis by EPA Method TO-15. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

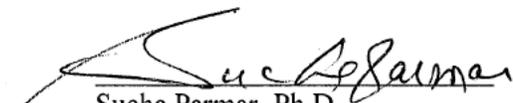
Client ID	Lab ID	Return Pressure (mmHga)
RNG Blower Inlet	211971-24847	690.0

**This analysis is accredited under the laboratory's ISO/IEC 17025:2017 accreditation issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation AT-1908. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at [www.aaclab.com](http://www.aaclab.com).**

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples.

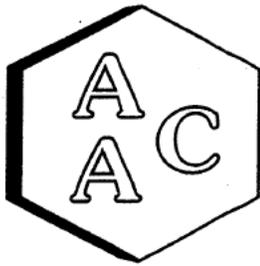
The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hardcopy report.

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

  
Sucha Parmar, Ph.D.  
Technical Director

This report consists of 8 pages.





# Atmospheric Analysis & Consulting, Inc.

## Laboratory Analysis Report

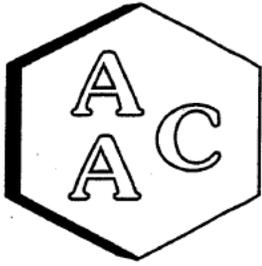
CLIENT : SCS Engineers  
 PROJECT NO : 211971  
 MATRIX : AIR  
 UNITS : PPB (v/v)

DATE RECEIVED : 10/27/2021  
 DATE REPORTED : 11/04/2021  
 ANALYST : MB/RC

### VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

<i>Client ID</i>	RNG Blower Inlet			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
<i>AAC ID</i>	211971-24847				
<i>Date Sampled</i>	10/21/2021				
<i>Date Analyzed</i>	11/01/2021				
<i>Can Dilution Factor</i>	2.33				
<i>Compound</i>	Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SRL	U	500	582	0.50
Propene	11300		500	1160	1.00
Dichlorodifluoromethane	<SRL	U	500	582	0.50
Chloromethane	<SRL	U	500	582	0.50
Dichlorotetrafluoroethane	<SRL	U	500	582	0.50
Vinyl Chloride	<SRL	U	500	582	0.50
Methanol	<SRL	U	500	5820	5.00
1,3-Butadiene	<SRL	U	500	582	0.50
Bromomethane	<SRL	U	500	582	0.50
Chloroethane	<SRL	U	500	582	0.50
Dichlorofluoromethane	<SRL	U	500	582	0.50
Ethanol	38400		500	2330	2.00
Vinyl Bromide	<SRL	U	500	582	0.50
Acetone	15100		500	2330	2.00
Trichlorofluoromethane	<SRL	U	500	582	0.50
2-Propanol (IPA)	9450		500	2330	2.00
Acrylonitrile	<SRL	U	500	2330	2.00
1,1-Dichloroethene	<SRL	U	500	582	0.50
Methylene Chloride (DCM)	<SRL	U	500	1160	1.00
Allyl Chloride	<SRL	U	500	1160	1.00
Carbon Disulfide	<SRL	U	500	2330	2.00
Trichlorotrifluoroethane	<SRL	U	500	582	0.50
trans-1,2-Dichloroethene	<SRL	U	500	582	0.50
1,1-Dichloroethane	<SRL	U	500	582	0.50
Methyl Tert Butyl Ether (MTBE)	<SRL	U	500	582	0.50
Vinyl Acetate	<SRL	U	500	1160	1.00
2-Butanone (MEK)	16200		500	1160	1.00
cis-1,2-Dichloroethene	<SRL	U	500	582	0.50
Hexane	2890		500	582	0.50
Chloroform	<SRL	U	500	582	0.50
Ethyl Acetate	1770		500	582	0.50
Tetrahydrofuran	4170		500	582	0.50
1,2-Dichloroethane	<SRL	U	500	582	0.50
1,1,1-Trichloroethane	<SRL	U	500	582	0.50
Benzene	932		500	582	0.50





# Atmospheric Analysis & Consulting, Inc.

## Laboratory Analysis Report

CLIENT : SCS Engineers  
 PROJECT NO : 211971  
 MATRIX : AIR  
 UNITS : PPB (v/v)

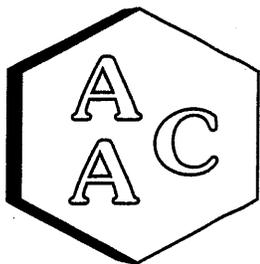
DATE RECEIVED : 10/27/2021  
 DATE REPORTED : 11/04/2021  
 ANALYST : MB/RC

### VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	RNG Blower Inlet			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
	Result	Qualifier	Analysis DF		
AAC ID	211971-24847				
Date Sampled	10/21/2021				
Date Analyzed	11/01/2021				
Can Dilution Factor	2.33				
Compound					
Carbon Tetrachloride	<SRL	U	500	582	0.50
Cyclohexane	1860		500	582	0.50
1,2-Dichloropropane	<SRL	U	500	582	0.50
Bromodichloromethane	<SRL	U	500	582	0.50
1,4-Dioxane	<SRL	U	500	1160	1.00
Trichloroethene (TCE)	<SRL	U	500	582	0.50
2,2,4-Trimethylpentane	641		500	582	0.50
Heptane	2730		500	582	0.50
cis-1,3-Dichloropropene	<SRL	U	500	582	0.50
4-Methyl-2-pentanone (MiBK)	<SRL	U	500	582	0.50
trans-1,3-Dichloropropene	<SRL	U	500	582	0.50
1,1,2-Trichloroethane	<SRL	U	500	582	0.50
Toluene	17300		500	582	0.50
2-Hexanone (MBK)	<SRL	U	500	1160	1.00
Dibromochloromethane	<SRL	U	500	582	0.50
1,2-Dibromoethane	<SRL	U	500	582	0.50
Tetrachloroethene (PCE)	<SRL	U	500	582	0.50
Chlorobenzene	<SRL	U	500	582	0.50
Ethylbenzene	4900		500	582	0.50
m & p-Xylene	9130		500	1160	1.00
Bromoform	<SRL	U	500	582	0.50
Styrene	<SRL	U	500	582	0.50
1,1,2,2-Tetrachloroethane	<SRL	U	500	582	0.50
o-Xylene	2600		500	582	0.50
4-Ethyltoluene	664		500	582	0.50
1,3,5-Trimethylbenzene	<SRL	U	500	582	0.50
1,2,4-Trimethylbenzene	862		500	582	0.50
Benzyl Chloride (a-Chlorotoluene)	<SRL	U	500	1160	1.00
1,3-Dichlorobenzene	<SRL	U	500	582	0.50
1,4-Dichlorobenzene	<SRL	U	500	582	0.50
1,2-Dichlorobenzene	<SRL	U	500	582	0.50
1,2,4-Trichlorobenzene	<SRL	U	500	1160	1.00
Hexachlorobutadiene	<SRL	U	500	582	0.50
BFB-Surrogate Std. % Recovery			91%		70-130%

U - Compound was not detected at or above the reporting limit.





# Atmospheric Analysis & Consulting, Inc.

## QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 11/01/2021  
 MATRIX : High Purity N<sub>2</sub>  
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04  
 CALIBRATION STD ID : PS100721-02  
 ANALYST : MB/RC

### VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15 Continuing Calibration Verification of the 10/19/2021 Calibration

Analyte Compounds	Source <sup>1</sup>	CCV <sup>2</sup>	% Recovery <sup>3</sup>
4-BFB (surrogate standard)	10.00	10.37	104
Chlorodifluoromethane	10.70	9.99	93
Propene	10.90	9.65	89
Dichlorodifluoromethane	10.30	10.44	101
Dimethyl Ether	10.70	9.35	87
Chloromethane	10.30	9.16	89
Dichlorotetrafluoroethane	9.80	11.07	113
Vinyl Chloride	10.10	10.15	100
Acetaldehyde	20.50	17.32	84
Methanol	16.20	15.18	94
1,3-Butadiene	10.70	10.43	97
Bromomethane	10.30	10.31	100
Chloroethane	9.90	9.20	93
Dichlorofluoromethane	10.40	10.40	100
Ethanol	10.50	9.26	88
Vinyl Bromide	10.60	11.06	104
Acrolein	10.90	9.66	89
Acetone	10.40	8.78	84
Trichlorofluoromethane	10.20	10.37	102
2-Propanol (IPA)	10.90	10.51	96
Acrylonitrile	11.30	9.26	82
1,1-Dichloroethene	10.70	10.83	101
Methylene Chloride (DCM)	10.90	10.23	94
TertButanol (TBA)	10.80	10.46	97
Allyl Chloride	10.90	10.96	101
Carbon Disulfide	10.50	9.69	92
Trichlorotrifluoroethane	10.90	10.43	96
trans-1,2-Dichloroethene	10.40	10.05	97
1,1-Dichloroethane	10.30	9.50	92
Methyl Tert Butyl Ether (MTBE)	10.80	10.86	101
Vinyl Acetate	11.00	10.89	99
2-Butanone (MEK)	10.50	9.70	92
cis-1,2-Dichloroethene	10.50	10.14	97
Hexane	10.70	10.33	97
Chloroform	10.60	10.02	95
Ethyl Acetate	10.60	10.14	96
Tetrahydrofuran	10.60	10.36	98
1,2-Dichloroethane	10.60	10.50	99
1,1,1-Trichloroethane	10.50	9.96	95
Benzene	10.60	10.71	101
Carbon Tetrachloride	10.70	10.59	99
Cyclohexane	10.50	10.96	104

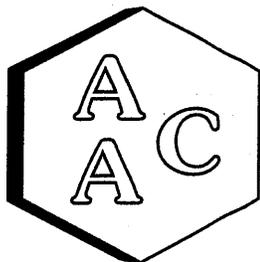
Analyte Compounds (Continued)	Source <sup>1</sup>	CCV <sup>2</sup>	% Recovery <sup>3</sup>
1,2-Dichloropropane	10.60	9.99	94
Bromodichloromethane	10.50	10.32	98
1,4-Dioxane	10.50	9.49	90
Trichloroethene (TCE)	10.50	10.76	102
2,2,4-Trimethylpentane	10.60	11.09	105
Methyl Methacrylate	10.60	10.44	98
Heptane	10.60	10.71	101
cis-1,3-Dichloropropene	10.20	9.82	96
4-Methyl-2-pentanone (MiBK)	10.20	9.62	94
trans-1,3-Dichloropropene	10.10	9.52	94
1,1,2-Trichloroethane	10.80	10.21	95
Toluene	10.80	11.03	102
2-Hexanone (MBK)	10.70	9.54	89
Dibromochloromethane	10.60	10.59	100
1,2-Dibromoethane	10.90	10.63	98
Tetrachloroethene (PCE)	10.50	10.20	97
Chlorobenzene	10.90	10.49	96
Ethylbenzene	10.90	11.77	108
m & p-Xylene	21.60	23.74	110
Bromoform	10.80	11.26	104
Styrene	10.70	10.93	102
1,1,2,2-Tetrachloroethane	10.70	10.79	101
o-Xylene	10.70	11.44	107
1,2,3-Trichloropropane	10.80	11.30	105
Isopropylbenzene (Cumene)	10.80	11.10	103
α-Pinene	11.60	12.25	106
2-Chlorotoluene	10.90	11.34	104
n-Propylbenzene	10.20	11.05	108
4-Ethyltoluene	10.60	11.66	110
1,3,5-Trimethylbenzene	10.50	10.78	103
β-Pinene	9.30	9.34	100
1,2,4-Trimethylbenzene	10.50	11.31	108
Benzyl Chloride (a-Chlorotoluene)	10.60	9.39	89
1,3-Dichlorobenzene	10.60	10.95	103
1,4-Dichlorobenzene	10.40	10.95	105
Sec-Butylbenzene	10.80	12.05	112
1,2-Dichlorobenzene	10.30	10.30	100
n-Butylbenzene	10.60	10.55	100
1,2-Dibromo-3-Chloropropane	10.70	10.15	95
1,2,4-Trichlorobenzene	10.50	11.40	109
Naphthalene	10.50	11.01	105
Hexachlorobutadiene	10.70	10.02	94

<sup>1</sup> Concentration of analyte compound in certified source standard.

<sup>2</sup> Measured result from daily Continuing Calibration Verification (CCV).

<sup>3</sup> The acceptable range for analyte recovery is 100±30%.





# Atmospheric Analysis & Consulting, Inc.

## QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 11/01/2021

MATRIX : High Purity N<sub>2</sub>

UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04

CALIBRATION STD ID : PS100721-02

ANALYST : MB/RC

### VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Laboratory Control Spike Analysis

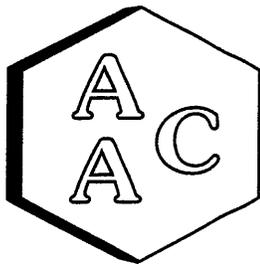
System Monitoring Compounds	Sample Concentration	Spike Added	LCS <sup>1</sup> Recovery	LCSD <sup>1</sup> Recovery	LCS <sup>1</sup> % Recovery <sup>2</sup>	LCSD <sup>1</sup> % Recovery <sup>2</sup>	RPD <sup>3</sup>
4-BFB (surrogate standard)	0.0	10.00	10.37	10.18	103.7	101.8	1.8
1,1-Dichloroethene	0.0	10.70	10.83	10.85	101	101	0.2
Methylene Chloride (DCM)	0.0	10.90	10.23	10.63	94	98	3.8
Benzene	0.0	10.60	10.71	10.76	101	102	0.5
Trichloroethene (TCE)	0.0	10.50	10.76	10.74	102	102	0.2
Toluene	0.0	10.80	11.03	11.17	102	103	1.3
Tetrachloroethene (PCE)	0.0	10.50	10.20	10.40	97	99	1.9
Chlorobenzene	0.0	10.90	10.49	10.51	96	96	0.2
Ethylbenzene	0.0	10.90	11.77	11.76	108	108	0.1
m & p-Xylene	0.0	21.60	23.74	24.27	110	112	2.2
o-Xylene	0.0	10.70	11.44	11.50	107	107	0.5

<sup>1</sup> Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

<sup>2</sup> The acceptable range for analyte recovery is 100±30%.

<sup>3</sup> Relative Percent Difference (RPD) between LCS recovery and LCSD recovery (acceptable range is <25%).





# Atmospheric Analysis & Consulting, Inc.

## QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 11/01/2021  
 MATRIX : High Purity He or N<sub>2</sub>  
 UNITS : PPB (v/v)

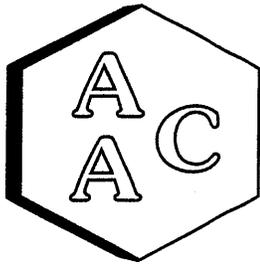
INSTRUMENT ID : GC/MS-04  
 ANALYST : MB/RC

### VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15 Method Blank Analysis

Analyte Compounds	MB 110121	Reporting Limit (RL)
4-BFB (surrogate standard)	85%	100±30%
Chlorodifluoromethane	<RL	0.5
Propene	<RL	1.0
Dichlorodifluoromethane	<RL	0.5
Dimethyl Ether	<RL	0.5
Chloromethane	<RL	0.5
Dichlorotetrafluoroethane	<RL	0.5
Vinyl Chloride	<RL	0.5
Acetaldehyde	<RL	5.0
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
Acrolein	<RL	1.0
Acetone	<RL	2.0
Trichlorofluoromethane	<RL	0.5
2-Propanol (IPA)	<RL	2.0
Acrylonitrile	<RL	2.0
1,1-Dichloroethene	<RL	0.5
Methylene Chloride (DCM)	<RL	1.0
TertButanol (TBA)	<RL	0.5
Allyl Chloride	<RL	1.0
Carbon Disulfide	<RL	2.0
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

Analyte Compounds (Continued)	MB 110121	Reporting Limit (RL)
1,2-Dichloropropane	<RL	0.5
Bromodichloromethane	<RL	0.5
1,4-Dioxane	<RL	1.0
Trichloroethene (TCE)	<RL	0.5
2,2,4-Trimethylpentane	<RL	0.5
Methyl Methacrylate	<RL	0.5
Heptane	<RL	0.5
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	1.0
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-Xylene	<RL	1.0
Bromoform	<RL	0.5
Styrene	<RL	0.5
1,1,2,2-Tetrachloroethane	<RL	0.5
o-Xylene	<RL	0.5
1,2,3-Trichloropropane	<RL	0.5
Isopropylbenzene (Cumene)	<RL	0.5
α-Pinene	<RL	0.5
2-Chlorotoluene	<RL	0.5
n-Propylbenzene	<RL	0.5
4-Ethyltoluene	<RL	0.5
1,3,5-Trimethylbenzene	<RL	0.5
β-Pinene	<RL	0.5
1,2,4-Trimethylbenzene	<RL	0.5
Benzyl Chloride (a-Chlorotoluene)	<RL	1.0
1,3-Dichlorobenzene	<RL	0.5
1,4-Dichlorobenzene	<RL	0.5
Sec-ButylBenzene	<RL	0.5
1,2-Dichlorobenzene	<RL	0.5
n-ButylBenzene	<RL	1.0
1,2-Dibromo-3-Chloropropane	<RL	0.5
1,2,4-Trichlorobenzene	<RL	1.0
Naphthalene	<RL	1.0
Hexachlorobutadiene	<RL	0.5





# Atmospheric Analysis & Consulting, Inc.

## QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 11/01/2021  
 MATRIX : Air  
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04  
 ANALYST : MB/RC  
 DILUTION FACTOR<sup>1</sup> : x50

### VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Duplicate Analysis of AAC Sample ID: 211976-24873

Analyte Compounds	Sample	Duplicate	RPD <sup>2</sup>
4-BFB (surrogate standard)	8.25	8.06	2.3
Chlorodifluoromethane	<SRL	<SRL	NA
Propene	2830	2800	1.0
Dichlorodifluoromethane	<SRL	<SRL	NA
Dimethyl Ether	<SRL	<SRL	NA
Chloromethane	<SRL	<SRL	NA
Dichlorotetrafluoroethane	<SRL	<SRL	NA
Vinyl Chloride	<SRL	<SRL	NA
Acetaldehyde	<SRL	<SRL	NA
Methanol	<SRL	<SRL	NA
1,3-Butadiene	<SRL	<SRL	NA
Bromomethane	<SRL	<SRL	NA
Chloroethane	<SRL	<SRL	NA
Dichlorofluoromethane	<SRL	<SRL	NA
Ethanol	<SRL	<SRL	NA
Vinyl Bromide	<SRL	<SRL	NA
Acrolein	<SRL	<SRL	NA
Acetone	<SRL	<SRL	NA
Trichlorofluoromethane	<SRL	<SRL	NA
2-Propanol (IPA)	<SRL	<SRL	NA
Acrylonitrile	<SRL	<SRL	NA
1,1-Dichloroethene	<SRL	<SRL	NA
Methylene Chloride (DCM)	<SRL	<SRL	NA
TertButanol (TBA)	<SRL	<SRL	NA
Allyl Chloride	<SRL	<SRL	NA
Carbon Disulfide	<SRL	<SRL	NA
Trichlorotrifluoroethane	<SRL	<SRL	NA
trans-1,2-Dichloroethene	<SRL	<SRL	NA
1,1-Dichloroethane	<SRL	<SRL	NA
Methyl Tert Butyl Ether (MTBE)	<SRL	<SRL	NA
Vinyl Acetate	<SRL	<SRL	NA
2-Butanone (MEK)	<SRL	<SRL	NA
cis-1,2-Dichloroethene	<SRL	<SRL	NA
Hexane	<SRL	<SRL	NA
Chloroform	<SRL	<SRL	NA
Ethyl Acetate	<SRL	<SRL	NA
Tetrahydrofuran	<SRL	<SRL	NA
1,2-Dichloroethane	<SRL	<SRL	NA
1,1,1-Trichloroethane	<SRL	<SRL	NA
Benzene	<SRL	<SRL	NA
Carbon Tetrachloride	<SRL	<SRL	NA
Cyclohexane	<SRL	<SRL	NA

Analyte Compounds (Continued)	Sample	Duplicate	RPD <sup>2</sup>
1,2-Dichloropropane	<SRL	<SRL	NA
Bromodichloromethane	<SRL	<SRL	NA
1,4-Dioxane	<SRL	<SRL	NA
Trichloroethene (TCE)	<SRL	<SRL	NA
2,2,4-Trimethylpentane	<SRL	<SRL	NA
Methyl Methacrylate	<SRL	<SRL	NA
Heptane	<SRL	<SRL	NA
cis-1,3-Dichloropropene	<SRL	<SRL	NA
4-Methyl-2-pentanone (MiBK)	<SRL	<SRL	NA
trans-1,3-Dichloropropene	<SRL	<SRL	NA
1,1,2-Trichloroethane	<SRL	<SRL	NA
Toluene	<SRL	<SRL	NA
2-Hexanone (MBK)	<SRL	<SRL	NA
Dibromochloromethane	<SRL	<SRL	NA
1,2-Dibromoethane	<SRL	<SRL	NA
Tetrachloroethene (PCE)	<SRL	<SRL	NA
Chlorobenzene	<SRL	<SRL	NA
Ethylbenzene	<SRL	<SRL	NA
m & p-Xylene	<SRL	<SRL	NA
Bromoform	<SRL	<SRL	NA
Styrene	<SRL	<SRL	NA
1,1,2,2-Tetrachloroethane	<SRL	<SRL	NA
o-Xylene	<SRL	<SRL	NA
1,2,3-Trichloropropane	<SRL	<SRL	NA
Isopropylbenzene (Cumene)	<SRL	<SRL	NA
α-Pinene	<SRL	<SRL	NA
2-Chlorotoluene	<SRL	<SRL	NA
n-Propylbenzene	<SRL	<SRL	NA
4-Ethyltoluene	<SRL	<SRL	NA
1,3,5-Trimethylbenzene	<SRL	<SRL	NA
β-Pinene	<SRL	<SRL	NA
1,2,4-Trimethylbenzene	<SRL	<SRL	NA
Benzyl Chloride (a-Chlorotoluene)	<SRL	<SRL	NA
1,3-Dichlorobenzene	<SRL	<SRL	NA
1,4-Dichlorobenzene	<SRL	<SRL	NA
Sec-ButylBenzene	<SRL	<SRL	NA
1,2-Dichlorobenzene	<SRL	<SRL	NA
n-ButylBenzene	<SRL	<SRL	NA
1,2-Dibromo-3-Chloropropane	<SRL	<SRL	NA
1,2,4-Trichlorobenzene	<SRL	<SRL	NA
Naphthalene	<SRL	<SRL	NA
Hexachlorobutadiene	<SRL	<SRL	NA

<sup>1</sup> Dilution factor is the product of the Canister Dilution Factor and the Analysis Dilution Factor.

<sup>2</sup> Relative Percent Difference (RPD) between Sample analysis and Duplicate analysis (acceptable range is <25%).

SRL - Sample Reporting Limit (minimum)



211971



**CHAIN OF CUSTODY AND ANALYSIS REQUEST** – Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

Atmospheric Analysis and Consulting · Phone: 805-650-1642 · Email: info@aaclab.com · 1534 Eastman Ave Suite A, Ventura, CA 93003

AAC Project No.:

Client/Company Name  
SCS Engineers

Project Name  
Done City RNG Plant

Send Report To (Name/Email/Address)  
Chris Jimison  
cjimison@scsengineers.com

Project Manager Name  
Chris Jimison

Project Number  
25217087.21

Send Invoice To (Name/Email/Address)  
Same

Turnaround Time

Analysis Requested

PO Number

- Rush 24 h
- Same Day
- Rush 48 h
- 5 Days
- Rush 72 h
- Normal

Sampler Name  
Print: Tony Kriegl  
Signature:

EPA TO-15(VOCs)  
EPA Method 3C  
Siloxanes  
ASTM 5504 (Sulfides)

LAB USE ONLY  
Sample Received  
Via:  
 FedEx  
 UPS  
 Courier  
 Other

Client Sample Name

Sample ID

Sampling Date

Sampling Time

Container Type/Qty

Rodfield RTO #1  
RNG Blower Inlet

000820  
000815

10-21-21  
10-21-21

08:05  
07:50

X  
X  
X

LAB USE ONLY

EDD?

Lab ID

Temperature °C

Relinquished By  
Print: Tony Kriegl  
Signature:

Date  
10/26/2021

Received By  
Print: Hunter Barton  
Signature:

Date  
10/27/21

Relinquished By  
Print: \_\_\_\_\_  
Signature:

Date  
Time

Received By  
Print: \_\_\_\_\_  
Signature:

Date  
Time

Client Notes/Special Instructions:

LAB USE ONLY

Returned Eqmt

Temperature °C

Relinquished By  
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