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 H2S SYSTEM UPGRADE DANE COUNTY RNG PLANT

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

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 11th.

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 H2S Treatment System Upgrade Project?

Answer 1: Dane County is not sharing budget expectations for the procurement of H2S 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 H2S. 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.

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.

Agenda Item	Time Anticipated
Welcome, Introductions, Safety • Meet at RNG Plant controlled access gate; Follow W&R staff to RNG Plant Work Trailer • Sign – In / Introductions • Safety Orientation – ATTENDEES ARE EXPECTED TO ADHERE TO THE "MINIMUM PPE REQUIREMENTS MEMORANDUM" DATED 9/15/2022	15 mins (9am - 9:15am)
Pretour Discussion / Overview • Site Plan • RFP Documents	15 mins (9:15am - 9:30am)
Tour • General overview of plant • Tour Biological Desulfurization System, discuss current process • Review footprint considerations	45 mins (9:30am - 10:15am)
Questions •	35 mins (10:15am - 10:50am)
Closing / Sign Out • Return PPE (gas monitors, etc) • Sign Out	10 mins (10:50am -11am)

Renewable Natural Gas Plant

Primary H2S Treatment System Upgrade

Name	Company	Phone No.

Attachment B. Facility Tour PPE Policy

DANE COUNTY DEPARTMENT OF
WASTE & RENEWABLES

Director John Welch, PE
Safety & Compliance Coordinator Kyle Anderson
1919 Alliant Energy Center Way
Madison, Wisconsin 53713
(608) 266-4018

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, CO2, H2S, and O2
- **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

Attachment C. Landfill Gas VOC Analysis

Atmospheric Analysis & Consulting, Inc.

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)
[redacted]		
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.

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.

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

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	[redacted]	RNG Blower Inlet			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID		211971-24847				
Date Sampled		10/21/2021				
Date Analyzed		11/01/2021				
Can Dilution Factor		2.33				
Compound		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

[redacted]

Client ID	RNG Blower Inlet			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	211971-24847				
Date Sampled	10/21/2021				
Date Analyzed	11/01/2021				
Can Dilution Factor	2.33				
Compound	Result	Qualifier	Analysis DF		
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 th

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QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 11/01/2021
MATRIX : High Purity N_2
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*[1]	*CCV*[2]	*% Recovery*[3]
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*[1]	*CCV*[2]	*% Recovery*[3]
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

[1] Concentration of analyte compound in certified source standard.

[2] Measured result from daily Continuing Calibration Verification (CCV).

[3] The acceptable range for analyte recovery is 100±30%.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 11/01/2021
MATRIX : High Purity N_2
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[1] Recovery*	*LCSD[1] Recovery*	*LCS[1] % Recovery[2]*	*LCSD[1] % Recovery[2]*	*RPD[3]*
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

[1] Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

[2] The acceptable range for analyte recovery is 100±30%.

[3] Relative Percent Difference (RPD) between LCS recovery and LCSD recovery (acceptable range is <25%).

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QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 11/01/2021 | **INSTRUMENT ID : GC/MS-04**
MATRIX : High Purity He or N_2 | **ANALYST : MB/RC**
UNITS : PPB (v/v)

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

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[1] : x50

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Duplicate Analysis of AAC Sample ID: 211976-24873

Analyte Compounds	*Sample*	*Duplicate*	*RPD*[2]
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*[2]
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*

[1] Dilution factor is the product of the Canister Dilution Factor and the Analysis Dilution Factor.

[2] 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** Dane Cty RNG Plant
Project Manager Name Chris Jimieson	**Project Number** 25217087.21
Turnaround Time ☐ Rush 24 h ☐ Same Day ☐ Rush 48 h ☐ 5 Days ☐ Rush 72 h ☒ Normal	**Sampler Name** **Print:** Tony Kriel **Signature:**

Send Report To (Name/Email/Address) Chris Jimieson cjimieson@scsengineers.com

Send Invoice To (Name/Email/Address) Same

PO Number

LAB USE ONLY

Client Sample Name	Sample ID	Sampling Date	Sampling Time	Container Type/Qty	Analysis Requested: EPA TO-15 (VOCs)	EPA Method 3C	Siloxanes	ASTM 5504 (Sulfides)		Lab ID
Rodefeld RTO #1	000820	10-21-21	08:05		X	X				24846
RNG Blower Inlet	000815	10-21-21	07:50		X			X		24847

Sample Received via: ☐FedEx ☐UPS ☐Courier ☐Other_____

Temperature _____°C Thermometer ID _____ Initials _____

Returned Eqmt Total cans: _____ Unused cans: _____ Flow Controllers: _____

Client Notes/Special Instructions:

EDD? ☐Yes ☐No

LAB USE ONLY Notes:

Relinquished By Print: Tony Kriel Signature:	**Date** 10/26/2021 **Time**	**Received By** Print: HUNTER DACTON Signature:	**Date** 10/27/21 **Time** 1444
Relinquished By Print: Signature:	**Date** **Time**	**Received By** Print: Signature:	**Date** **Time**