

From: Schultz, Tory <Tory.Schultz@aecom.com>
Sent: Thursday, February 20, 2020 4:44 PM
To: Feeney, John M - DNR
Cc: Altenbach, Lanette; Mulcahy, Connor
Subject: Former Quality Cleaners Off-site Vapor Intrusion Assessment (BRRTS #02-46-560212) - Third (partial) Sample Event Results (warming season)
Attachments: Lab.Report_FED2019_1225_1227_12thAve.pdf; Lab.Report_FED2019_1233_12thAve.pdf; Lab.Report_FED2019_1102BridgeSt.pdf; Figure 1 Sample Locations_event3.pdf

Good afternoon John,

Here are the results of AECOM’s VI testing in Grafton during February 2020. We received the last of the sample results late yesterday.

On February 5th-6th, 2020, AECOM conducted work associated with the Former Quality Cleaners Off-site Vapor Intrusion Assessment. Five sub-slab vapor pins at off-site locations were sampled (SS-1, SS-2, SS-3, SS-4, and SS-5). One indoor air and one outdoor ambient air sample were collected from 1233 12th Avenue, and one indoor air and one outdoor ambient air sample were collected from 1225-1227 12th Avenue. Samples were collected in laboratory-supplied Summa canisters and were analyzed by method TO-15 by Pace Analytical in Minneapolis, MN. Field sampling was conducted in general accordance with the WDNR vapor intrusion guidance (RR-986) and compared to the most conservative values (Residential Wisc. Admin § NR 700.03(49g)) shown on the WI Vapor Quick Look-Up Table for Indoor Air Vapor Action Levels (VAL) and Vapor Risk Screening Levels (VRSL), dated November 2017. Results from this vapor intrusion sampling event collected during the warming season and previous events are summarized below. Laboratory reports are attached for inclusion into residential notification letters. All ambient, indoor air, and sub-slab vapor samples were reported below VALs and VRSLs, respectively. Figure 1 shows locations of the vapor pins on each property along with the indoor and outdoor ambient air sample collection points.

Sample Methodology

Vapor pins were installed during the initial site visit on July 23, 2019 and November 19, 2019 for SS-5. Indoor and outdoor ambient air samples were initiated on February 5th, 2020. On February 6th, 2020, field staff returned to the properties to collect sub-slab vapor samples and collect the 24-hour ambient outdoor and indoor air samples. Prior to collection of sub-slab vapor samples, leak testing by use of a water dam and shut-in test with a laboratory-supplied Purge Manifold Assembly confirmed each vapor pin was properly installed and the sample train was constructed without leaks.

Table 1 – Summary of Air Sampling Results for PCE (µg/m³)

Assessment Property	Sample ID	July 2019 (Cooling)	November 2019 (Warming)	February 2020 (Warming)
1102 Bridge Street	SS-1	3.9	1.7	1.0 J
	SS-5	Vapor Pin installed at later date	2.8	3.9
1233 12 th Avenue	SS-2	1,390	85.4	35.9
	SS-3	169	491	335
	OA-1 (AA-1)	ND	ND	ND
	IA-1 (AI-1)	1.1	2.5	2.5
1225-1227 12 th Avenue	SS-4	2.8	Access Denied During this event	0.79 J
	OA-2 (AA-2)	ND		ND
	IA-2 (AI-2)	ND		2.3

Notes:

SS = sub-slab vapor sample collected at a rate of approximately 200mL/minute

OA = Outdoor Ambient air 24-hour sample duration, labeled "AA" during July 2019 sampling event.

IA = indoor air 24-hour sample duration, labeled "AI" during July 2019 sampling event.

Sub-Slab vapor risk screening level 1,400 µg/m³

ND = Non Detect

J = Estimated concentration at or above the Limit of Detection but below the Limit of Quantitation

Deviations from the Sampling and Analysis Plan

1. In place of a helium shroud to confirm a proper seal of the VP, Pace Analytical supplied a dedicated Purge Manifold Assembly (PMA) for each sample location to perform a shut-in test on the sample train prior to sample collection. Leak testing each sample train was conducted according to Pace Analytical's Assembly of the Purge Manifold Assembly (PMA).

Fourth Sampling Event Schedule

The work plan for this project included three sampling events. Because of the denial of access at 1225-1227 12th Avenue during the November 2019 sampling event and the late vapor pin installation date at SS-5 (1102 Bridge Street), these locations have been sampled twice. A fourth sample event is recommended to allow the third (final) sampling of SS-5 as well as sub-slab, indoor ambient, and outdoor ambient air samples at 1225-1227 12th Avenue. Because SS-5 has been sampled during the warming season (Nov. 2019 and Feb. 2020), it is proposed a fourth sampling event be conducted during the cooling season in late-spring or summer of 2020. The total cost for the proposed fourth sampling event is estimated to be \$3,500. Remaining budget under the current contract is \$6,800.

Please let us know if you have comments or questions.

Thank you,

Tory Schultz

Senior Project Manager, Environment, Central Region

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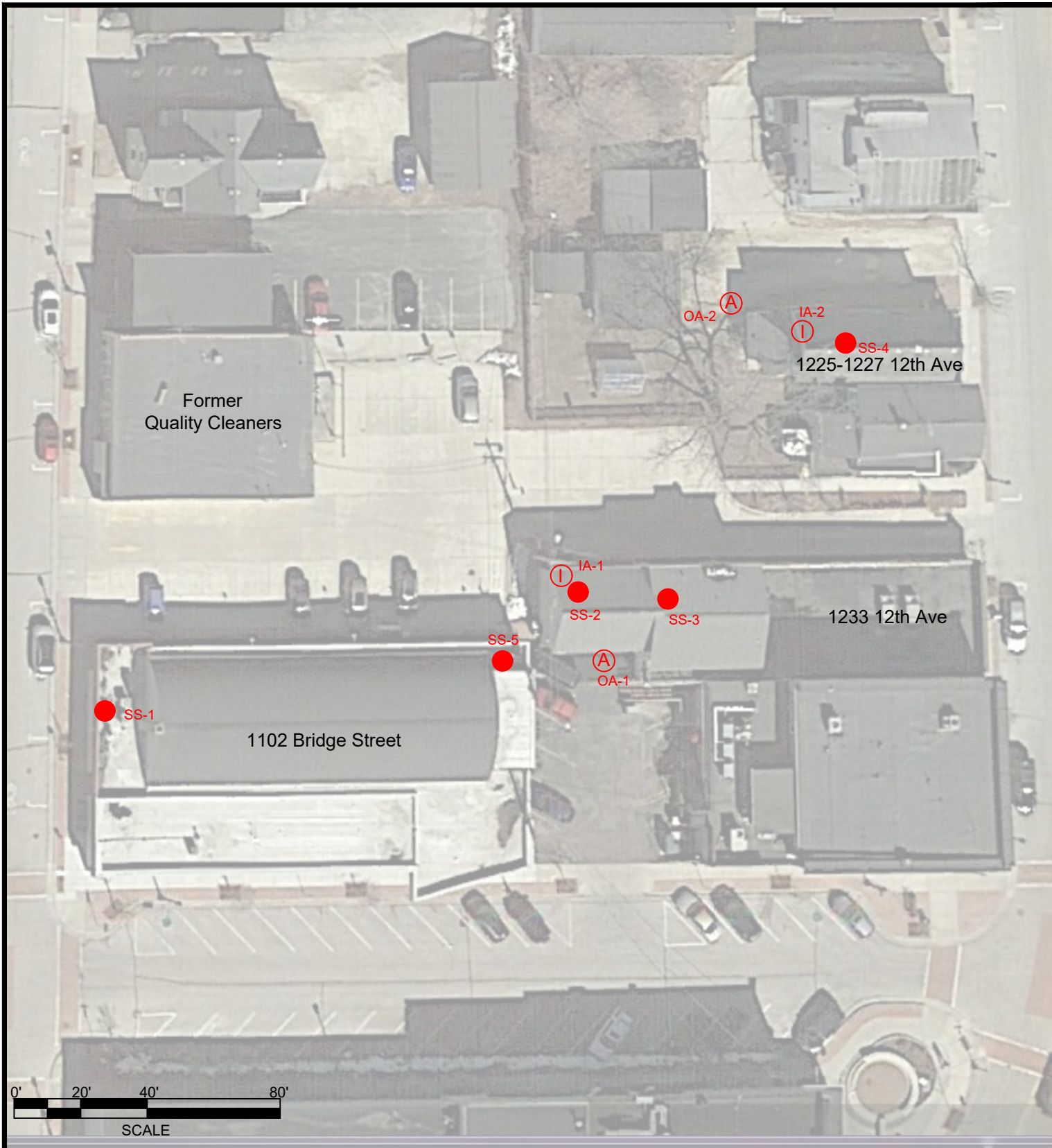
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File: \\usmwwk1fs001\proj\Data\Projects\60602996\900_CAD_GIS\CAD\Grafton_VI_Assessment.dwg; USER: SCHULTZ, TORY; PLOTTED: August 13, 2019 - 2:40 PM



Legend:

- Sub-slab Vapor Probe and Identification Number
- Ⓜ Indoor Air Sample Location and Identification Number
- Ⓐ Ambient Air Sample Location and Identification Number

Notes:

1. Aerial photograph from Google Earth Pro dated 10/10/2013.



AECOM
 Milwaukee Office
 1555 RiverCenter Dr
 Milwaukee, WI
 414.944.6080



GRAFTON VI ASSESSMENT

VAPOR INTRUSION ASSESSMENT
SAMPLE LOCATIONS

Project Number:
60602996

Drawn By:
TAS

Date:
2/6/2020

Figure No. 1

February 11, 2020

Lanette Altenbach
AECOM
1555 N RiverCenter Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60602996 Grafton VI
Pace Project No.: 10507761

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60602996 Grafton VI
Pace Project No.: 10507761

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01	Minnesota Dept of Ag Certification #: via MN 027-053-137
Alabama Certification #: 40770	Minnesota Petrofund Certification #: 1240
Alaska Contaminated Sites Certification #: 17-009	Mississippi Certification #: MN00064
Alaska DW Certification #: MN00064	Missouri Certification #: 10100
Arizona Certification #: AZ0014	Montana Certification #: CERT0092
Arkansas DW Certification #: MN00064	Nebraska Certification #: NE-OS-18-06
Arkansas WW Certification #: 88-0680	Nevada Certification #: MN00064
California Certification #: 2929	New Hampshire Certification #: 2081
CNMI Saipan Certification #: MP0003	New Jersey Certification #: MN002
Colorado Certification #: MN00064	New York Certification #: 11647
Connecticut Certification #: PH-0256	North Carolina DW Certification #: 27700
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Carolina WW Certification #: 530
Florida Certification #: E87605	North Dakota Certification #: R-036
Georgia Certification #: 959	Ohio DW Certification #: 41244
Guam EPA Certification #: MN00064	Ohio VAP Certification #: CL101
Hawaii Certification #: MN00064	Oklahoma Certification #: 9507
Idaho Certification #: MN00064	Oregon Primary Certification #: MN300001
Illinois Certification #: 200011	Oregon Secondary Certification #: MN200001
Indiana Certification #: C-MN-01	Pennsylvania Certification #: 68-00563
Iowa Certification #: 368	Puerto Rico Certification #: MN00064
Kansas Certification #: E-10167	South Carolina Certification #: 74003001
Kentucky DW Certification #: 90062	Tennessee Certification #: TN02818
Kentucky WW Certification #: 90062	Texas Certification #: T104704192
Louisiana DEQ Certification #: 03086	Utah Certification #: MN00064
Louisiana DW Certification #: MN00064	Vermont Certification #: VT-027053137
Maine Certification #: MN00064	Virginia Certification #: 460163
Maryland Certification #: 322	Washington Certification #: C486
Massachusetts Certification #: M-MN064	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 60602996 Grafton VI

Pace Project No.: 10507761

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10507761001	SS-1	Air	02/06/20 11:11	02/07/20 09:45
10507761002	SS-5	Air	02/06/20 11:14	02/07/20 09:45

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SAMPLE ANALYTE COUNT

Project: 60602996 Grafton VI
Pace Project No.: 10507761

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10507761001	SS-1	TO-15	MJL	61	PASI-M
10507761002	SS-5	TO-15	MJL	61	PASI-M

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SUMMARY OF DETECTION

Project: 60602996 Grafton VI

Pace Project No.: 10507761

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10507761001	SS-1					
TO-15	Acetone	15.1	ug/m3	3.9	02/09/20 15:34	
TO-15	Benzene	0.57	ug/m3	0.52	02/09/20 15:34	
TO-15	2-Butanone (MEK)	6.9	ug/m3	4.8	02/09/20 15:34	
TO-15	Dichlorodifluoromethane	3.2	ug/m3	1.6	02/09/20 15:34	
TO-15	Ethanol	38.0	ug/m3	3.1	02/09/20 15:34	
TO-15	Ethyl acetate	2.8	ug/m3	1.2	02/09/20 15:34	
TO-15	Ethylbenzene	1.1J	ug/m3	1.4	02/09/20 15:34	
TO-15	n-Hexane	0.87J	ug/m3	1.2	02/09/20 15:34	
TO-15	2-Propanol	41.4	ug/m3	4.0	02/09/20 15:34	
TO-15	Propylene	0.73	ug/m3	0.56	02/09/20 15:34	
TO-15	Tetrachloroethene	1.0J	ug/m3	1.1	02/09/20 15:34	
TO-15	Toluene	3.3	ug/m3	1.2	02/09/20 15:34	
TO-15	Trichlorofluoromethane	1.7J	ug/m3	1.8	02/09/20 15:34	
TO-15	1,2,4-Trimethylbenzene	1.3J	ug/m3	1.6	02/09/20 15:34	
TO-15	1,3,5-Trimethylbenzene	0.94J	ug/m3	1.6	02/09/20 15:34	
TO-15	m&p-Xylene	4.7	ug/m3	2.8	02/09/20 15:34	
TO-15	o-Xylene	1.6	ug/m3	1.4	02/09/20 15:34	
10507761002	SS-5					
TO-15	Acetone	9.6	ug/m3	3.6	02/09/20 16:02	
TO-15	Benzene	0.73	ug/m3	0.48	02/09/20 16:02	
TO-15	2-Butanone (MEK)	4.5	ug/m3	4.5	02/09/20 16:02	
TO-15	Carbon disulfide	1.8	ug/m3	0.94	02/09/20 16:02	
TO-15	Chloromethane	0.45J	ug/m3	0.63	02/09/20 16:02	
TO-15	Cyclohexane	0.67J	ug/m3	2.6	02/09/20 16:02	
TO-15	Dichlorodifluoromethane	3.0	ug/m3	1.5	02/09/20 16:02	
TO-15	Ethanol	43.9	ug/m3	2.9	02/09/20 16:02	
TO-15	Ethyl acetate	2.8	ug/m3	1.1	02/09/20 16:02	
TO-15	Ethylbenzene	1.5	ug/m3	1.3	02/09/20 16:02	
TO-15	n-Heptane	0.80J	ug/m3	1.2	02/09/20 16:02	
TO-15	2-Propanol	3.2J	ug/m3	3.7	02/09/20 16:02	
TO-15	Tetrachloroethene	3.9	ug/m3	1.0	02/09/20 16:02	
TO-15	Toluene	4.7	ug/m3	1.1	02/09/20 16:02	
TO-15	Trichlorofluoromethane	1.6J	ug/m3	1.7	02/09/20 16:02	
TO-15	1,2,4-Trimethylbenzene	2.3	ug/m3	1.5	02/09/20 16:02	
TO-15	1,3,5-Trimethylbenzene	1.3J	ug/m3	1.5	02/09/20 16:02	
TO-15	m&p-Xylene	5.8	ug/m3	2.6	02/09/20 16:02	
TO-15	o-Xylene	2.0	ug/m3	1.3	02/09/20 16:02	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507761

Sample: SS-1 **Lab ID: 10507761001** Collected: 02/06/20 11:11 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	15.1	ug/m3	3.9	1.9	1.61		02/09/20 15:34	67-64-1	
Benzene	0.57	ug/m3	0.52	0.25	1.61		02/09/20 15:34	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.2	1.9	1.61		02/09/20 15:34	100-44-7	
Bromodichloromethane	<0.59	ug/m3	2.2	0.59	1.61		02/09/20 15:34	75-27-4	
Bromoform	<2.3	ug/m3	8.5	2.3	1.61		02/09/20 15:34	75-25-2	
Bromomethane	<0.37	ug/m3	1.3	0.37	1.61		02/09/20 15:34	74-83-9	
1,3-Butadiene	<0.21	ug/m3	0.72	0.21	1.61		02/09/20 15:34	106-99-0	
2-Butanone (MEK)	6.9	ug/m3	4.8	0.59	1.61		02/09/20 15:34	78-93-3	
Carbon disulfide	<0.35	ug/m3	1.0	0.35	1.61		02/09/20 15:34	75-15-0	
Carbon tetrachloride	<0.69	ug/m3	2.1	0.69	1.61		02/09/20 15:34	56-23-5	
Chlorobenzene	<0.44	ug/m3	1.5	0.44	1.61		02/09/20 15:34	108-90-7	
Chloroethane	<0.42	ug/m3	0.86	0.42	1.61		02/09/20 15:34	75-00-3	
Chloroform	<0.32	ug/m3	0.80	0.32	1.61		02/09/20 15:34	67-66-3	
Chloromethane	<0.25	ug/m3	0.68	0.25	1.61		02/09/20 15:34	74-87-3	
Cyclohexane	<0.57	ug/m3	2.8	0.57	1.61		02/09/20 15:34	110-82-7	
Dibromochloromethane	<1.2	ug/m3	2.8	1.2	1.61		02/09/20 15:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.59	ug/m3	1.3	0.59	1.61		02/09/20 15:34	106-93-4	
1,2-Dichlorobenzene	<0.80	ug/m3	2.0	0.80	1.61		02/09/20 15:34	95-50-1	
1,3-Dichlorobenzene	<0.94	ug/m3	2.0	0.94	1.61		02/09/20 15:34	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.9	1.6	1.61		02/09/20 15:34	106-46-7	
Dichlorodifluoromethane	3.2	ug/m3	1.6	0.47	1.61		02/09/20 15:34	75-71-8	
1,1-Dichloroethane	<0.36	ug/m3	1.3	0.36	1.61		02/09/20 15:34	75-34-3	
1,2-Dichloroethane	<0.24	ug/m3	0.66	0.24	1.61		02/09/20 15:34	107-06-2	
1,1-Dichloroethene	<0.44	ug/m3	1.3	0.44	1.61		02/09/20 15:34	75-35-4	
cis-1,2-Dichloroethene	<0.35	ug/m3	1.3	0.35	1.61		02/09/20 15:34	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.3	0.46	1.61		02/09/20 15:34	156-60-5	
1,2-Dichloropropane	<0.37	ug/m3	1.5	0.37	1.61		02/09/20 15:34	78-87-5	
cis-1,3-Dichloropropene	<0.49	ug/m3	1.5	0.49	1.61		02/09/20 15:34	10061-01-5	
trans-1,3-Dichloropropene	<0.71	ug/m3	1.5	0.71	1.61		02/09/20 15:34	10061-02-6	
Dichlorotetrafluoroethane	<0.70	ug/m3	2.3	0.70	1.61		02/09/20 15:34	76-14-2	
Ethanol	38.0	ug/m3	3.1	1.3	1.61		02/09/20 15:34	64-17-5	
Ethyl acetate	2.8	ug/m3	1.2	0.31	1.61		02/09/20 15:34	141-78-6	
Ethylbenzene	1.1J	ug/m3	1.4	0.49	1.61		02/09/20 15:34	100-41-4	
4-Ethyltoluene	<0.92	ug/m3	4.0	0.92	1.61		02/09/20 15:34	622-96-8	
n-Heptane	<0.61	ug/m3	1.3	0.61	1.61		02/09/20 15:34	142-82-5	
Hexachloro-1,3-butadiene	<3.2	ug/m3	8.7	3.2	1.61		02/09/20 15:34	87-68-3	
n-Hexane	0.87J	ug/m3	1.2	0.50	1.61		02/09/20 15:34	110-54-3	
2-Hexanone	<1.2	ug/m3	6.7	1.2	1.61		02/09/20 15:34	591-78-6	
Methylene Chloride	<1.9	ug/m3	5.7	1.9	1.61		02/09/20 15:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.83	ug/m3	6.7	0.83	1.61		02/09/20 15:34	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/m3	5.9	1.1	1.61		02/09/20 15:34	1634-04-4	
Naphthalene	<2.1	ug/m3	4.3	2.1	1.61		02/09/20 15:34	91-20-3	
2-Propanol	41.4	ug/m3	4.0	1.1	1.61		02/09/20 15:34	67-63-0	
Propylene	0.73	ug/m3	0.56	0.23	1.61		02/09/20 15:34	115-07-1	
Styrene	<0.55	ug/m3	1.4	0.55	1.61		02/09/20 15:34	100-42-5	
1,1,2,2-Tetrachloroethane	<0.50	ug/m3	1.1	0.50	1.61		02/09/20 15:34	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507761

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SS-1 Lab ID: 10507761001 Collected: 02/06/20 11:11 Received: 02/07/20 09:45 Matrix: Air									
Analytical Method: TO-15									
Tetrachloroethene	1.0J	ug/m3	1.1	0.51	1.61		02/09/20 15:34	127-18-4	
Tetrahydrofuran	<0.42	ug/m3	0.97	0.42	1.61		02/09/20 15:34	109-99-9	
Toluene	3.3	ug/m3	1.2	0.57	1.61		02/09/20 15:34	108-88-3	
1,2,4-Trichlorobenzene	<6.0	ug/m3	12.1	6.0	1.61		02/09/20 15:34	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/m3	1.8	0.50	1.61		02/09/20 15:34	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/m3	0.89	0.39	1.61		02/09/20 15:34	79-00-5	
Trichloroethene	<0.41	ug/m3	0.88	0.41	1.61		02/09/20 15:34	79-01-6	
Trichlorofluoromethane	1.7J	ug/m3	1.8	0.59	1.61		02/09/20 15:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.91	ug/m3	2.5	0.91	1.61		02/09/20 15:34	76-13-1	
1,2,4-Trimethylbenzene	1.3J	ug/m3	1.6	0.73	1.61		02/09/20 15:34	95-63-6	
1,3,5-Trimethylbenzene	0.94J	ug/m3	1.6	0.64	1.61		02/09/20 15:34	108-67-8	
Vinyl acetate	<0.43	ug/m3	1.2	0.43	1.61		02/09/20 15:34	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		02/09/20 15:34	75-01-4	
m&p-Xylene	4.7	ug/m3	2.8	1.1	1.61		02/09/20 15:34	179601-23-1	
o-Xylene	1.6	ug/m3	1.4	0.55	1.61		02/09/20 15:34	95-47-6	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SS-5 Lab ID: 10507761002 Collected: 02/06/20 11:14 Received: 02/07/20 09:45 Matrix: Air									
Analytical Method: TO-15									
Acetone	9.6	ug/m3	3.6	1.8	1.49		02/09/20 16:02	67-64-1	
Benzene	0.73	ug/m3	0.48	0.23	1.49		02/09/20 16:02	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.8	1.49		02/09/20 16:02	100-44-7	
Bromodichloromethane	<0.55	ug/m3	2.0	0.55	1.49		02/09/20 16:02	75-27-4	
Bromoform	<2.1	ug/m3	7.8	2.1	1.49		02/09/20 16:02	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	0.34	1.49		02/09/20 16:02	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	0.19	1.49		02/09/20 16:02	106-99-0	
2-Butanone (MEK)	4.5	ug/m3	4.5	0.55	1.49		02/09/20 16:02	78-93-3	
Carbon disulfide	1.8	ug/m3	0.94	0.33	1.49		02/09/20 16:02	75-15-0	
Carbon tetrachloride	<0.64	ug/m3	1.9	0.64	1.49		02/09/20 16:02	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	0.41	1.49		02/09/20 16:02	108-90-7	
Chloroethane	<0.39	ug/m3	0.80	0.39	1.49		02/09/20 16:02	75-00-3	
Chloroform	<0.29	ug/m3	0.74	0.29	1.49		02/09/20 16:02	67-66-3	
Chloromethane	0.45J	ug/m3	0.63	0.23	1.49		02/09/20 16:02	74-87-3	
Cyclohexane	0.67J	ug/m3	2.6	0.53	1.49		02/09/20 16:02	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.49		02/09/20 16:02	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	0.55	1.49		02/09/20 16:02	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	0.74	1.49		02/09/20 16:02	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	0.87	1.49		02/09/20 16:02	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.6	1.5	1.49		02/09/20 16:02	106-46-7	
Dichlorodifluoromethane	3.0	ug/m3	1.5	0.44	1.49		02/09/20 16:02	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.2	0.34	1.49		02/09/20 16:02	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.61	0.22	1.49		02/09/20 16:02	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507761

Sample: SS-5 **Lab ID: 10507761002** Collected: 02/06/20 11:14 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.49		02/09/20 16:02	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.49		02/09/20 16:02	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.49		02/09/20 16:02	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	0.34	1.49		02/09/20 16:02	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	0.45	1.49		02/09/20 16:02	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	0.66	1.49		02/09/20 16:02	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	0.65	1.49		02/09/20 16:02	76-14-2	
Ethanol	43.9	ug/m3	2.9	1.2	1.49		02/09/20 16:02	64-17-5	
Ethyl acetate	2.8	ug/m3	1.1	0.28	1.49		02/09/20 16:02	141-78-6	
Ethylbenzene	1.5	ug/m3	1.3	0.45	1.49		02/09/20 16:02	100-41-4	
4-Ethyltoluene	<0.85	ug/m3	3.7	0.85	1.49		02/09/20 16:02	622-96-8	
n-Heptane	0.80J	ug/m3	1.2	0.57	1.49		02/09/20 16:02	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	2.9	1.49		02/09/20 16:02	87-68-3	
n-Hexane	<0.46	ug/m3	1.1	0.46	1.49		02/09/20 16:02	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.1	1.49		02/09/20 16:02	591-78-6	
Methylene Chloride	<1.8	ug/m3	5.3	1.8	1.49		02/09/20 16:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.2	0.77	1.49		02/09/20 16:02	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	0.99	1.49		02/09/20 16:02	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.49		02/09/20 16:02	91-20-3	
2-Propanol	3.2J	ug/m3	3.7	1.0	1.49		02/09/20 16:02	67-63-0	
Propylene	<0.21	ug/m3	0.52	0.21	1.49		02/09/20 16:02	115-07-1	
Styrene	<0.51	ug/m3	1.3	0.51	1.49		02/09/20 16:02	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	1.0	0.46	1.49		02/09/20 16:02	79-34-5	
Tetrachloroethene	3.9	ug/m3	1.0	0.47	1.49		02/09/20 16:02	127-18-4	
Tetrahydrofuran	<0.39	ug/m3	0.89	0.39	1.49		02/09/20 16:02	109-99-9	
Toluene	4.7	ug/m3	1.1	0.52	1.49		02/09/20 16:02	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	5.5	1.49		02/09/20 16:02	120-82-1	
1,1,1-Trichloroethane	<0.46	ug/m3	1.7	0.46	1.49		02/09/20 16:02	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.83	0.36	1.49		02/09/20 16:02	79-00-5	
Trichloroethene	<0.38	ug/m3	0.81	0.38	1.49		02/09/20 16:02	79-01-6	
Trichlorofluoromethane	1.6J	ug/m3	1.7	0.55	1.49		02/09/20 16:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	0.84	1.49		02/09/20 16:02	76-13-1	
1,2,4-Trimethylbenzene	2.3	ug/m3	1.5	0.67	1.49		02/09/20 16:02	95-63-6	
1,3,5-Trimethylbenzene	1.3J	ug/m3	1.5	0.59	1.49		02/09/20 16:02	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	0.40	1.49		02/09/20 16:02	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		02/09/20 16:02	75-01-4	
m&p-Xylene	5.8	ug/m3	2.6	1.0	1.49		02/09/20 16:02	179601-23-1	
o-Xylene	2.0	ug/m3	1.3	0.51	1.49		02/09/20 16:02	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10507761

QC Batch: 659083 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10507761001, 10507761002

METHOD BLANK: 3537594 Matrix: Air
Associated Lab Samples: 10507761001, 10507761002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	0.56	02/09/20 11:16	
1,1,2,2-Tetrachloroethane	ug/m3	<0.15	0.35	02/09/20 11:16	
1,1,2-Trichloroethane	ug/m3	<0.12	0.28	02/09/20 11:16	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.28	0.78	02/09/20 11:16	
1,1-Dichloroethane	ug/m3	<0.11	0.41	02/09/20 11:16	
1,1-Dichloroethene	ug/m3	<0.14	0.40	02/09/20 11:16	
1,2,4-Trichlorobenzene	ug/m3	<1.9	3.8	02/09/20 11:16	
1,2,4-Trimethylbenzene	ug/m3	<0.23	0.50	02/09/20 11:16	
1,2-Dibromoethane (EDB)	ug/m3	<0.18	0.39	02/09/20 11:16	
1,2-Dichlorobenzene	ug/m3	<0.25	0.61	02/09/20 11:16	
1,2-Dichloroethane	ug/m3	<0.075	0.21	02/09/20 11:16	
1,2-Dichloropropane	ug/m3	<0.12	0.47	02/09/20 11:16	
1,3,5-Trimethylbenzene	ug/m3	<0.20	0.50	02/09/20 11:16	
1,3-Butadiene	ug/m3	<0.064	0.22	02/09/20 11:16	
1,3-Dichlorobenzene	ug/m3	<0.29	0.61	02/09/20 11:16	
1,4-Dichlorobenzene	ug/m3	<0.50	1.5	02/09/20 11:16	
2-Butanone (MEK)	ug/m3	<0.18	1.5	02/09/20 11:16	
2-Hexanone	ug/m3	<0.37	2.1	02/09/20 11:16	
2-Propanol	ug/m3	<0.35	1.2	02/09/20 11:16	
4-Ethyltoluene	ug/m3	<0.28	1.2	02/09/20 11:16	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.26	2.1	02/09/20 11:16	
Acetone	ug/m3	<0.60	1.2	02/09/20 11:16	
Benzene	ug/m3	<0.076	0.16	02/09/20 11:16	
Benzyl chloride	ug/m3	<0.60	1.3	02/09/20 11:16	
Bromodichloromethane	ug/m3	<0.18	0.68	02/09/20 11:16	
Bromoform	ug/m3	<0.71	2.6	02/09/20 11:16	
Bromomethane	ug/m3	<0.11	0.39	02/09/20 11:16	
Carbon disulfide	ug/m3	<0.11	0.32	02/09/20 11:16	
Carbon tetrachloride	ug/m3	<0.21	0.64	02/09/20 11:16	
Chlorobenzene	ug/m3	<0.14	0.47	02/09/20 11:16	
Chloroethane	ug/m3	<0.13	0.27	02/09/20 11:16	
Chloroform	ug/m3	<0.098	0.25	02/09/20 11:16	
Chloromethane	ug/m3	<0.078	0.21	02/09/20 11:16	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	02/09/20 11:16	
cis-1,3-Dichloropropene	ug/m3	<0.15	0.46	02/09/20 11:16	
Cyclohexane	ug/m3	<0.18	0.88	02/09/20 11:16	
Dibromochloromethane	ug/m3	<0.36	0.86	02/09/20 11:16	
Dichlorodifluoromethane	ug/m3	<0.15	0.50	02/09/20 11:16	
Dichlorotetrafluoroethane	ug/m3	<0.22	0.71	02/09/20 11:16	
Ethanol	ug/m3	<0.41	0.96	02/09/20 11:16	
Ethyl acetate	ug/m3	<0.095	0.37	02/09/20 11:16	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507761

METHOD BLANK: 3537594

Matrix: Air

Associated Lab Samples: 10507761001, 10507761002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.15	0.44	02/09/20 11:16	
Hexachloro-1,3-butadiene	ug/m3	<0.98	2.7	02/09/20 11:16	
m&p-Xylene	ug/m3	<0.35	0.88	02/09/20 11:16	
Methyl-tert-butyl ether	ug/m3	<0.33	1.8	02/09/20 11:16	
Methylene Chloride	ug/m3	<0.60	1.8	02/09/20 11:16	
n-Heptane	ug/m3	<0.19	0.42	02/09/20 11:16	
n-Hexane	ug/m3	<0.16	0.36	02/09/20 11:16	
Naphthalene	ug/m3	<0.66	1.3	02/09/20 11:16	
o-Xylene	ug/m3	<0.17	0.44	02/09/20 11:16	
Propylene	ug/m3	<0.070	0.18	02/09/20 11:16	
Styrene	ug/m3	<0.17	0.43	02/09/20 11:16	
Tetrachloroethene	ug/m3	<0.16	0.34	02/09/20 11:16	
Tetrahydrofuran	ug/m3	<0.13	0.30	02/09/20 11:16	
Toluene	ug/m3	<0.18	0.38	02/09/20 11:16	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	02/09/20 11:16	
trans-1,3-Dichloropropene	ug/m3	<0.22	0.46	02/09/20 11:16	
Trichloroethene	ug/m3	<0.13	0.27	02/09/20 11:16	
Trichlorofluoromethane	ug/m3	<0.18	0.57	02/09/20 11:16	
Vinyl acetate	ug/m3	<0.14	0.36	02/09/20 11:16	
Vinyl chloride	ug/m3	<0.063	0.13	02/09/20 11:16	

LABORATORY CONTROL SAMPLE: 3537595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	61.5	108	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	73.1	102	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	62.5	109	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	86.1	107	70-130	
1,1-Dichloroethane	ug/m3	42.7	46.4	109	70-130	
1,1-Dichloroethene	ug/m3	41.4	45.9	111	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	135	87	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	56.8	110	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	88.1	110	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	70.8	112	70-136	
1,2-Dichloroethane	ug/m3	42.4	45.9	108	70-130	
1,2-Dichloropropane	ug/m3	48.6	51.0	105	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	63.9	124	70-136	
1,3-Butadiene	ug/m3	23.3	24.3	104	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	73.1	115	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	74.6	118	70-145	
2-Butanone (MEK)	ug/m3	31.4	31.5	100	61-130	
2-Hexanone	ug/m3	42.8	46.6	109	70-138	
2-Propanol	ug/m3	119	134	113	70-136	
4-Ethyltoluene	ug/m3	52.4	65.4	125	70-142	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10507761

LABORATORY CONTROL SAMPLE: 3537595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	51.0	117	70-134	
Acetone	ug/m3	126	121	96	59-137	
Benzene	ug/m3	33.5	33.2	99	70-133	
Benzyl chloride	ug/m3	55.1	62.4	113	70-139	
Bromodichloromethane	ug/m3	71.5	81.6	114	70-130	
Bromoform	ug/m3	110	125	114	60-140	
Bromomethane	ug/m3	41.3	41.6	101	70-131	
Carbon disulfide	ug/m3	33.3	34.0	102	70-130	
Carbon tetrachloride	ug/m3	66.2	79.1	119	70-133	
Chlorobenzene	ug/m3	48.3	52.0	108	70-131	
Chloroethane	ug/m3	28.1	29.4	105	70-141	
Chloroform	ug/m3	51.1	52.9	104	70-130	
Chloromethane	ug/m3	21.9	22.5	103	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	44.7	107	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	55.3	116	70-138	
Cyclohexane	ug/m3	36.7	39.9	109	70-133	
Dibromochloromethane	ug/m3	90.7	101	111	70-139	
Dichlorodifluoromethane	ug/m3	51.6	55.8	108	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	78.5	108	65-133	
Ethanol	ug/m3	103	99.8	97	65-135	
Ethyl acetate	ug/m3	38.6	40.9	106	70-135	
Ethylbenzene	ug/m3	45.6	50.2	110	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	129	116	70-134	
m&p-Xylene	ug/m3	91.2	106	116	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	40.7	106	70-131	
Methylene Chloride	ug/m3	182	181	100	69-130	
n-Heptane	ug/m3	43.6	44.6	102	70-130	
n-Hexane	ug/m3	37.6	38.2	102	70-131	
Naphthalene	ug/m3	57.7	40.8	71	63-130	
o-Xylene	ug/m3	45.5	52.9	116	70-135	
Propylene	ug/m3	18.2	16.6	91	63-139	
Styrene	ug/m3	44.9	49.2	110	70-143	
Tetrachloroethene	ug/m3	71	77.3	109	70-136	
Tetrahydrofuran	ug/m3	31.5	33.7	107	70-137	
Toluene	ug/m3	39.5	43.1	109	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	42.8	101	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	55.0	115	70-139	
Trichloroethene	ug/m3	56.3	62.5	111	70-132	
Trichlorofluoromethane	ug/m3	59.7	67.9	114	65-136	
Vinyl acetate	ug/m3	34.5	37.6	109	66-140	
Vinyl chloride	ug/m3	26.7	26.4	99	68-141	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507761

SAMPLE DUPLICATE: 3537741

Parameter	Units	10507760001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichloroethane	ug/m3	<0.34	<0.34		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.78	<0.78		25	
1,1-Dichloroethane	ug/m3	<0.31	<0.31		25	
1,1-Dichloroethene	ug/m3	<0.38	<0.38		25	
1,2,4-Trichlorobenzene	ug/m3	<5.2	<5.2		25	
1,2,4-Trimethylbenzene	ug/m3	<0.63	<0.63		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.51	<0.51		25	
1,2-Dichlorobenzene	ug/m3	<0.69	<0.69		25	
1,2-Dichloroethane	ug/m3	<0.21	<0.21		25	
1,2-Dichloropropane	ug/m3	<0.32	<0.32		25	
1,3,5-Trimethylbenzene	ug/m3	<0.55	<0.55		25	
1,3-Butadiene	ug/m3	<0.18	<0.18		25	
1,3-Dichlorobenzene	ug/m3	<0.81	<0.81		25	
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4		25	
2-Butanone (MEK)	ug/m3	<0.51	<0.51		25	
2-Hexanone	ug/m3	<1.0	<1.0		25	
2-Propanol	ug/m3	2.4J	2.2J		25	
4-Ethyltoluene	ug/m3	<0.79	<0.79		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.72	<0.72		25	
Acetone	ug/m3	5.0	4.3	15	25	
Benzene	ug/m3	0.72	0.70	2	25	
Benzyl chloride	ug/m3	<1.7	<1.7		25	
Bromodichloromethane	ug/m3	<0.51	<0.51		25	
Bromoform	ug/m3	<2.0	<2.0		25	
Bromomethane	ug/m3	<0.32	<0.32		25	
Carbon disulfide	ug/m3	<0.30	<0.30		25	
Carbon tetrachloride	ug/m3	0.62J	<0.60		25	
Chlorobenzene	ug/m3	<0.38	<0.38		25	
Chloroethane	ug/m3	<0.36	<0.36		25	
Chloroform	ug/m3	<0.27	<0.27		25	
Chloromethane	ug/m3	1.0	0.77	27	25	R1
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		25	
cis-1,3-Dichloropropene	ug/m3	<0.42	<0.42		25	
Cyclohexane	ug/m3	<0.49	<0.49		25	
Dibromochloromethane	ug/m3	<1.0	<1.0		25	
Dichlorodifluoromethane	ug/m3	3.4	3.2	3	25	
Dichlorotetrafluoroethane	ug/m3	<0.61	<0.61		25	
Ethanol	ug/m3	9.1	8.0	13	25	
Ethyl acetate	ug/m3	<0.26	<0.26		25	
Ethylbenzene	ug/m3	<0.42	<0.42		25	
Hexachloro-1,3-butadiene	ug/m3	<2.7	<2.7		25	
m&p-Xylene	ug/m3	<0.97	<0.97		25	
Methyl-tert-butyl ether	ug/m3	<0.92	<0.92		25	
Methylene Chloride	ug/m3	1.8J	<1.7		25	
n-Heptane	ug/m3	<0.53	<0.53		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507761

SAMPLE DUPLICATE: 3537741

Parameter	Units	10507760001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.56J	0.47J		25	
Naphthalene	ug/m3	<1.8	<1.8		25	
o-Xylene	ug/m3	<0.48	<0.48		25	
Propylene	ug/m3	<0.19	<0.19		25	
Styrene	ug/m3	<0.48	<0.48		25	
Tetrachloroethene	ug/m3	<0.44	<0.44		25	
Tetrahydrofuran	ug/m3	<0.36	<0.36		25	
Toluene	ug/m3	0.65J	0.57J		25	
trans-1,2-Dichloroethene	ug/m3	<0.40	<0.40		25	
trans-1,3-Dichloropropene	ug/m3	<0.61	<0.61		25	
Trichloroethene	ug/m3	<0.35	<0.35		25	
Trichlorofluoromethane	ug/m3	1.7	1.8	3	25	
Vinyl acetate	ug/m3	<0.38	<0.38		25	
Vinyl chloride	ug/m3	<0.18	<0.18		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 60602996 Grafton VI

Pace Project No.: 10507761

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60602996 Grafton VI

Pace Project No.: 10507761

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10507761001	SS-1	TO-15	659083		
10507761002	SS-5	TO-15	659083		

REPORT OF LABORATORY ANALYSIS

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10507761

48316

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other Location of Sampling by State WI Reporting Units ug/m ³ <input checked="" type="checkbox"/> mg/m ³ ___ PPBV ___ PPMV ___ Other ___ Report Level: I. ___ II. ___ III. ___ IV. ___ Other ___			
Company: AECOM		Report To: AECOM		Attention: USAPIMAGING@aecom.com					
Address: 1555 N. Rivercenter Dr Milwaukee, WI 53212		Copy To: Lanette Altenbach lanette.altenbach@aecom.com		Company Name: 11					
Email To: tory.schultz@aecom.com		Purchase Order No.:		Address: 11					
Phone: 414-690-8403 Fax: 414-690-8403		Project Name: Grafton VI		Pace Quote Reference:					
Requested Due Date/TAT: 5/12		Project Number: 60602996		Pace Project Manager/Sales Rep.		Pace Profile #: 40280			

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:						Pace Lab ID		
					COMPOSITE START		COMPOSITE - END/GRAB						PH10	3c - Fixed Gas (%)	TO-3 BTX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs		TO-15 Short List BTX	TO-15 Short List Chlorinated
					DATE	TIME	DATE	TIME													
1	SS-1	6LC	6LC		02.05.20	1039	02.06.20	1111	-26	-5	1698	2374						X	001		
2	SS-5	6LC	6LC		02.05.20	1033	02.06.20	1114	-29	-3	601	2424						X	002		
3		6LC																			
4		6LC																			
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<i>[Signature]</i>	02.06.20	1700	<i>[Signature]</i>	2/7/20	945		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

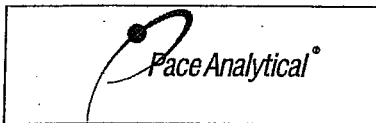
SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Connor Mulcahy**

SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY) **02/06/20**

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt

Document No.:
F-MN-A-106-rev.20

Document Revised: 19Nov2019
Page 1 of 1

Pace Analytical Services -
Minneapolis

**Air Sample Condition
Upon Receipt**

Client Name:
AECOM

Project #:

WO#: 10507761

Courier: Fed Ex UPS USPS Client
 Pace SpeedDee Commercial See Exception

PM: CT1 Due Date: 02/14/20
CLIENT: AECOM-WI

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermometer Used: G87A9170600254 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 2/7/20 CMY

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH) -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>(N)</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SS-1	1698	2374	-5	15					
SS-5	0601	2424	-3	15					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No


Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

Carolynne Trout

Date: 2/7/20

	Document Name: SCUR Exception Form – Coolers Above 6°C	Document Revised: 08Apr2019 Page 1 of 1
	Document No.: F-MN-C-298-Rev.02	Issuing Authority: Pace Minnesota Quality Office

During sample triage, this form is to be placed in each cooler that arrives above 6.0 degrees Celsius

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																																							
			If yes, indicate who was contacted/date/time. If no, indicate reason why.																																							
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.																																							
			No Temp Blank <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Read Temp	Corrected Temp	Average Temp																																				
Read Temp	Corrected Temp	Average Temp																																								
			Other Issues <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Issue Type:</th> <th>Container Type</th> <th># of Containers</th> </tr> <tr> <th>Sample ID</th> <td></td> <td></td> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Issue Type:	Container Type	# of Containers	Sample ID																																			
Issue Type:	Container Type	# of Containers																																								
Sample ID																																										

Tracking Number/Temperature		
1083	0282	9201
1083	0282	9234
1083	0282	9223
1083	0282	9212

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	



1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: AECOM-Wisconsin
Client Project ID: 60602996 Grafton VI
Client PO#: 60602996

Pace Project Manager: Carolynne Trout
Phone 1(612)607-6351
carolynne.trout@pacelabs.com

Pace Analytical Project ID: 10507760
Samples Received: February 7, 2020 09:45 AM
Estimated Completion: February 14, 2020

CC: Lanette Altenbach

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
OA-1	10507760001	Air	02/06/20 10:14	EZ Canister Assembly TO15 MSV AIR
IA-1	10507760002	Air	02/06/20 10:18	EZ Canister Assembly TO15 MSV AIR
SS-3	10507760003	Air	02/06/20 10:57	EZ Canister Assembly TO15 MSV AIR
SS-2	10507760004	Air	02/06/20 10:57	EZ Canister Assembly TO15 MSV AIR

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Confidentiality Statement: The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.

Thank you for choosing Pace Analytical Services, LLC.

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting	
			Limit	Units
OA-1	TO15 MSV AIR	Dichlorodifluoromethane	1.01	ug/m3
		Chloromethane	0.42	ug/m3
		Dichlorotetrafluoroethane	1.42	ug/m3
		Vinyl chloride	0.26	ug/m3
		Bromomethane	0.789	ug/m3
		Chloroethane	0.536	ug/m3
		Trichlorofluoromethane	1.14	ug/m3
		1,1-Dichloroethene	0.806	ug/m3
		1,1,2-Trichlorotrifluoroethane	1.56	ug/m3
		Methylene Chloride	3.53	ug/m3
		1,1-Dichloroethane	0.823	ug/m3
		cis-1,2-Dichloroethene	0.806	ug/m3
		Chloroform	0.496	ug/m3
		1,1,1-Trichloroethane	1.11	ug/m3
		1,1,2-Trichloroethane	0.555	ug/m3
		1,2-Dichloroethane	0.411	ug/m3
		Benzene	0.325	ug/m3
		Carbon tetrachloride	1.28	ug/m3
		1,2-Dichloropropane	0.939	ug/m3
		Trichloroethene	0.546	ug/m3
		cis-1,3-Dichloropropene	0.923	ug/m3
		trans-1,3-Dichloropropene	0.923	ug/m3
		Toluene	0.766	ug/m3
		1,2-Dibromoethane (EDB)	0.781	ug/m3
		Tetrachloroethene	0.689	ug/m3
		Chlorobenzene	0.936	ug/m3
		Ethylbenzene	0.883	ug/m3
		m&p-Xylene	1.77	ug/m3
		o-Xylene	0.883	ug/m3
		Styrene	0.866	ug/m3
		1,1,2,2-Tetrachloroethane	0.698	ug/m3
		1,3,5-Trimethylbenzene	0.999	ug/m3
		1,2,4-Trimethylbenzene	0.999	ug/m3
		1,3-Dichlorobenzene	1.22	ug/m3
		1,4-Dichlorobenzene	3.06	ug/m3
		1,2-Dichlorobenzene	1.22	ug/m3
		1,2,4-Trichlorobenzene	7.54	ug/m3
		Hexachloro-1,3-butadiene	5.42	ug/m3
		Tetrahydrofuran	0.6	ug/m3
		Acetone	2.41	ug/m3
		2-Butanone (MEK)	3	ug/m3
		n-Hexane	0.716	ug/m3
Methyl-tert-butyl ether	3.66	ug/m3		
Dibromochloromethane	1.73	ug/m3		
1,3-Butadiene	0.45	ug/m3		
Carbon disulfide	0.633	ug/m3		
Vinyl acetate	0.716	ug/m3		
Cyclohexane	1.75	ug/m3		
Ethyl acetate	0.733	ug/m3		
4-Methyl-2-pentanone (MIBK)	4.16	ug/m3		
2-Hexanone	4.16	ug/m3		

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, LLC.

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting	
			Limit	Units
IA-1	TO15 MSV AIR	Bromoform	5.25	ug/m3
		trans-1,2-Dichloroethene	0.806	ug/m3
		Bromodichloromethane	1.36	ug/m3
		n-Heptane	0.833	ug/m3
		Propylene	0.35	ug/m3
		4-Ethyltoluene	2.5	ug/m3
		Naphthalene	2.66	ug/m3
		Ethanol	1.92	ug/m3
		2-Propanol	2.5	ug/m3
		Benzyl chloride	2.63	ug/m3
		Dichlorodifluoromethane	1.01	ug/m3
		Chloromethane	0.42	ug/m3
		Dichlorotetrafluoroethane	1.42	ug/m3
		Vinyl chloride	0.26	ug/m3
		Bromomethane	0.789	ug/m3
		Chloroethane	0.536	ug/m3
		Trichlorofluoromethane	1.14	ug/m3
		1,1-Dichloroethene	0.806	ug/m3
		1,1,2-Trichlorotrifluoroethane	1.56	ug/m3
		Methylene Chloride	3.53	ug/m3
		1,1-Dichloroethane	0.823	ug/m3
		cis-1,2-Dichloroethene	0.806	ug/m3
		Chloroform	0.496	ug/m3
		1,1,1-Trichloroethane	1.11	ug/m3
		1,1,2-Trichloroethane	0.555	ug/m3
		1,2-Dichloroethane	0.411	ug/m3
		Benzene	0.325	ug/m3
		Carbon tetrachloride	1.28	ug/m3
		1,2-Dichloropropane	0.939	ug/m3
		Trichloroethene	0.546	ug/m3
		cis-1,3-Dichloropropene	0.923	ug/m3
		trans-1,3-Dichloropropene	0.923	ug/m3
		Toluene	0.766	ug/m3
		1,2-Dibromoethane (EDB)	0.781	ug/m3
		Tetrachloroethene	0.689	ug/m3
		Chlorobenzene	0.936	ug/m3
		Ethylbenzene	0.883	ug/m3
		m&p-Xylene	1.77	ug/m3
		o-Xylene	0.883	ug/m3
		Styrene	0.866	ug/m3
		1,1,2,2-Tetrachloroethane	0.698	ug/m3
1,3,5-Trimethylbenzene	0.999	ug/m3		
1,2,4-Trimethylbenzene	0.999	ug/m3		
1,3-Dichlorobenzene	1.22	ug/m3		
1,4-Dichlorobenzene	3.06	ug/m3		
1,2-Dichlorobenzene	1.22	ug/m3		
1,2,4-Trichlorobenzene	7.54	ug/m3		
Hexachloro-1,3-butadiene	5.42	ug/m3		
Tetrahydrofuran	0.6	ug/m3		
Acetone	2.41	ug/m3		
2-Butanone (MEK)	3	ug/m3		

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, LLC.

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting	
			Limit	Units
SS-3	TO15 MSV AIR	n-Hexane	0.716	ug/m3
		Methyl-tert-butyl ether	3.66	ug/m3
		Dibromochloromethane	1.73	ug/m3
		1,3-Butadiene	0.45	ug/m3
		Carbon disulfide	0.633	ug/m3
		Vinyl acetate	0.716	ug/m3
		Cyclohexane	1.75	ug/m3
		Ethyl acetate	0.733	ug/m3
		4-Methyl-2-pentanone (MIBK)	4.16	ug/m3
		2-Hexanone	4.16	ug/m3
		Bromoform	5.25	ug/m3
		trans-1,2-Dichloroethene	0.806	ug/m3
		Bromodichloromethane	1.36	ug/m3
		n-Heptane	0.833	ug/m3
		Propylene	0.35	ug/m3
		4-Ethyltoluene	2.5	ug/m3
		Naphthalene	2.66	ug/m3
		Ethanol	1.92	ug/m3
		2-Propanol	2.5	ug/m3
		Benzyl chloride	2.63	ug/m3
		Dichlorodifluoromethane	1.01	ug/m3
		Chloromethane	0.42	ug/m3
		Dichlorotetrafluoroethane	1.42	ug/m3
		Vinyl chloride	0.26	ug/m3
		Bromomethane	0.789	ug/m3
		Chloroethane	0.536	ug/m3
		Trichlorofluoromethane	1.14	ug/m3
		1,1-Dichloroethene	0.806	ug/m3
		1,1,2-Trichlorotrifluoroethane	1.56	ug/m3
		Methylene Chloride	3.53	ug/m3
		1,1-Dichloroethane	0.823	ug/m3
		cis-1,2-Dichloroethene	0.806	ug/m3
		Chloroform	0.496	ug/m3
		1,1,1-Trichloroethane	1.11	ug/m3
		1,1,2-Trichloroethane	0.555	ug/m3
		1,2-Dichloroethane	0.411	ug/m3
		Benzene	0.325	ug/m3
		Carbon tetrachloride	1.28	ug/m3
		1,2-Dichloropropane	0.939	ug/m3
		Trichloroethene	0.546	ug/m3
		cis-1,3-Dichloropropene	0.923	ug/m3
trans-1,3-Dichloropropene	0.923	ug/m3		
Toluene	0.766	ug/m3		
1,2-Dibromoethane (EDB)	0.781	ug/m3		
Tetrachloroethene	0.689	ug/m3		
Chlorobenzene	0.936	ug/m3		
Ethylbenzene	0.883	ug/m3		
m&p-Xylene	1.77	ug/m3		
o-Xylene	0.883	ug/m3		
Styrene	0.866	ug/m3		
1,1,2,2-Tetrachloroethane	0.698	ug/m3		

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, LLC.

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting	
			Limit	Units
SS-2	TO15 MSV AIR	1,3,5-Trimethylbenzene	0.999	ug/m3
		1,2,4-Trimethylbenzene	0.999	ug/m3
		1,3-Dichlorobenzene	1.22	ug/m3
		1,4-Dichlorobenzene	3.06	ug/m3
		1,2-Dichlorobenzene	1.22	ug/m3
		1,2,4-Trichlorobenzene	7.54	ug/m3
		Hexachloro-1,3-butadiene	5.42	ug/m3
		Tetrahydrofuran	0.6	ug/m3
		Acetone	2.41	ug/m3
		2-Butanone (MEK)	3	ug/m3
		n-Hexane	0.716	ug/m3
		Methyl-tert-butyl ether	3.66	ug/m3
		Dibromochloromethane	1.73	ug/m3
		1,3-Butadiene	0.45	ug/m3
		Carbon disulfide	0.633	ug/m3
		Vinyl acetate	0.716	ug/m3
		Cyclohexane	1.75	ug/m3
		Ethyl acetate	0.733	ug/m3
		4-Methyl-2-pentanone (MIBK)	4.16	ug/m3
		2-Hexanone	4.16	ug/m3
		Bromoform	5.25	ug/m3
		trans-1,2-Dichloroethene	0.806	ug/m3
		Bromodichloromethane	1.36	ug/m3
		n-Heptane	0.833	ug/m3
		Propylene	0.35	ug/m3
		4-Ethyltoluene	2.5	ug/m3
		Naphthalene	2.66	ug/m3
		Ethanol	1.92	ug/m3
		2-Propanol	2.5	ug/m3
		Benzyl chloride	2.63	ug/m3
		Dichlorodifluoromethane	1.01	ug/m3
		Chloromethane	0.42	ug/m3
		Dichlorotetrafluoroethane	1.42	ug/m3
		Vinyl chloride	0.26	ug/m3
		Bromomethane	0.789	ug/m3
		Chloroethane	0.536	ug/m3
		Trichlorofluoromethane	1.14	ug/m3
		1,1-Dichloroethene	0.806	ug/m3
		1,1,2-Trichlorotrifluoroethane	1.56	ug/m3
		Methylene Chloride	3.53	ug/m3
		1,1-Dichloroethane	0.823	ug/m3
		cis-1,2-Dichloroethene	0.806	ug/m3
		Chloroform	0.496	ug/m3
1,1,1-Trichloroethane	1.11	ug/m3		
1,1,2-Trichloroethane	0.555	ug/m3		
1,2-Dichloroethane	0.411	ug/m3		
Benzene	0.325	ug/m3		
Carbon tetrachloride	1.28	ug/m3		
1,2-Dichloropropane	0.939	ug/m3		
Trichloroethene	0.546	ug/m3		
cis-1,3-Dichloropropene	0.923	ug/m3		

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, LLC.

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting	
			Limit	Units
		trans-1,3-Dichloropropene	0.923	ug/m3
		Toluene	0.766	ug/m3
		1,2-Dibromoethane (EDB)	0.781	ug/m3
		Tetrachloroethene	0.689	ug/m3
		Chlorobenzene	0.936	ug/m3
		Ethylbenzene	0.883	ug/m3
		m&p-Xylene	1.77	ug/m3
		o-Xylene	0.883	ug/m3
		Styrene	0.866	ug/m3
		1,1,2,2-Tetrachloroethane	0.698	ug/m3
		1,3,5-Trimethylbenzene	0.999	ug/m3
		1,2,4-Trimethylbenzene	0.999	ug/m3
		1,3-Dichlorobenzene	1.22	ug/m3
		1,4-Dichlorobenzene	3.06	ug/m3
		1,2-Dichlorobenzene	1.22	ug/m3
		1,2,4-Trichlorobenzene	7.54	ug/m3
		Hexachloro-1,3-butadiene	5.42	ug/m3
		Tetrahydrofuran	0.6	ug/m3
		Acetone	2.41	ug/m3
		2-Butanone (MEK)	3	ug/m3
		n-Hexane	0.716	ug/m3
		Methyl-tert-butyl ether	3.66	ug/m3
		Dibromochloromethane	1.73	ug/m3
		1,3-Butadiene	0.45	ug/m3
		Carbon disulfide	0.633	ug/m3
		Vinyl acetate	0.716	ug/m3
		Cyclohexane	1.75	ug/m3
		Ethyl acetate	0.733	ug/m3
		4-Methyl-2-pentanone (MIBK)	4.16	ug/m3
		2-Hexanone	4.16	ug/m3
		Bromoform	5.25	ug/m3
		trans-1,2-Dichloroethene	0.806	ug/m3
		Bromodichloromethane	1.36	ug/m3
		n-Heptane	0.833	ug/m3
		Propylene	0.35	ug/m3
		4-Ethyltoluene	2.5	ug/m3
		Naphthalene	2.66	ug/m3
		Ethanol	1.92	ug/m3
		2-Propanol	2.5	ug/m3
		Benzyl chloride	2.63	ug/m3

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, LLC.



AIR: CHAIN-OF-C

The Chain-of-Custody is a LEGAL DOC

WO#: 10507760



10507760

48405

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other
Company: <u>AELOM</u>	Report To: <u>AELOM</u>	Attention: <u>USAP IMAGING @ AELOM.com</u>	
Address: <u>1555 River Center Dr</u> <u>Milwaukee WI 53212</u>	Copy To: <u>Lanette Altenbach</u> <u>lanette.altenbach@AELOM.com</u>	Company Name: <u>Send</u>	Location of Sampling by State: <u>WI</u>
Email To: <u>torq.schultz@AELOM.com</u>	Purchase Order No.: <u> </u>	Address: <u>Same</u>	
Phone: <u>414.944.6168</u> Fax: <u> </u>	Project Name: <u>Grafton VI</u>	Pace Quote Reference: <u> </u>	Reporting Units ug/m ³ <input type="checkbox"/> mg/m ³ <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV <input type="checkbox"/> Other: <input type="checkbox"/>
Requested Due Date/TAT: <u>STD</u>	Project Number: <u>60602996</u>	Pace Project Manager/Sales Rep: <u>Carolynne Trout</u>	Report Level: II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other <input type="checkbox"/>
		Pace Profile #: <u>40280</u>	

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:							Pace Lab ID		
					COMPOSITE START		COMPOSITE - END/GRAB						PM10	3C - Fixed Gas (%)	TO-15 BTEX	TO-15M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX		TO-15 Short List Chlorinated	TO-15 Short List (other)
					DATE	TIME	DATE	TIME														
1	OA-1		6LC 0.0		02.05.20	1015	02.06.20	1014	30	3	3652	2174					X		001			
2	IA-1		6LL 0.1		02.05.20	1025	02.06.20	1018	30	5	3636	1949					X		002			
3	SS-3		6LL 0.1		02.06.20	1020	02.06.20	1057	28	5	3018	1170					X		003			
4	SS-2		6LL 0.1		02.06.20	1020	02.06.20	1057	30	5	2352	2444					X		004			
5-12	KEO 02.06.20																					

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
	<u>AELOM</u>	<u>02.06.20</u>	<u>1700</u>	<u>[Signature]</u>	<u>2/3/20</u>	<u>145</u>	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Keith Nielson
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 02.06.20

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt

Document No.:
F-MN-A-106-rev.20

Document Revised: 19Nov2019
Page 1 of 1

Pace Analytical Services -
Minneapolis

**Air Sample Condition
Upon Receipt**

Client Name:
AECOM

Project #:
WO#: 10507760

Courier: Fed Ex UPS USPS Client
 Pace SpeedDee Commercial See Exception

PM: CT1 Due Date: 02/14/20
CLIENT: AECOM-WI

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermometer Used: G87A9170600254 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 2/7/20 CMY

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
0A-1	3653	2174	-1	5					
1A-1	3636	1949	-4	5					
SS-3	3018	1170	-4	5					
SS-2	2352	2444	-2.5	5					

CLIENT NOTIFICATION/RESOLUTION


Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trout Date: 2/7/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

	Document Name: SCUR Exception Form – Coolers Above 6°C	Document Revised: 08Apr2019 Page 1 of 1
	Document No.: F-MN-C-298-Rev.02	Issuing Authority: Pace Minnesota Quality Office

During sample triage, this form is to be placed in each cooler that arrives above 6.0 degrees Celsius

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No
			If yes, indicate who was contacted/date/time. If no, indicate reason why.

Multiple Cooler Project? Yes No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature		
1083	0282	9201
1083	0282	9234
1083	0282	9223
1083	0282	9212

Other Issues		
Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

February 11, 2020

Lanette Altenbach
AECOM
1555 N RiverCenter Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60602996 Grafton VI
Pace Project No.: 10507760

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01	Minnesota Dept of Ag Certification #: via MN 027-053-137
Alabama Certification #: 40770	Minnesota Petrofund Certification #: 1240
Alaska Contaminated Sites Certification #: 17-009	Mississippi Certification #: MN00064
Alaska DW Certification #: MN00064	Missouri Certification #: 10100
Arizona Certification #: AZ0014	Montana Certification #: CERT0092
Arkansas DW Certification #: MN00064	Nebraska Certification #: NE-OS-18-06
Arkansas WW Certification #: 88-0680	Nevada Certification #: MN00064
California Certification #: 2929	New Hampshire Certification #: 2081
CNMI Saipan Certification #: MP0003	New Jersey Certification #: MN002
Colorado Certification #: MN00064	New York Certification #: 11647
Connecticut Certification #: PH-0256	North Carolina DW Certification #: 27700
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Carolina WW Certification #: 530
Florida Certification #: E87605	North Dakota Certification #: R-036
Georgia Certification #: 959	Ohio DW Certification #: 41244
Guam EPA Certification #: MN00064	Ohio VAP Certification #: CL101
Hawaii Certification #: MN00064	Oklahoma Certification #: 9507
Idaho Certification #: MN00064	Oregon Primary Certification #: MN300001
Illinois Certification #: 200011	Oregon Secondary Certification #: MN200001
Indiana Certification #: C-MN-01	Pennsylvania Certification #: 68-00563
Iowa Certification #: 368	Puerto Rico Certification #: MN00064
Kansas Certification #: E-10167	South Carolina Certification #:74003001
Kentucky DW Certification #: 90062	Tennessee Certification #: TN02818
Kentucky WW Certification #: 90062	Texas Certification #: T104704192
Louisiana DEQ Certification #: 03086	Utah Certification #: MN00064
Louisiana DW Certification #: MN00064	Vermont Certification #: VT-027053137
Maine Certification #: MN00064	Virginia Certification #: 460163
Maryland Certification #: 322	Washington Certification #: C486
Massachusetts Certification #: M-MN064	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10507760001	OA-1	Air	02/06/20 10:14	02/07/20 09:45
10507760002	IA-1	Air	02/06/20 10:18	02/07/20 09:45
10507760003	SS-3	Air	02/06/20 10:57	02/07/20 09:45
10507760004	SS-2	Air	02/06/20 10:57	02/07/20 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10507760001	OA-1	TO-15	MJL	61	PASI-M
10507760002	IA-1	TO-15	MJL	61	PASI-M
10507760003	SS-3	TO-15	MJL	61	PASI-M
10507760004	SS-2	TO-15	MJL	61	PASI-M

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
10507760001	OA-1					
TO-15	Acetone	5.0	ug/m3	3.3	02/09/20 13:10	
TO-15	Benzene	0.72	ug/m3	0.45	02/09/20 13:10	
TO-15	Carbon tetrachloride	0.62J	ug/m3	1.8	02/09/20 13:10	
TO-15	Chloromethane	1.0	ug/m3	0.58	02/09/20 13:10	
TO-15	Dichlorodifluoromethane	3.4	ug/m3	1.4	02/09/20 13:10	
TO-15	Ethanol	9.1	ug/m3	2.7	02/09/20 13:10	
TO-15	n-Hexane	0.56J	ug/m3	1.0	02/09/20 13:10	
TO-15	Methylene Chloride	1.8J	ug/m3	4.9	02/09/20 13:10	
TO-15	2-Propanol	2.4J	ug/m3	3.5	02/09/20 13:10	
TO-15	Toluene	0.65J	ug/m3	1.1	02/09/20 13:10	
TO-15	Trichlorofluoromethane	1.7	ug/m3	1.6	02/09/20 13:10	
10507760002	IA-1					
TO-15	Acetone	18.3	ug/m3	3.7	02/09/20 14:08	
TO-15	Benzene	0.56	ug/m3	0.50	02/09/20 14:08	
TO-15	2-Butanone (MEK)	1.1J	ug/m3	4.6	02/09/20 14:08	
TO-15	Chloromethane	0.84	ug/m3	0.65	02/09/20 14:08	
TO-15	Dichlorodifluoromethane	2.8	ug/m3	1.6	02/09/20 14:08	
TO-15	Ethanol	112	ug/m3	3.0	02/09/20 14:08	
TO-15	Ethylbenzene	0.52J	ug/m3	1.4	02/09/20 14:08	
TO-15	n-Heptane	0.71J	ug/m3	1.3	02/09/20 14:08	
TO-15	Methylene Chloride	1.9J	ug/m3	5.5	02/09/20 14:08	
TO-15	2-Propanol	10.2	ug/m3	3.9	02/09/20 14:08	
TO-15	Tetrachloroethene	2.5	ug/m3	1.1	02/09/20 14:08	
TO-15	Toluene	3.8	ug/m3	1.2	02/09/20 14:08	
TO-15	Trichlorofluoromethane	7.1	ug/m3	1.8	02/09/20 14:08	
TO-15	m&p-Xylene	2.1J	ug/m3	2.7	02/09/20 14:08	
TO-15	o-Xylene	0.72J	ug/m3	1.4	02/09/20 14:08	
10507760003	SS-3					
TO-15	Acetone	7.5	ug/m3	3.7	02/09/20 14:36	
TO-15	Benzene	0.52	ug/m3	0.50	02/09/20 14:36	
TO-15	2-Butanone (MEK)	4.4J	ug/m3	4.6	02/09/20 14:36	
TO-15	Chloromethane	0.28J	ug/m3	0.65	02/09/20 14:36	
TO-15	Dichlorodifluoromethane	2.3	ug/m3	1.6	02/09/20 14:36	
TO-15	Ethanol	31.6	ug/m3	3.0	02/09/20 14:36	
TO-15	Ethyl acetate	3.0	ug/m3	1.1	02/09/20 14:36	
TO-15	Ethylbenzene	1.5	ug/m3	1.4	02/09/20 14:36	
TO-15	n-Heptane	0.80J	ug/m3	1.3	02/09/20 14:36	
TO-15	2-Propanol	2.4J	ug/m3	3.9	02/09/20 14:36	
TO-15	Tetrachloroethene	335	ug/m3	1.1	02/09/20 14:36	
TO-15	Toluene	3.7	ug/m3	1.2	02/09/20 14:36	
TO-15	Trichlorofluoromethane	2.8	ug/m3	1.8	02/09/20 14:36	
TO-15	1,2,4-Trimethylbenzene	2.0	ug/m3	1.5	02/09/20 14:36	
TO-15	1,3,5-Trimethylbenzene	1.2J	ug/m3	1.5	02/09/20 14:36	
TO-15	m&p-Xylene	5.9	ug/m3	2.7	02/09/20 14:36	
TO-15	o-Xylene	2.0	ug/m3	1.4	02/09/20 14:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10507760004	SS-2					
TO-15	Acetone	8.6	ug/m3	3.7	02/09/20 15:05	
TO-15	Benzene	0.46J	ug/m3	0.49	02/09/20 15:05	
TO-15	2-Butanone (MEK)	5.2	ug/m3	4.6	02/09/20 15:05	
TO-15	Dichlorodifluoromethane	2.8	ug/m3	1.5	02/09/20 15:05	
TO-15	Ethanol	45.1	ug/m3	2.9	02/09/20 15:05	
TO-15	Ethyl acetate	2.1	ug/m3	1.1	02/09/20 15:05	
TO-15	Ethylbenzene	1.1J	ug/m3	1.3	02/09/20 15:05	
TO-15	Methylene Chloride	2.5J	ug/m3	5.4	02/09/20 15:05	
TO-15	2-Propanol	4.9	ug/m3	3.8	02/09/20 15:05	
TO-15	Tetrachloroethene	35.9	ug/m3	1.0	02/09/20 15:05	
TO-15	Toluene	3.1	ug/m3	1.2	02/09/20 15:05	
TO-15	Trichlorofluoromethane	1.6J	ug/m3	1.7	02/09/20 15:05	
TO-15	1,2,4-Trimethylbenzene	1.1J	ug/m3	1.5	02/09/20 15:05	
TO-15	m&p-Xylene	4.5	ug/m3	2.7	02/09/20 15:05	
TO-15	o-Xylene	1.4	ug/m3	1.3	02/09/20 15:05	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Sample: OA-1 **Lab ID: 10507760001** Collected: 02/06/20 10:14 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	5.0	ug/m3	3.3	1.7	1.39		02/09/20 13:10	67-64-1	
Benzene	0.72	ug/m3	0.45	0.21	1.39		02/09/20 13:10	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.7	1.7	1.39		02/09/20 13:10	100-44-7	
Bromodichloromethane	<0.51	ug/m3	1.9	0.51	1.39		02/09/20 13:10	75-27-4	
Bromoform	<2.0	ug/m3	7.3	2.0	1.39		02/09/20 13:10	75-25-2	
Bromomethane	<0.32	ug/m3	1.1	0.32	1.39		02/09/20 13:10	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.63	0.18	1.39		02/09/20 13:10	106-99-0	
2-Butanone (MEK)	<0.51	ug/m3	4.2	0.51	1.39		02/09/20 13:10	78-93-3	
Carbon disulfide	<0.30	ug/m3	0.88	0.30	1.39		02/09/20 13:10	75-15-0	
Carbon tetrachloride	0.62J	ug/m3	1.8	0.60	1.39		02/09/20 13:10	56-23-5	
Chlorobenzene	<0.38	ug/m3	1.3	0.38	1.39		02/09/20 13:10	108-90-7	
Chloroethane	<0.36	ug/m3	0.75	0.36	1.39		02/09/20 13:10	75-00-3	
Chloroform	<0.27	ug/m3	0.69	0.27	1.39		02/09/20 13:10	67-66-3	
Chloromethane	1.0	ug/m3	0.58	0.22	1.39		02/09/20 13:10	74-87-3	
Cyclohexane	<0.49	ug/m3	2.4	0.49	1.39		02/09/20 13:10	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.4	1.0	1.39		02/09/20 13:10	124-48-1	
1,2-Dibromoethane (EDB)	<0.51	ug/m3	1.1	0.51	1.39		02/09/20 13:10	106-93-4	
1,2-Dichlorobenzene	<0.69	ug/m3	1.7	0.69	1.39		02/09/20 13:10	95-50-1	
1,3-Dichlorobenzene	<0.81	ug/m3	1.7	0.81	1.39		02/09/20 13:10	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.3	1.4	1.39		02/09/20 13:10	106-46-7	
Dichlorodifluoromethane	3.4	ug/m3	1.4	0.41	1.39		02/09/20 13:10	75-71-8	
1,1-Dichloroethane	<0.31	ug/m3	1.1	0.31	1.39		02/09/20 13:10	75-34-3	
1,2-Dichloroethane	<0.21	ug/m3	0.57	0.21	1.39		02/09/20 13:10	107-06-2	
1,1-Dichloroethene	<0.38	ug/m3	1.1	0.38	1.39		02/09/20 13:10	75-35-4	
cis-1,2-Dichloroethene	<0.30	ug/m3	1.1	0.30	1.39		02/09/20 13:10	156-59-2	
trans-1,2-Dichloroethene	<0.40	ug/m3	1.1	0.40	1.39		02/09/20 13:10	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.3	0.32	1.39		02/09/20 13:10	78-87-5	
cis-1,3-Dichloropropene	<0.42	ug/m3	1.3	0.42	1.39		02/09/20 13:10	10061-01-5	
trans-1,3-Dichloropropene	<0.61	ug/m3	1.3	0.61	1.39		02/09/20 13:10	10061-02-6	
Dichlorotetrafluoroethane	<0.61	ug/m3	2.0	0.61	1.39		02/09/20 13:10	76-14-2	
Ethanol	9.1	ug/m3	2.7	1.1	1.39		02/09/20 13:10	64-17-5	
Ethyl acetate	<0.26	ug/m3	1.0	0.26	1.39		02/09/20 13:10	141-78-6	
Ethylbenzene	<0.42	ug/m3	1.2	0.42	1.39		02/09/20 13:10	100-41-4	
4-Ethyltoluene	<0.79	ug/m3	3.5	0.79	1.39		02/09/20 13:10	622-96-8	
n-Heptane	<0.53	ug/m3	1.2	0.53	1.39		02/09/20 13:10	142-82-5	
Hexachloro-1,3-butadiene	<2.7	ug/m3	7.5	2.7	1.39		02/09/20 13:10	87-68-3	
n-Hexane	0.56J	ug/m3	1.0	0.43	1.39		02/09/20 13:10	110-54-3	
2-Hexanone	<1.0	ug/m3	5.8	1.0	1.39		02/09/20 13:10	591-78-6	
Methylene Chloride	1.8J	ug/m3	4.9	1.7	1.39		02/09/20 13:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.72	ug/m3	5.8	0.72	1.39		02/09/20 13:10	108-10-1	
Methyl-tert-butyl ether	<0.92	ug/m3	5.1	0.92	1.39		02/09/20 13:10	1634-04-4	
Naphthalene	<1.8	ug/m3	3.7	1.8	1.39		02/09/20 13:10	91-20-3	
2-Propanol	2.4J	ug/m3	3.5	0.97	1.39		02/09/20 13:10	67-63-0	
Propylene	<0.19	ug/m3	0.49	0.19	1.39		02/09/20 13:10	115-07-1	
Styrene	<0.48	ug/m3	1.2	0.48	1.39		02/09/20 13:10	100-42-5	
1,1,2,2-Tetrachloroethane	<0.43	ug/m3	0.97	0.43	1.39		02/09/20 13:10	79-34-5	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Sample: OA-1 **Lab ID: 10507760001** Collected: 02/06/20 10:14 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	<0.44	ug/m3	0.96	0.44	1.39		02/09/20 13:10	127-18-4	
Tetrahydrofuran	<0.36	ug/m3	0.83	0.36	1.39		02/09/20 13:10	109-99-9	
Toluene	0.65J	ug/m3	1.1	0.49	1.39		02/09/20 13:10	108-88-3	
1,2,4-Trichlorobenzene	<5.2	ug/m3	10.5	5.2	1.39		02/09/20 13:10	120-82-1	
1,1,1-Trichloroethane	<0.43	ug/m3	1.5	0.43	1.39		02/09/20 13:10	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/m3	0.77	0.34	1.39		02/09/20 13:10	79-00-5	
Trichloroethene	<0.35	ug/m3	0.76	0.35	1.39		02/09/20 13:10	79-01-6	
Trichlorofluoromethane	1.7	ug/m3	1.6	0.51	1.39		02/09/20 13:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.78	ug/m3	2.2	0.78	1.39		02/09/20 13:10	76-13-1	
1,2,4-Trimethylbenzene	<0.63	ug/m3	1.4	0.63	1.39		02/09/20 13:10	95-63-6	
1,3,5-Trimethylbenzene	<0.55	ug/m3	1.4	0.55	1.39		02/09/20 13:10	108-67-8	
Vinyl acetate	<0.38	ug/m3	1.0	0.38	1.39		02/09/20 13:10	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.36	0.18	1.39		02/09/20 13:10	75-01-4	
m&p-Xylene	<0.97	ug/m3	2.5	0.97	1.39		02/09/20 13:10	179601-23-1	
o-Xylene	<0.48	ug/m3	1.2	0.48	1.39		02/09/20 13:10	95-47-6	

Sample: IA-1 **Lab ID: 10507760002** Collected: 02/06/20 10:18 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	18.3	ug/m3	3.7	1.9	1.55		02/09/20 14:08	67-64-1	
Benzene	0.56	ug/m3	0.50	0.24	1.55		02/09/20 14:08	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.1	1.9	1.55		02/09/20 14:08	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.1	0.57	1.55		02/09/20 14:08	75-27-4	
Bromoform	<2.2	ug/m3	8.1	2.2	1.55		02/09/20 14:08	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.55		02/09/20 14:08	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.70	0.20	1.55		02/09/20 14:08	106-99-0	
2-Butanone (MEK)	1.1J	ug/m3	4.6	0.57	1.55		02/09/20 14:08	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.98	0.34	1.55		02/09/20 14:08	75-15-0	
Carbon tetrachloride	<0.66	ug/m3	2.0	0.66	1.55		02/09/20 14:08	56-23-5	
Chlorobenzene	<0.43	ug/m3	1.5	0.43	1.55		02/09/20 14:08	108-90-7	
Chloroethane	<0.40	ug/m3	0.83	0.40	1.55		02/09/20 14:08	75-00-3	
Chloroform	<0.30	ug/m3	0.77	0.30	1.55		02/09/20 14:08	67-66-3	
Chloromethane	0.84	ug/m3	0.65	0.24	1.55		02/09/20 14:08	74-87-3	
Cyclohexane	<0.55	ug/m3	2.7	0.55	1.55		02/09/20 14:08	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.7	1.1	1.55		02/09/20 14:08	124-48-1	
1,2-Dibromoethane (EDB)	<0.57	ug/m3	1.2	0.57	1.55		02/09/20 14:08	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	1.9	0.77	1.55		02/09/20 14:08	95-50-1	
1,3-Dichlorobenzene	<0.90	ug/m3	1.9	0.90	1.55		02/09/20 14:08	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.7	1.6	1.55		02/09/20 14:08	106-46-7	
Dichlorodifluoromethane	2.8	ug/m3	1.6	0.45	1.55		02/09/20 14:08	75-71-8	
1,1-Dichloroethane	<0.35	ug/m3	1.3	0.35	1.55		02/09/20 14:08	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.64	0.23	1.55		02/09/20 14:08	107-06-2	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Sample: IA-1 **Lab ID:** 10507760002 Collected: 02/06/20 10:18 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.55		02/09/20 14:08	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.55		02/09/20 14:08	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		02/09/20 14:08	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.5	0.36	1.55		02/09/20 14:08	78-87-5	
cis-1,3-Dichloropropene	<0.47	ug/m3	1.4	0.47	1.55		02/09/20 14:08	10061-01-5	
trans-1,3-Dichloropropene	<0.68	ug/m3	1.4	0.68	1.55		02/09/20 14:08	10061-02-6	
Dichlorotetrafluoroethane	<0.68	ug/m3	2.2	0.68	1.55		02/09/20 14:08	76-14-2	
Ethanol	112	ug/m3	3.0	1.3	1.55		02/09/20 14:08	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.1	0.29	1.55		02/09/20 14:08	141-78-6	
Ethylbenzene	0.52J	ug/m3	1.4	0.47	1.55		02/09/20 14:08	100-41-4	
4-Ethyltoluene	<0.88	ug/m3	3.9	0.88	1.55		02/09/20 14:08	622-96-8	
n-Heptane	0.71J	ug/m3	1.3	0.59	1.55		02/09/20 14:08	142-82-5	
Hexachloro-1,3-butadiene	<3.1	ug/m3	8.4	3.1	1.55		02/09/20 14:08	87-68-3	
n-Hexane	<0.48	ug/m3	1.1	0.48	1.55		02/09/20 14:08	110-54-3	
2-Hexanone	<1.2	ug/m3	6.4	1.2	1.55		02/09/20 14:08	591-78-6	
Methylene Chloride	1.9J	ug/m3	5.5	1.9	1.55		02/09/20 14:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/m3	6.4	0.80	1.55		02/09/20 14:08	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.7	1.0	1.55		02/09/20 14:08	1634-04-4	
Naphthalene	<2.0	ug/m3	4.1	2.0	1.55		02/09/20 14:08	91-20-3	
2-Propanol	10.2	ug/m3	3.9	1.1	1.55		02/09/20 14:08	67-63-0	
Propylene	<0.22	ug/m3	0.54	0.22	1.55		02/09/20 14:08	115-07-1	
Styrene	<0.53	ug/m3	1.3	0.53	1.55		02/09/20 14:08	100-42-5	
1,1,2,2-Tetrachloroethane	<0.48	ug/m3	1.1	0.48	1.55		02/09/20 14:08	79-34-5	
Tetrachloroethene	2.5	ug/m3	1.1	0.49	1.55		02/09/20 14:08	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.93	0.40	1.55		02/09/20 14:08	109-99-9	
Toluene	3.8	ug/m3	1.2	0.54	1.55		02/09/20 14:08	108-88-3	
1,2,4-Trichlorobenzene	<5.8	ug/m3	11.7	5.8	1.55		02/09/20 14:08	120-82-1	
1,1,1-Trichloroethane	<0.48	ug/m3	1.7	0.48	1.55		02/09/20 14:08	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.86	0.38	1.55		02/09/20 14:08	79-00-5	
Trichloroethene	<0.39	ug/m3	0.85	0.39	1.55		02/09/20 14:08	79-01-6	
Trichlorofluoromethane	7.1	ug/m3	1.8	0.57	1.55		02/09/20 14:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.87	ug/m3	2.4	0.87	1.55		02/09/20 14:08	76-13-1	
1,2,4-Trimethylbenzene	<0.70	ug/m3	1.5	0.70	1.55		02/09/20 14:08	95-63-6	
1,3,5-Trimethylbenzene	<0.62	ug/m3	1.5	0.62	1.55		02/09/20 14:08	108-67-8	
Vinyl acetate	<0.42	ug/m3	1.1	0.42	1.55		02/09/20 14:08	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		02/09/20 14:08	75-01-4	
m&p-Xylene	2.1J	ug/m3	2.7	1.1	1.55		02/09/20 14:08	179601-23-1	
o-Xylene	0.72J	ug/m3	1.4	0.53	1.55		02/09/20 14:08	95-47-6	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Sample: SS-3 **Lab ID: 10507760003** Collected: 02/06/20 10:57 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	7.5	ug/m3	3.7	1.9	1.55		02/09/20 14:36	67-64-1	
Benzene	0.52	ug/m3	0.50	0.24	1.55		02/09/20 14:36	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.1	1.9	1.55		02/09/20 14:36	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.1	0.57	1.55		02/09/20 14:36	75-27-4	
Bromoform	<2.2	ug/m3	8.1	2.2	1.55		02/09/20 14:36	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.55		02/09/20 14:36	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.70	0.20	1.55		02/09/20 14:36	106-99-0	
2-Butanone (MEK)	4.4J	ug/m3	4.6	0.57	1.55		02/09/20 14:36	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.98	0.34	1.55		02/09/20 14:36	75-15-0	
Carbon tetrachloride	<0.66	ug/m3	2.0	0.66	1.55		02/09/20 14:36	56-23-5	
Chlorobenzene	<0.43	ug/m3	1.5	0.43	1.55		02/09/20 14:36	108-90-7	
Chloroethane	<0.40	ug/m3	0.83	0.40	1.55		02/09/20 14:36	75-00-3	
Chloroform	<0.30	ug/m3	0.77	0.30	1.55		02/09/20 14:36	67-66-3	
Chloromethane	0.28J	ug/m3	0.65	0.24	1.55		02/09/20 14:36	74-87-3	
Cyclohexane	<0.55	ug/m3	2.7	0.55	1.55		02/09/20 14:36	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.7	1.1	1.55		02/09/20 14:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.57	ug/m3	1.2	0.57	1.55		02/09/20 14:36	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	1.9	0.77	1.55		02/09/20 14:36	95-50-1	
1,3-Dichlorobenzene	<0.90	ug/m3	1.9	0.90	1.55		02/09/20 14:36	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.7	1.6	1.55		02/09/20 14:36	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.6	0.45	1.55		02/09/20 14:36	75-71-8	
1,1-Dichloroethane	<0.35	ug/m3	1.3	0.35	1.55		02/09/20 14:36	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.64	0.23	1.55		02/09/20 14:36	107-06-2	
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.55		02/09/20 14:36	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.55		02/09/20 14:36	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		02/09/20 14:36	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.5	0.36	1.55		02/09/20 14:36	78-87-5	
cis-1,3-Dichloropropene	<0.47	ug/m3	1.4	0.47	1.55		02/09/20 14:36	10061-01-5	
trans-1,3-Dichloropropene	<0.68	ug/m3	1.4	0.68	1.55		02/09/20 14:36	10061-02-6	
Dichlorotetrafluoroethane	<0.68	ug/m3	2.2	0.68	1.55		02/09/20 14:36	76-14-2	
Ethanol	31.6	ug/m3	3.0	1.3	1.55		02/09/20 14:36	64-17-5	
Ethyl acetate	3.0	ug/m3	1.1	0.29	1.55		02/09/20 14:36	141-78-6	
Ethylbenzene	1.5	ug/m3	1.4	0.47	1.55		02/09/20 14:36	100-41-4	
4-Ethyltoluene	<0.88	ug/m3	3.9	0.88	1.55		02/09/20 14:36	622-96-8	
n-Heptane	0.80J	ug/m3	1.3	0.59	1.55		02/09/20 14:36	142-82-5	
Hexachloro-1,3-butadiene	<3.1	ug/m3	8.4	3.1	1.55		02/09/20 14:36	87-68-3	
n-Hexane	<0.48	ug/m3	1.1	0.48	1.55		02/09/20 14:36	110-54-3	
2-Hexanone	<1.2	ug/m3	6.4	1.2	1.55		02/09/20 14:36	591-78-6	
Methylene Chloride	<1.9	ug/m3	5.5	1.9	1.55		02/09/20 14:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/m3	6.4	0.80	1.55		02/09/20 14:36	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.7	1.0	1.55		02/09/20 14:36	1634-04-4	
Naphthalene	<2.0	ug/m3	4.1	2.0	1.55		02/09/20 14:36	91-20-3	
2-Propanol	2.4J	ug/m3	3.9	1.1	1.55		02/09/20 14:36	67-63-0	
Propylene	<0.22	ug/m3	0.54	0.22	1.55		02/09/20 14:36	115-07-1	
Styrene	<0.53	ug/m3	1.3	0.53	1.55		02/09/20 14:36	100-42-5	
1,1,2,2-Tetrachloroethane	<0.48	ug/m3	1.1	0.48	1.55		02/09/20 14:36	79-34-5	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Sample: SS-3 **Lab ID: 10507760003** Collected: 02/06/20 10:57 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	335	ug/m3	1.1	0.49	1.55		02/09/20 14:36	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.93	0.40	1.55		02/09/20 14:36	109-99-9	
Toluene	3.7	ug/m3	1.2	0.54	1.55		02/09/20 14:36	108-88-3	
1,2,4-Trichlorobenzene	<5.8	ug/m3	11.7	5.8	1.55		02/09/20 14:36	120-82-1	
1,1,1-Trichloroethane	<0.48	ug/m3	1.7	0.48	1.55		02/09/20 14:36	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.86	0.38	1.55		02/09/20 14:36	79-00-5	
Trichloroethene	<0.39	ug/m3	0.85	0.39	1.55		02/09/20 14:36	79-01-6	
Trichlorofluoromethane	2.8	ug/m3	1.8	0.57	1.55		02/09/20 14:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.87	ug/m3	2.4	0.87	1.55		02/09/20 14:36	76-13-1	
1,2,4-Trimethylbenzene	2.0	ug/m3	1.5	0.70	1.55		02/09/20 14:36	95-63-6	
1,3,5-Trimethylbenzene	1.2J	ug/m3	1.5	0.62	1.55		02/09/20 14:36	108-67-8	
Vinyl acetate	<0.42	ug/m3	1.1	0.42	1.55		02/09/20 14:36	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		02/09/20 14:36	75-01-4	
m&p-Xylene	5.9	ug/m3	2.7	1.1	1.55		02/09/20 14:36	179601-23-1	
o-Xylene	2.0	ug/m3	1.4	0.53	1.55		02/09/20 14:36	95-47-6	

Sample: SS-2 **Lab ID: 10507760004** Collected: 02/06/20 10:57 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	8.6	ug/m3	3.7	1.8	1.52		02/09/20 15:05	67-64-1	
Benzene	0.46J	ug/m3	0.49	0.23	1.52		02/09/20 15:05	71-43-2	
Benzyl chloride	<1.8	ug/m3	4.0	1.8	1.52		02/09/20 15:05	100-44-7	
Bromodichloromethane	<0.56	ug/m3	2.1	0.56	1.52		02/09/20 15:05	75-27-4	
Bromoform	<2.2	ug/m3	8.0	2.2	1.52		02/09/20 15:05	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.52		02/09/20 15:05	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.68	0.19	1.52		02/09/20 15:05	106-99-0	
2-Butanone (MEK)	5.2	ug/m3	4.6	0.56	1.52		02/09/20 15:05	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.96	0.33	1.52		02/09/20 15:05	75-15-0	
Carbon tetrachloride	<0.65	ug/m3	1.9	0.65	1.52		02/09/20 15:05	56-23-5	
Chlorobenzene	<0.42	ug/m3	1.4	0.42	1.52		02/09/20 15:05	108-90-7	
Chloroethane	<0.40	ug/m3	0.81	0.40	1.52		02/09/20 15:05	75-00-3	
Chloroform	<0.30	ug/m3	0.75	0.30	1.52		02/09/20 15:05	67-66-3	
Chloromethane	<0.24	ug/m3	0.64	0.24	1.52		02/09/20 15:05	74-87-3	
Cyclohexane	<0.54	ug/m3	2.7	0.54	1.52		02/09/20 15:05	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.52		02/09/20 15:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/m3	1.2	0.56	1.52		02/09/20 15:05	106-93-4	
1,2-Dichlorobenzene	<0.76	ug/m3	1.9	0.76	1.52		02/09/20 15:05	95-50-1	
1,3-Dichlorobenzene	<0.88	ug/m3	1.9	0.88	1.52		02/09/20 15:05	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.7	1.5	1.52		02/09/20 15:05	106-46-7	
Dichlorodifluoromethane	2.8	ug/m3	1.5	0.45	1.52		02/09/20 15:05	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.3	0.34	1.52		02/09/20 15:05	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.62	0.23	1.52		02/09/20 15:05	107-06-2	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507760

Sample: SS-2 **Lab ID: 10507760004** Collected: 02/06/20 10:57 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.52		02/09/20 15:05	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.52		02/09/20 15:05	156-59-2	
trans-1,2-Dichloroethene	<0.43	ug/m3	1.2	0.43	1.52		02/09/20 15:05	156-60-5	
1,2-Dichloropropane	<0.35	ug/m3	1.4	0.35	1.52		02/09/20 15:05	78-87-5	
cis-1,3-Dichloropropene	<0.46	ug/m3	1.4	0.46	1.52		02/09/20 15:05	10061-01-5	
trans-1,3-Dichloropropene	<0.67	ug/m3	1.4	0.67	1.52		02/09/20 15:05	10061-02-6	
Dichlorotetrafluoroethane	<0.66	ug/m3	2.2	0.66	1.52		02/09/20 15:05	76-14-2	
Ethanol	45.1	ug/m3	2.9	1.2	1.52		02/09/20 15:05	64-17-5	
Ethyl acetate	2.1	ug/m3	1.1	0.29	1.52		02/09/20 15:05	141-78-6	
Ethylbenzene	1.1J	ug/m3	1.3	0.46	1.52		02/09/20 15:05	100-41-4	
4-Ethyltoluene	<0.87	ug/m3	3.8	0.87	1.52		02/09/20 15:05	622-96-8	
n-Heptane	<0.58	ug/m3	1.3	0.58	1.52		02/09/20 15:05	142-82-5	
Hexachloro-1,3-butadiene	<3.0	ug/m3	8.2	3.0	1.52		02/09/20 15:05	87-68-3	
n-Hexane	<0.47	ug/m3	1.1	0.47	1.52		02/09/20 15:05	110-54-3	
2-Hexanone	<1.1	ug/m3	6.3	1.1	1.52		02/09/20 15:05	591-78-6	
Methylene Chloride	2.5J	ug/m3	5.4	1.8	1.52		02/09/20 15:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.79	ug/m3	6.3	0.79	1.52		02/09/20 15:05	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.6	1.0	1.52		02/09/20 15:05	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.52		02/09/20 15:05	91-20-3	
2-Propanol	4.9	ug/m3	3.8	1.1	1.52		02/09/20 15:05	67-63-0	
Propylene	<0.21	ug/m3	0.53	0.21	1.52		02/09/20 15:05	115-07-1	
Styrene	<0.52	ug/m3	1.3	0.52	1.52		02/09/20 15:05	100-42-5	
1,1,2,2-Tetrachloroethane	<0.47	ug/m3	1.1	0.47	1.52		02/09/20 15:05	79-34-5	
Tetrachloroethene	35.9	ug/m3	1.0	0.48	1.52		02/09/20 15:05	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.91	0.40	1.52		02/09/20 15:05	109-99-9	
Toluene	3.1	ug/m3	1.2	0.53	1.52		02/09/20 15:05	108-88-3	
1,2,4-Trichlorobenzene	<5.7	ug/m3	11.5	5.7	1.52		02/09/20 15:05	120-82-1	
1,1,1-Trichloroethane	<0.47	ug/m3	1.7	0.47	1.52		02/09/20 15:05	71-55-6	
1,1,2-Trichloroethane	<0.37	ug/m3	0.84	0.37	1.52		02/09/20 15:05	79-00-5	
Trichloroethene	<0.38	ug/m3	0.83	0.38	1.52		02/09/20 15:05	79-01-6	
Trichlorofluoromethane	1.6J	ug/m3	1.7	0.56	1.52		02/09/20 15:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.86	ug/m3	2.4	0.86	1.52		02/09/20 15:05	76-13-1	
1,2,4-Trimethylbenzene	1.1J	ug/m3	1.5	0.69	1.52		02/09/20 15:05	95-63-6	
1,3,5-Trimethylbenzene	<0.61	ug/m3	1.5	0.61	1.52		02/09/20 15:05	108-67-8	
Vinyl acetate	<0.41	ug/m3	1.1	0.41	1.52		02/09/20 15:05	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.40	0.19	1.52		02/09/20 15:05	75-01-4	
m&p-Xylene	4.5	ug/m3	2.7	1.1	1.52		02/09/20 15:05	179601-23-1	
o-Xylene	1.4	ug/m3	1.3	0.52	1.52		02/09/20 15:05	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10507760

QC Batch: 659083 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10507760001, 10507760002, 10507760003, 10507760004

METHOD BLANK: 3537594 Matrix: Air
Associated Lab Samples: 10507760001, 10507760002, 10507760003, 10507760004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	0.56	02/09/20 11:16	
1,1,2,2-Tetrachloroethane	ug/m3	<0.15	0.35	02/09/20 11:16	
1,1,2-Trichloroethane	ug/m3	<0.12	0.28	02/09/20 11:16	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.28	0.78	02/09/20 11:16	
1,1-Dichloroethane	ug/m3	<0.11	0.41	02/09/20 11:16	
1,1-Dichloroethene	ug/m3	<0.14	0.40	02/09/20 11:16	
1,2,4-Trichlorobenzene	ug/m3	<1.9	3.8	02/09/20 11:16	
1,2,4-Trimethylbenzene	ug/m3	<0.23	0.50	02/09/20 11:16	
1,2-Dibromoethane (EDB)	ug/m3	<0.18	0.39	02/09/20 11:16	
1,2-Dichlorobenzene	ug/m3	<0.25	0.61	02/09/20 11:16	
1,2-Dichloroethane	ug/m3	<0.075	0.21	02/09/20 11:16	
1,2-Dichloropropane	ug/m3	<0.12	0.47	02/09/20 11:16	
1,3,5-Trimethylbenzene	ug/m3	<0.20	0.50	02/09/20 11:16	
1,3-Butadiene	ug/m3	<0.064	0.22	02/09/20 11:16	
1,3-Dichlorobenzene	ug/m3	<0.29	0.61	02/09/20 11:16	
1,4-Dichlorobenzene	ug/m3	<0.50	1.5	02/09/20 11:16	
2-Butanone (MEK)	ug/m3	<0.18	1.5	02/09/20 11:16	
2-Hexanone	ug/m3	<0.37	2.1	02/09/20 11:16	
2-Propanol	ug/m3	<0.35	1.2	02/09/20 11:16	
4-Ethyltoluene	ug/m3	<0.28	1.2	02/09/20 11:16	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.26	2.1	02/09/20 11:16	
Acetone	ug/m3	<0.60	1.2	02/09/20 11:16	
Benzene	ug/m3	<0.076	0.16	02/09/20 11:16	
Benzyl chloride	ug/m3	<0.60	1.3	02/09/20 11:16	
Bromodichloromethane	ug/m3	<0.18	0.68	02/09/20 11:16	
Bromoform	ug/m3	<0.71	2.6	02/09/20 11:16	
Bromomethane	ug/m3	<0.11	0.39	02/09/20 11:16	
Carbon disulfide	ug/m3	<0.11	0.32	02/09/20 11:16	
Carbon tetrachloride	ug/m3	<0.21	0.64	02/09/20 11:16	
Chlorobenzene	ug/m3	<0.14	0.47	02/09/20 11:16	
Chloroethane	ug/m3	<0.13	0.27	02/09/20 11:16	
Chloroform	ug/m3	<0.098	0.25	02/09/20 11:16	
Chloromethane	ug/m3	<0.078	0.21	02/09/20 11:16	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	02/09/20 11:16	
cis-1,3-Dichloropropene	ug/m3	<0.15	0.46	02/09/20 11:16	
Cyclohexane	ug/m3	<0.18	0.88	02/09/20 11:16	
Dibromochloromethane	ug/m3	<0.36	0.86	02/09/20 11:16	
Dichlorodifluoromethane	ug/m3	<0.15	0.50	02/09/20 11:16	
Dichlorotetrafluoroethane	ug/m3	<0.22	0.71	02/09/20 11:16	
Ethanol	ug/m3	<0.41	0.96	02/09/20 11:16	
Ethyl acetate	ug/m3	<0.095	0.37	02/09/20 11:16	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10507760

METHOD BLANK: 3537594 Matrix: Air
Associated Lab Samples: 10507760001, 10507760002, 10507760003, 10507760004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.15	0.44	02/09/20 11:16	
Hexachloro-1,3-butadiene	ug/m3	<0.98	2.7	02/09/20 11:16	
m&p-Xylene	ug/m3	<0.35	0.88	02/09/20 11:16	
Methyl-tert-butyl ether	ug/m3	<0.33	1.8	02/09/20 11:16	
Methylene Chloride	ug/m3	<0.60	1.8	02/09/20 11:16	
n-Heptane	ug/m3	<0.19	0.42	02/09/20 11:16	
n-Hexane	ug/m3	<0.16	0.36	02/09/20 11:16	
Naphthalene	ug/m3	<0.66	1.3	02/09/20 11:16	
o-Xylene	ug/m3	<0.17	0.44	02/09/20 11:16	
Propylene	ug/m3	<0.070	0.18	02/09/20 11:16	
Styrene	ug/m3	<0.17	0.43	02/09/20 11:16	
Tetrachloroethene	ug/m3	<0.16	0.34	02/09/20 11:16	
Tetrahydrofuran	ug/m3	<0.13	0.30	02/09/20 11:16	
Toluene	ug/m3	<0.18	0.38	02/09/20 11:16	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	02/09/20 11:16	
trans-1,3-Dichloropropene	ug/m3	<0.22	0.46	02/09/20 11:16	
Trichloroethene	ug/m3	<0.13	0.27	02/09/20 11:16	
Trichlorofluoromethane	ug/m3	<0.18	0.57	02/09/20 11:16	
Vinyl acetate	ug/m3	<0.14	0.36	02/09/20 11:16	
Vinyl chloride	ug/m3	<0.063	0.13	02/09/20 11:16	

LABORATORY CONTROL SAMPLE: 3537595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	61.5	108	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	73.1	102	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	62.5	109	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	86.1	107	70-130	
1,1-Dichloroethane	ug/m3	42.7	46.4	109	70-130	
1,1-Dichloroethene	ug/m3	41.4	45.9	111	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	135	87	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	56.8	110	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	88.1	110	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	70.8	112	70-136	
1,2-Dichloroethane	ug/m3	42.4	45.9	108	70-130	
1,2-Dichloropropane	ug/m3	48.6	51.0	105	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	63.9	124	70-136	
1,3-Butadiene	ug/m3	23.3	24.3	104	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	73.1	115	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	74.6	118	70-145	
2-Butanone (MEK)	ug/m3	31.4	31.5	100	61-130	
2-Hexanone	ug/m3	42.8	46.6	109	70-138	
2-Propanol	ug/m3	119	134	113	70-136	
4-Ethyltoluene	ug/m3	52.4	65.4	125	70-142	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507760

LABORATORY CONTROL SAMPLE: 3537595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	51.0	117	70-134	
Acetone	ug/m3	126	121	96	59-137	
Benzene	ug/m3	33.5	33.2	99	70-133	
Benzyl chloride	ug/m3	55.1	62.4	113	70-139	
Bromodichloromethane	ug/m3	71.5	81.6	114	70-130	
Bromoform	ug/m3	110	125	114	60-140	
Bromomethane	ug/m3	41.3	41.6	101	70-131	
Carbon disulfide	ug/m3	33.3	34.0	102	70-130	
Carbon tetrachloride	ug/m3	66.2	79.1	119	70-133	
Chlorobenzene	ug/m3	48.3	52.0	108	70-131	
Chloroethane	ug/m3	28.1	29.4	105	70-141	
Chloroform	ug/m3	51.1	52.9	104	70-130	
Chloromethane	ug/m3	21.9	22.5	103	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	44.7	107	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	55.3	116	70-138	
Cyclohexane	ug/m3	36.7	39.9	109	70-133	
Dibromochloromethane	ug/m3	90.7	101	111	70-139	
Dichlorodifluoromethane	ug/m3	51.6	55.8	108	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	78.5	108	65-133	
Ethanol	ug/m3	103	99.8	97	65-135	
Ethyl acetate	ug/m3	38.6	40.9	106	70-135	
Ethylbenzene	ug/m3	45.6	50.2	110	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	129	116	70-134	
m&p-Xylene	ug/m3	91.2	106	116	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	40.7	106	70-131	
Methylene Chloride	ug/m3	182	181	100	69-130	
n-Heptane	ug/m3	43.6	44.6	102	70-130	
n-Hexane	ug/m3	37.6	38.2	102	70-131	
Naphthalene	ug/m3	57.7	40.8	71	63-130	
o-Xylene	ug/m3	45.5	52.9	116	70-135	
Propylene	ug/m3	18.2	16.6	91	63-139	
Styrene	ug/m3	44.9	49.2	110	70-143	
Tetrachloroethene	ug/m3	71	77.3	109	70-136	
Tetrahydrofuran	ug/m3	31.5	33.7	107	70-137	
Toluene	ug/m3	39.5	43.1	109	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	42.8	101	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	55.0	115	70-139	
Trichloroethene	ug/m3	56.3	62.5	111	70-132	
Trichlorofluoromethane	ug/m3	59.7	67.9	114	65-136	
Vinyl acetate	ug/m3	34.5	37.6	109	66-140	
Vinyl chloride	ug/m3	26.7	26.4	99	68-141	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507760

SAMPLE DUPLICATE: 3537741

Parameter	Units	10507760001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichloroethane	ug/m3	<0.34	<0.34		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.78	<0.78		25	
1,1-Dichloroethane	ug/m3	<0.31	<0.31		25	
1,1-Dichloroethene	ug/m3	<0.38	<0.38		25	
1,2,4-Trichlorobenzene	ug/m3	<5.2	<5.2		25	
1,2,4-Trimethylbenzene	ug/m3	<0.63	<0.63		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.51	<0.51		25	
1,2-Dichlorobenzene	ug/m3	<0.69	<0.69		25	
1,2-Dichloroethane	ug/m3	<0.21	<0.21		25	
1,2-Dichloropropane	ug/m3	<0.32	<0.32		25	
1,3,5-Trimethylbenzene	ug/m3	<0.55	<0.55		25	
1,3-Butadiene	ug/m3	<0.18	<0.18		25	
1,3-Dichlorobenzene	ug/m3	<0.81	<0.81		25	
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4		25	
2-Butanone (MEK)	ug/m3	<0.51	<0.51		25	
2-Hexanone	ug/m3	<1.0	<1.0		25	
2-Propanol	ug/m3	2.4J	2.2J		25	
4-Ethyltoluene	ug/m3	<0.79	<0.79		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.72	<0.72		25	
Acetone	ug/m3	5.0	4.3	15	25	
Benzene	ug/m3	0.72	0.70	2	25	
Benzyl chloride	ug/m3	<1.7	<1.7		25	
Bromodichloromethane	ug/m3	<0.51	<0.51		25	
Bromoform	ug/m3	<2.0	<2.0		25	
Bromomethane	ug/m3	<0.32	<0.32		25	
Carbon disulfide	ug/m3	<0.30	<0.30		25	
Carbon tetrachloride	ug/m3	0.62J	<0.60		25	
Chlorobenzene	ug/m3	<0.38	<0.38		25	
Chloroethane	ug/m3	<0.36	<0.36		25	
Chloroform	ug/m3	<0.27	<0.27		25	
Chloromethane	ug/m3	1.0	0.77	27	25	R1
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		25	
cis-1,3-Dichloropropene	ug/m3	<0.42	<0.42		25	
Cyclohexane	ug/m3	<0.49	<0.49		25	
Dibromochloromethane	ug/m3	<1.0	<1.0		25	
Dichlorodifluoromethane	ug/m3	3.4	3.2	3	25	
Dichlorotetrafluoroethane	ug/m3	<0.61	<0.61		25	
Ethanol	ug/m3	9.1	8.0	13	25	
Ethyl acetate	ug/m3	<0.26	<0.26		25	
Ethylbenzene	ug/m3	<0.42	<0.42		25	
Hexachloro-1,3-butadiene	ug/m3	<2.7	<2.7		25	
m&p-Xylene	ug/m3	<0.97	<0.97		25	
Methyl-tert-butyl ether	ug/m3	<0.92	<0.92		25	
Methylene Chloride	ug/m3	1.8J	<1.7		25	
n-Heptane	ug/m3	<0.53	<0.53		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507760

SAMPLE DUPLICATE: 3537741

Parameter	Units	10507760001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.56J	0.47J		25	
Naphthalene	ug/m3	<1.8	<1.8		25	
o-Xylene	ug/m3	<0.48	<0.48		25	
Propylene	ug/m3	<0.19	<0.19		25	
Styrene	ug/m3	<0.48	<0.48		25	
Tetrachloroethene	ug/m3	<0.44	<0.44		25	
Tetrahydrofuran	ug/m3	<0.36	<0.36		25	
Toluene	ug/m3	0.65J	0.57J		25	
trans-1,2-Dichloroethene	ug/m3	<0.40	<0.40		25	
trans-1,3-Dichloropropene	ug/m3	<0.61	<0.61		25	
Trichloroethene	ug/m3	<0.35	<0.35		25	
Trichlorofluoromethane	ug/m3	1.7	1.8	3	25	
Vinyl acetate	ug/m3	<0.38	<0.38		25	
Vinyl chloride	ug/m3	<0.18	<0.18		25	

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QUALIFIERS

Project: 60602996 Grafton VI

Pace Project No.: 10507760

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60602996 Grafton VI
Pace Project No.: 10507760

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10507760001	OA-1	TO-15	659083		
10507760002	IA-1	TO-15	659083		
10507760003	SS-3	TO-15	659083		
10507760004	SS-2	TO-15	659083		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-C

The Chain-of-Custody is a LEGAL DOC

WO#: 10507760



48405

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: AELOM		Report To: AELOM		Attention: USAP IMAGING @ AELOM.com	
Address: 1555 River Center Dr Milwaukee WI 53212		Copy To: Lanette Altenbach		Company Name: Send	
Email To: torq.schultz@aelom.com		lanette.altenbach@aelom.com		Address: Same	
Phone: 414.941.6168 Fax:		Purchase Order No.:		Pace Quote Reference:	
Requested Due Date/TAT: STD		Project Name: Grafton VI		Pace Project Manager/Sales Rep. Carolyn Trout	
		Project Number: 60602996		Pace Profile #: 40280	

Program	
<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other	
Location of Sampling by State WI	Reporting Units ug/m ³ mg/m ³ PPBV PPMV Other
Report Level II ___ III ___ IV ___ Other ___	

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes		COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID	
		MEDIA	CODE	COMPOSITE START		COMPOSITE - END/GRAB						PM10	3C - Fixed Gas (%)	TO-15 BTEX	TO-15M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated		TO-15 Short List Toluene
		Tedlar Bag	TB	DATE	TIME	DATE	TIME														
		1 Liter Summa Can	1LC																		
1	OA-1	6LL 0.0	02.05.20	1015	02.06.20	1014	30	3	3652	2174									001		
2	IA-1	6LL 0.1	02.05.20	1025	02.06.20	1018	30	5	3636	1949									02		
3	SS-3	6LL 0.1	02.06.20	1020	02.06.20	1057	28	5	3018	1170									03		
4	SS-2	6LL 0.1	02.06.20	1020	02.06.20	1057	30	5	2352	2444									004		
5	[Handwritten line across row 5]																				
6	[Handwritten line across row 6]																				
7	[Handwritten line across row 7]																				
8	[Handwritten line across row 8]																				
9	[Handwritten line across row 9]																				
10	[Handwritten line across row 10]																				
11	[Handwritten line across row 11]																				
12	[Handwritten line across row 12]																				

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	/// AELOM	02.06.20	1700	[Signature]	2/7/20	145	-	Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:	Keith Nielson				
SIGNATURE of SAMPLER:	[Signature]	DATE Signed (MM/DD/YY) 02.06.20			

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt

Document No.:
F-MN-A-106-rev.20

Document Revised: 19Nov2019
Page 1 of 1

Pace Analytical Services -
Minneapolis

**Air Sample Condition
Upon Receipt**

Client Name:
AECOM

Project #:
WO#: 10507760

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial See Exception

PM: CT1 Due Date: 02/14/20
CLIENT: AECOM-WI

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermometer Used: G87A9170600254 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 2/7/20 CMY

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>(Air Can)</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>(N)</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
0A-1	3653	2174	-1	5					
1A-1	3636	1949	-4	5					
SS-3	3018	1170	-4	5					
SS-2	2352	2444	-2.5	5					

CLIENT NOTIFICATION/RESOLUTION


Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trout Date: 2/7/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (out of hold, incorrect preservative, out of temp, incorrect containers)

	Document Name: SCUR Exception Form – Coolers Above 6°C	Document Revised: 08Apr2019 Page 1 of 1
	Document No.: F-MN-C-298-Rev.02	Issuing Authority: Pace Minnesota Quality Office

During sample triage, this form is to be placed in each cooler that arrives above 6.0 degrees Celsius

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No															
			If yes, indicate who was contacted/date/time. If no, indicate reason why.															
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.															
			<div style="border: 1px solid black; padding: 5px;"> <p align="center">No Temp Blank</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Read Temp</th> <th style="width: 33%;">Corrected Temp</th> <th style="width: 33%;">Average Temp</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> </div>	Read Temp	Corrected Temp	Average Temp												
Read Temp	Corrected Temp	Average Temp																

Tracking Number/Temperature		
1083	0282	9201
1083	0282	9234
1083	0282	9223
1083	0282	9212

Other Issues		
Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	