Feeney, John M - DNR

From: Schultz, Tory <Tory.Schultz@aecom.com>
Sent: Wednesday, May 13, 2020 1:02 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 and FINAL Sample Event Results
Attachments: Lab.Report_APR2020_gw.pdf; Lab.Report_APR2020_1225_1227_12thAve.pdf; Lab.Report_APR2020_1102BridgeSt.pdf

Good afternoon John,

Here are the results of AECOM's VI testing in Grafton during April 2020. Sorry for the delay. During QC review we identified errors and requested revised laboratory reports which have been attached.

On April 22nd-23rd, 2020, AECOM conducted work associated with the Former Quality Cleaners Off-site Vapor Intrusion Assessment. Two sub-slab vapor pins at off-site locations were sampled (SS-4 and SS-5). One indoor air and one outdoor ambient air sample were collected from 1225-1227 12th Avenue. Air 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 cooling season are summarized below and the laboratory report is attached. 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.

On April 22nd, AECOM collected groundwater samples from the two monitoring wells (MW1 & MW2) at the Former Quality Cleaners property.

Air Sample Methodology

Vapor pins were installed during the initial site visit on July 23rd, 2019. Indoor and outdoor ambient air samples were initiated on April 22nd, 2020. On April 23rd, 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)	April 2020 (Cooling)
1102 Bridge Street	SS-1	3.9	1.7	1.0 J	Not Sampled
	SS-5	Vapor Pin installed at later date	2.8	3.9	1.1 J
1233 12th Avenue	SS-2	1,390	85.4	35.9	Not Sampled
	SS-3	169	491	335	Not Sampled
	OA-1 (AA-1)	ND	ND	ND	Not Sampled
	IA-1 (AI-1)	1.1	2.5	2.5	Not Sampled
1225-1227 12th Avenue	SS-4	2.8	Access Denied During this event	0.79 J	0.76 J
	OA-2 (AA-2)	ND		ND	ND

	IA-2 (AI-2)	ND		2.3	1.4

Table 1 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/m^3
ND = Non Detect
J = Estimated concentration at or above the Limit of Detection but below the Limit of Quantitation
Not Sampled = Contract required three sampling events previously completed

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).

Groundwater Sample Methodology

Depth to water at each groundwater monitoring well was measured, purging, and sampled on April 22, 2020. Each monitoring well was purged at minimum of three well volumes with a new disposable bailer. Water quality parameters (After purging, samples were taken via bailer. Care was taken to not agitate the water with the bailer during purging, sampling, or filling of the sample vials.

Sample labels were adhered to each sample vial containing the sample identification number (project and facility), date and time of collection, analysis to be conducted, preservative, and the sampler's initials. A chain-of-custody (COC) form was completed after sample collection and the samples were placed in a cooler and shipped under standard COC procedures to the analytical laboratory (Pace Analytical in Green Bay, WI).

Table 2 – Summary of Groundwater Sampling from Former Quality Cleaner Property

Monitoring Well	Sample ID	DTW (feet)	PCE (µg/m^3)
MW-1	MW-1-042220	6.74	**7.7**
MW-2	MW-2-042220	6.45	*2.4*

Table 2Notes
DTW=Depth to Water (feet)
PCE PAL = 0.5 µg/m^3 (exceedance *italicized and underlined*)
PCE ES = 5 µg/m^3 (exceedance **bold**)
All other VOCs analyzed for the wells listed above were non-detect

Further Work

With the completion of the third sampling event and added scope of groundwater sampling two wells, remaining work includes removal of the five vapor pins from the building's concrete flooring and seal the holes. The estimated budget for this proposed work is approximately $1,000.
Please let us know if you have comments or questions.

Kind regards,

Tory Schultz
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April 28, 2020

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

RE: Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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

cc: Tory Schultz, AECOM

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CERTIFICATIONS

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

Pace Analytical Services Minneapolis

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

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SAMPLE SUMMARY

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10515880001	**SS-5 (1102 Bridge St.)**	Air	04/23/20 10:45	04/24/20 11:50

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SAMPLE ANALYTE COUNT

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10515880001	**SS-5 (1102 Bridge St.)**	TO-15	MLS	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10515880001	**SS-5 (1102 Bridge St.)**					
TO-15	Benzene	1.1	ug/m3	0.62	04/27/20 17:51	
TO-15	Dichlorodifluoromethane	2.4	ug/m3	1.9	04/27/20 17:51	
TO-15	Ethanol	100	ug/m3	3.7	04/27/20 17:51	
TO-15	Ethylbenzene	0.90J	ug/m3	1.7	04/27/20 17:51	
TO-15	4-Ethyltoluene	1.0J	ug/m3	4.8	04/27/20 17:51	
TO-15	n-Heptane	0.64J	ug/m3	1.6	04/27/20 17:51	
TO-15	n-Hexane	0.53J	ug/m3	1.4	04/27/20 17:51	
TO-15	Propylene	0.21J	ug/m3	0.67	04/27/20 17:51	
TO-15	Styrene	1.1J	ug/m3	1.7	04/27/20 17:51	
TO-15	Tetrachloroethene	1.1J	ug/m3	1.3	04/27/20 17:51	
TO-15	Toluene	3.0	ug/m3	1.5	04/27/20 17:51	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	2.2	04/27/20 17:51	
TO-15	1,2,4-Trimethylbenzene	2.1	ug/m3	1.9	04/27/20 17:51	
TO-15	1,3,5-Trimethylbenzene	1.4J	ug/m3	1.9	04/27/20 17:51	
TO-15	m&p-Xylene	4.7	ug/m3	3.4	04/27/20 17:51	
TO-15	o-Xylene	1.4J	ug/m3	1.7	04/27/20 17:51	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

Sample: SS-5 (1102 Bridge St.) **Lab ID: 10515880001** Collected: 04/23/20 10:45 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**<2.5**	ug/m3	11.6	2.5	1.92		04/27/20 17:51	67-64-1	
Benzene	**1.1**	ug/m3	0.62	0.25	1.92		04/27/20 17:51	71-43-2	
Benzyl chloride	**<0.91**	ug/m3	5.0	0.91	1.92		04/27/20 17:51	100-44-7	
Bromodichloromethane	**<0.34**	ug/m3	2.6	0.34	1.92		04/27/20 17:51	75-27-4	
Bromoform	**<3.5**	ug/m3	10.1	3.5	1.92		04/27/20 17:51	75-25-2	
Bromomethane	**<0.28**	ug/m3	1.5	0.28	1.92		04/27/20 17:51	74-83-9	
1,3-Butadiene	**<0.20**	ug/m3	0.86	0.20	1.92		04/27/20 17:51	106-99-0	
2-Butanone (MEK)	**<1.1**	ug/m3	5.8	1.1	1.92		04/27/20 17:51	78-93-3	
Carbon disulfide	**<0.21**	ug/m3	1.2	0.21	1.92		04/27/20 17:51	75-15-0	
Carbon tetrachloride	**<0.49**	ug/m3	2.5	0.49	1.92		04/27/20 17:51	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		04/27/20 17:51	108-90-7	
Chloroethane	**<0.24**	ug/m3	1.0	0.24	1.92		04/27/20 17:51	75-00-3	
Chloroform	**<0.26**	ug/m3	0.95	0.26	1.92		04/27/20 17:51	67-66-3	
Chloromethane	**<0.13**	ug/m3	0.81	0.13	1.92		04/27/20 17:51	74-87-3	
Cyclohexane	**<0.28**	ug/m3	3.4	0.28	1.92		04/27/20 17:51	110-82-7	
Dibromochloromethane	**<0.77**	ug/m3	3.3	0.77	1.92		04/27/20 17:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.53**	ug/m3	1.5	0.53	1.92		04/27/20 17:51	106-93-4	
1,2-Dichlorobenzene	**<0.61**	ug/m3	2.3	0.61	1.92		04/27/20 17:51	95-50-1	
1,3-Dichlorobenzene	**<0.92**	ug/m3	2.3	0.92	1.92		04/27/20 17:51	541-73-1	
1,4-Dichlorobenzene	**<1.4**	ug/m3	5.9	1.4	1.92		04/27/20 17:51	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.9	0.32	1.92		04/27/20 17:51	75-71-8	
1,1-Dichloroethane	**<0.22**	ug/m3	1.6	0.22	1.92		04/27/20 17:51	75-34-3	
1,2-Dichloroethane	**<0.32**	ug/m3	0.79	0.32	1.92		04/27/20 17:51	107-06-2	
1,1-Dichloroethene	**<0.23**	ug/m3	1.5	0.23	1.92		04/27/20 17:51	75-35-4	
cis-1,2-Dichloroethene	**<0.22**	ug/m3	1.5	0.22	1.92		04/27/20 17:51	156-59-2	
trans-1,2-Dichloroethene	**<0.32**	ug/m3	1.5	0.32	1.92		04/27/20 17:51	156-60-5	
1,2-Dichloropropane	**<0.38**	ug/m3	1.8	0.38	1.92		04/27/20 17:51	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		04/27/20 17:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		04/27/20 17:51	10061-02-6	
Dichlorotetrafluoroethane	**<0.30**	ug/m3	2.7	0.30	1.92		04/27/20 17:51	76-14-2	
Ethanol	**100**	ug/m3	3.7	1.8	1.92		04/27/20 17:51	64-17-5	
Ethyl acetate	**<0.35**	ug/m3	1.4	0.35	1.92		04/27/20 17:51	141-78-6	
Ethylbenzene	**0.90J**	ug/m3	1.7	0.26	1.92		04/27/20 17:51	100-41-4	
4-Ethyltoluene	**1.0J**	ug/m3	4.8	0.82	1.92		04/27/20 17:51	622-96-8	
n-Heptane	**0.64J**	ug/m3	1.6	0.38	1.92		04/27/20 17:51	142-82-5	
Hexachloro-1,3-butadiene	**<2.4**	ug/m3	10.4	2.4	1.92		04/27/20 17:51	87-68-3	
n-Hexane	**0.53J**	ug/m3	1.4	0.38	1.92		04/27/20 17:51	110-54-3	
2-Hexanone	**<0.66**	ug/m3	8.0	0.66	1.92		04/27/20 17:51	591-78-6	
Methylene Chloride	**<1.8**	ug/m3	6.8	1.8	1.92		04/27/20 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.34**	ug/m3	8.0	0.34	1.92		04/27/20 17:51	108-10-1	
Methyl-tert-butyl ether	**<0.19**	ug/m3	7.0	0.19	1.92		04/27/20 17:51	1634-04-4	
Naphthalene	**<2.4**	ug/m3	5.1	2.4	1.92		04/27/20 17:51	91-20-3	
2-Propanol	**<0.73**	ug/m3	4.8	0.73	1.92		04/27/20 17:51	67-63-0	
Propylene	**0.21J**	ug/m3	0.67	0.19	1.92		04/27/20 17:51	115-07-1	
Styrene	**1.1J**	ug/m3	1.7	0.82	1.92		04/27/20 17:51	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

Sample: SS-5 (1102 Bridge St.) **Lab ID: 10515880001** Collected: 04/23/20 10:45 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,1,2,2-Tetrachloroethane	**<0.59**	ug/m3	1.3	0.59	1.92		04/27/20 17:51	79-34-5	
Tetrachloroethene	**1.1J**	ug/m3	1.3	0.51	1.92		04/27/20 17:51	127-18-4	
Tetrahydrofuran	**<0.35**	ug/m3	1.2	0.35	1.92		04/27/20 17:51	109-99-9	
Toluene	**3.0**	ug/m3	1.5	0.33	1.92		04/27/20 17:51	108-88-3	
1,2,4-Trichlorobenzene	**<6.4**	ug/m3	14.5	6.4	1.92		04/27/20 17:51	120-82-1	
1,1,1-Trichloroethane	**<0.29**	ug/m3	2.1	0.29	1.92		04/27/20 17:51	71-55-6	
1,1,2-Trichloroethane	**<0.38**	ug/m3	1.1	0.38	1.92		04/27/20 17:51	79-00-5	
Trichloroethene	**<0.42**	ug/m3	1.0	0.42	1.92		04/27/20 17:51	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.44	1.92		04/27/20 17:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.49**	ug/m3	3.0	0.49	1.92		04/27/20 17:51	76-13-1	
1,2,4-Trimethylbenzene	**2.1**	ug/m3	1.9	0.60	1.92		04/27/20 17:51	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/m3	1.9	0.48	1.92		04/27/20 17:51	108-67-8	
Vinyl acetate	**<0.34**	ug/m3	1.4	0.34	1.92		04/27/20 17:51	108-05-4	
Vinyl chloride	**<0.18**	ug/m3	0.50	0.18	1.92		04/27/20 17:51	75-01-4	
m&p-Xylene	**4.7**	ug/m3	3.4	0.65	1.92		04/27/20 17:51	179601-23-1	
o-Xylene	**1.4J**	ug/m3	1.7	0.28	1.92		04/27/20 17:51	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

QC Batch: 672172
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10515880001

METHOD BLANK: 3600619 Matrix: Air
Associated Lab Samples: 10515880001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	1.1	04/27/20 10:54	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	04/27/20 10:54	
1,1,2-Trichloroethane	ug/m3	<0.20	0.56	04/27/20 10:54	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.26	1.6	04/27/20 10:54	
1,1-Dichloroethane	ug/m3	<0.11	0.82	04/27/20 10:54	
1,1-Dichloroethene	ug/m3	<0.12	0.81	04/27/20 10:54	
1,2,4-Trichlorobenzene	ug/m3	<3.3	7.5	04/27/20 10:54	
1,2,4-Trimethylbenzene	ug/m3	<0.31	1.0	04/27/20 10:54	
1,2-Dibromoethane (EDB)	ug/m3	<0.28	0.78	04/27/20 10:54	
1,2-Dichlorobenzene	ug/m3	<0.32	1.2	04/27/20 10:54	
1,2-Dichloroethane	ug/m3	<0.17	0.41	04/27/20 10:54	
1,2-Dichloropropane	ug/m3	<0.20	0.94	04/27/20 10:54	
1,3,5-Trimethylbenzene	ug/m3	<0.25	1.0	04/27/20 10:54	
1,3-Butadiene	ug/m3	<0.10	0.45	04/27/20 10:54	
1,3-Dichlorobenzene	ug/m3	<0.48	1.2	04/27/20 10:54	
1,4-Dichlorobenzene	ug/m3	<0.74	3.1	04/27/20 10:54	
2-Butanone (MEK)	ug/m3	<0.56	3.0	04/27/20 10:54	
2-Hexanone	ug/m3	<0.34	4.2	04/27/20 10:54	
2-Propanol	ug/m3	<0.38	2.5	04/27/20 10:54	
4-Ethyltoluene	ug/m3	<0.43	2.5	04/27/20 10:54	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.18	4.2	04/27/20 10:54	
Acetone	ug/m3	<1.3	6.0	04/27/20 10:54	
Benzene	ug/m3	<0.13	0.32	04/27/20 10:54	
Benzyl chloride	ug/m3	<0.47	2.6	04/27/20 10:54	
Bromodichloromethane	ug/m3	<0.18	1.4	04/27/20 10:54	
Bromoform	ug/m3	<1.8	5.2	04/27/20 10:54	
Bromomethane	ug/m3	<0.15	0.79	04/27/20 10:54	
Carbon disulfide	ug/m3	<0.11	0.63	04/27/20 10:54	
Carbon tetrachloride	ug/m3	<0.26	1.3	04/27/20 10:54	
Chlorobenzene	ug/m3	<0.13	0.94	04/27/20 10:54	
Chloroethane	ug/m3	<0.13	0.54	04/27/20 10:54	
Chloroform	ug/m3	<0.13	0.50	04/27/20 10:54	
Chloromethane	ug/m3	<0.066	0.42	04/27/20 10:54	
cis-1,2-Dichloroethene	ug/m3	<0.12	0.81	04/27/20 10:54	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	04/27/20 10:54	
Cyclohexane	ug/m3	<0.15	1.8	04/27/20 10:54	
Dibromochloromethane	ug/m3	<0.40	1.7	04/27/20 10:54	
Dichlorodifluoromethane	ug/m3	<0.17	1.0	04/27/20 10:54	
Dichlorotetrafluoroethane	ug/m3	<0.16	1.4	04/27/20 10:54	
Ethanol	ug/m3	<0.94	1.9	04/27/20 10:54	

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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

METHOD BLANK: 3600619 Matrix: Air
Associated Lab Samples: 10515880001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.18	0.73	04/27/20 10:54	
Ethylbenzene	ug/m3	<0.14	0.88	04/27/20 10:54	
Hexachloro-1,3-butadiene	ug/m3	<1.2	5.4	04/27/20 10:54	
m&p-Xylene	ug/m3	<0.34	1.8	04/27/20 10:54	
Methyl-tert-butyl ether	ug/m3	<0.10	3.7	04/27/20 10:54	
Methylene Chloride	ug/m3	<0.93	3.5	04/27/20 10:54	
n-Heptane	ug/m3	<0.20	0.83	04/27/20 10:54	
n-Hexane	ug/m3	<0.20	0.72	04/27/20 10:54	
Naphthalene	ug/m3	<1.3	2.7	04/27/20 10:54	
o-Xylene	ug/m3	<0.15	0.88	04/27/20 10:54	
Propylene	ug/m3	<0.098	0.35	04/27/20 10:54	
Styrene	ug/m3	<0.43	0.87	04/27/20 10:54	
Tetrachloroethene	ug/m3	<0.27	0.69	04/27/20 10:54	
Tetrahydrofuran	ug/m3	<0.18	0.60	04/27/20 10:54	
Toluene	ug/m3	<0.17	0.77	04/27/20 10:54	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	04/27/20 10:54	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	04/27/20 10:54	
Trichloroethene	ug/m3	<0.22	0.55	04/27/20 10:54	
Trichlorofluoromethane	ug/m3	<0.23	1.1	04/27/20 10:54	
Vinyl acetate	ug/m3	<0.18	0.72	04/27/20 10:54	
Vinyl chloride	ug/m3	<0.096	0.26	04/27/20 10:54	

LABORATORY CONTROL SAMPLE: 3600620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	60.9	107	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	84.5	118	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	61.4	107	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	83.3	104	70-130	
1,1-Dichloroethane	ug/m3	42.7	49.3	115	70-130	
1,1-Dichloroethene	ug/m3	41.4	43.9	106	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	147	94	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	59.9	116	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	92.6	115	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	68.9	109	70-136	
1,2-Dichloroethane	ug/m3	42.4	47.1	111	70-130	
1,2-Dichloropropane	ug/m3	48.6	54.5	112	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	67.0	130	70-136	
1,3-Butadiene	ug/m3	23.3	24.9	107	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	73.5	116	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	73.7	116	70-145	
2-Butanone (MEK)	ug/m3	31.4	35.5	113	61-130	
2-Hexanone	ug/m3	42.8	55.5	130	70-138	
2-Propanol	ug/m3	119	140	118	70-136	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

LABORATORY CONTROL SAMPLE: 3600620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.4	68.1	130	70-142	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	55.1	126	70-134	
Acetone	ug/m3	126	156	123	59-137	
Benzene	ug/m3	33.5	34.7	103	70-133	
Benzyl chloride	ug/m3	55.1	57.1	104	70-139	
Bromodichloromethane	ug/m3	71.5	81.3	114	70-130	
Bromoform	ug/m3	110	122	111	60-140	
Bromomethane	ug/m3	41.3	44.5	108	70-131	
Carbon disulfide	ug/m3	33.3	38.0	114	70-130	
Carbon tetrachloride	ug/m3	66.2	77.7	117	70-133	
Chlorobenzene	ug/m3	48.3	52.3	108	70-131	
Chloroethane	ug/m3	28.1	35.2	125	70-141	
Chloroform	ug/m3	51.1	59.5	117	70-130	
Chloromethane	ug/m3	21.9	23.7	108	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	43.8	105	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	59.6	125	70-138	
Cyclohexane	ug/m3	36.7	42.0	114	70-133	
Dibromochloromethane	ug/m3	90.7	103	113	70-139	
Dichlorodifluoromethane	ug/m3	51.6	54.4	105	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	78.3	108	65-133	
Ethanol	ug/m3	103	105	103	65-135	
Ethyl acetate	ug/m3	38.6	41.3	107	70-135	
Ethylbenzene	ug/m3	45.6	56.0	123	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	116	104	70-134	
m&p-Xylene	ug/m3	91.2	113	124	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	41.1	107	70-131	
Methylene Chloride	ug/m3	182	213	117	69-130	
n-Heptane	ug/m3	43.6	44.0	101	70-130	
n-Hexane	ug/m3	37.6	38.5	102	70-131	
Naphthalene	ug/m3	57.7	53.1	92	63-130	
o-Xylene	ug/m3	45.5	54.0	119	70-135	
Propylene	ug/m3	18.2	18.9	104	63-139	
Styrene	ug/m3	44.9	50.9	113	70-143	
Tetrachloroethene	ug/m3	71	71.8	101	70-136	
Tetrahydrofuran	ug/m3	31.5	35.6	113	70-137	
Toluene	ug/m3	39.5	47.2	119	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	43.5	103	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	53.2	112	70-139	
Trichloroethene	ug/m3	56.3	56.7	101	70-132	
Trichlorofluoromethane	ug/m3	59.7	63.6	107	65-136	
Vinyl acetate	ug/m3	34.5	42.5	123	66-140	
Vinyl chloride	ug/m3	26.7	31.9	120	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

SAMPLE DUPLICATE: 3601165

Parameter	Units	10515889001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	<0.31		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.62	<0.62		25	
1,1,2-Trichloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.55J	<0.52		25	
1,1-Dichloroethane	ug/m3	<0.23	<0.23		25	
1,1-Dichloroethene	ug/m3	<0.24	<0.24		25	
1,2,4-Trichlorobenzene	ug/m3	<6.7	<6.7		25	
1,2,4-Trimethylbenzene	ug/m3	<0.63	<0.63		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.55	<0.55		25	
1,2-Dichlorobenzene	ug/m3	<0.64	<0.64		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.40	<0.40		25	
1,3,5-Trimethylbenzene	ug/m3	<0.50	<0.50		25	
1,3-Butadiene	ug/m3	<0.21	<0.21		25	
1,3-Dichlorobenzene	ug/m3	<0.96	<0.96		25	
1,4-Dichlorobenzene	ug/m3	<1.5	<1.5		25	
2-Butanone (MEK)	ug/m3	<1.1	<1.1		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	<0.76	<0.76		25	
4-Ethyltoluene	ug/m3	<0.86	<0.86		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	<2.6	<2.6		25	
Benzene	ug/m3	0.42J	0.38J		25	
Benzyl chloride	ug/m3	<0.95	<0.95		25	
Bromodichloromethane	ug/m3	<0.35	<0.35		25	
Bromoform	ug/m3	<3.6	<3.6		25	
Bromomethane	ug/m3	<0.29	<0.29		25	
Carbon disulfide	ug/m3	<0.22	<0.22		25	
Carbon tetrachloride	ug/m3	<0.51	<0.51		25	
Chlorobenzene	ug/m3	<0.27	<0.27		25	
Chloroethane	ug/m3	<0.25	<0.25		25	
Chloroform	ug/m3	<0.27	<0.27		25	
Chloromethane	ug/m3	0.98	1.1	11	25	
cis-1,2-Dichloroethene	ug/m3	<0.23	<0.23		25	
cis-1,3-Dichloropropene	ug/m3	<0.75	<0.75		25	
Cyclohexane	ug/m3	0.76J	0.72J		25	
Dibromochloromethane	ug/m3	<0.81	<0.81		25	
Dichlorodifluoromethane	ug/m3	2.7	2.6	4	25	
Dichlorotetrafluoroethane	ug/m3	<0.32	<0.32		25	
Ethanol	ug/m3	18.6	21.1	13	25	
Ethyl acetate	ug/m3	<0.37	<0.37		25	
Ethylbenzene	ug/m3	<0.28	<0.28		25	
Hexachloro-1,3-butadiene	ug/m3	<2.5	<2.5		25	
m&p-Xylene	ug/m3	<0.68	<0.68		25	
Methyl-tert-butyl ether	ug/m3	<0.20	<0.20		25	
Methylene Chloride	ug/m3	<1.9	<1.9		25	
n-Heptane	ug/m3	<0.40	<0.40		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

SAMPLE DUPLICATE: 3601165

Parameter	Units	10515889001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.55J	<0.40		25	
Naphthalene	ug/m3	<2.6	<2.6		25	
o-Xylene	ug/m3	<0.30	<0.30		25	
Propylene	ug/m3	0.92	<0.20		25	
Styrene	ug/m3	<0.86	<0.86		25	
Tetrachloroethene	ug/m3	<0.54	<0.54		25	
Tetrahydrofuran	ug/m3	<0.37	<0.37		25	
Toluene	ug/m3	0.44J	0.42J		25	
trans-1,2-Dichloroethene	ug/m3	<0.34	<0.34		25	
trans-1,3-Dichloropropene	ug/m3	<0.53	<0.53		25	
Trichloroethene	ug/m3	<0.44	<0.44		25	
Trichlorofluoromethane	ug/m3	1.2J	1.5J		25	
Vinyl acetate	ug/m3	<0.36	<0.36		25	
Vinyl chloride	ug/m3	<0.19	<0.19		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

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.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60602996 Grafton VI; Format Qu
Pace Project No.: 10515880

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10515880001	**SS-5 (1102 Bridge St.)**	TO-15	672172		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

48317

Page: 1 of 1

Section A Required Client Information:

Company: AECOM
Address: 1555 N River Center Drive Suite 214 Milwaukee WI, 53212
Email To: tory.schultz@AECOM.com
Phone: 414.944.6168 Fax: n/a
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Lanette Altenbach
Copy To: lanette.altenbach@AECOM.com
Purchase Order No.:
Project Name: Grafton VI; Former Quality Cleaners
Project Number: 60602996

Section C Invoice Information:

Attention: USAPIMAGING@AECOM.com
Company Name: Same
Address: Same
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☑ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ ☒ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other ___

'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

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	SS-5 (1102 Bridge St.)	6LC	0.1	04.23.20	1017	04.23.20	1045	29	10	34002814						X					001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WO#: 10515880

10515880

KEN 04.23.20

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
AECOM	04.23.20	1500	Pace	4/24/20	1150

SAMPLE CONDITIONS

–	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Nielsen

SIGNATURE of SAMPLER: KEN DATE Signed (MM / DD / YY): 04.23.20

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: AECOM **Project #:** **WO#: 10515880**

PM: CT1 **Due Date: 05/01/20**

CLIENT: AECOM-WI

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Pace [ ] SpeeDee [ ] Commercial **See Exception** [ ]

Tracking Number: 1723 2541 9893

Custody Seal on Cooler/Box Present? [X] Yes [ ] No **Seals Intact?** [X] Yes [ ] No

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

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** —

Thermometer Used: [ ] G87A9170600254 [ ] G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** RG 4/24/20

Type of ice Received [ ] Blue [ ] Wet [X] None

				Comments:
Chain of Custody Present?	[X] Yes	[ ] No		1.
Chain of Custody Filled Out?	[X] Yes	[ ] No		2.
Chain of Custody Relinquished?	[X] Yes	[ ] No		3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No		5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No		6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No		7.
Sufficient Volume?	[X] Yes	[ ] No		8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	[X] Yes [X] Yes	[ ] No [ ] No		9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	[X] Yes	[ ] No		10.
Media: Air Can Airbag Filter TDT Passive				11. Individually Certified Cans Y N (list which samples)
Is sufficient information available to reconcile samples to the COC?	[X] Yes	[ ] No		12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	[X] Yes	[ ] 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-5	3400	2814	-9	+5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolyne Trout **Date:** 4/24/20

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 28, 2020

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

RE: Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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

cc: Tory Schultz, AECOM

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Pace Analytical Services Minneapolis

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

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SAMPLE SUMMARY

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10515889001	**OA-2 (1225-1227 12th Ave)**	Air	04/23/20 10:12	04/24/20 11:50
10515889002	**IA-2 (1225-1227 12th Ave)**	Air	04/23/20 10:07	04/24/20 11:50
10515889003	**SS-4 (1225-1227 12th Ave)**	Air	04/23/20 10:48	04/24/20 11:50

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SAMPLE ANALYTE COUNT

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10515889001	**OA-2 (1225-1227 12th Ave)**	TO-15	MLS	61	PASI-M
10515889002	**IA-2 (1225-1227 12th Ave)**	TO-15	MLS	61	PASI-M
10515889003	**SS-4 (1225-1227 12th Ave)**	TO-15	MLS	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10515889001	**OA-2 (1225-1227 12th Ave)**					
TO-15	Benzene	0.42J	ug/m3	0.65	04/27/20 19:16	
TO-15	Chloromethane	0.98	ug/m3	0.84	04/27/20 19:16	
TO-15	Cyclohexane	0.76J	ug/m3	3.5	04/27/20 19:16	
TO-15	Dichlorodifluoromethane	2.7	ug/m3	2.0	04/27/20 19:16	
TO-15	Ethanol	18.6	ug/m3	3.9	04/27/20 19:16	
TO-15	n-Hexane	0.55J	ug/m3	1.4	04/27/20 19:16	
TO-15	Propylene	0.92	ug/m3	0.70	04/27/20 19:16	
TO-15	Toluene	0.44J	ug/m3	1.5	04/27/20 19:16	
TO-15	Trichlorofluoromethane	1.2J	ug/m3	2.3	04/27/20 19:16	
TO-15	1,1,2-Trichlorotrifluoroethane	0.55J	ug/m3	3.1	04/27/20 19:16	
10515889002	**IA-2 (1225-1227 12th Ave)**					
TO-15	Acetone	27.7	ug/m3	8.7	04/27/20 20:12	
TO-15	Benzene	0.42J	ug/m3	0.47	04/27/20 20:12	
TO-15	Chloromethane	1.1	ug/m3	0.60	04/27/20 20:12	
TO-15	Cyclohexane	1.1J	ug/m3	2.5	04/27/20 20:12	
TO-15	Dichlorodifluoromethane	2.5	ug/m3	1.5	04/27/20 20:12	
TO-15	1,2-Dichloroethane	0.42J	ug/m3	0.59	04/27/20 20:12	
TO-15	Ethanol	350	ug/m3	2.8	04/27/20 20:12	
TO-15	Ethyl acetate	0.69J	ug/m3	1.1	04/27/20 20:12	
TO-15	n-Heptane	1.0J	ug/m3	1.2	04/27/20 20:12	
TO-15	2-Propanol	15.9	ug/m3	3.6	04/27/20 20:12	
TO-15	Propylene	1.4	ug/m3	0.50	04/27/20 20:12	
TO-15	Tetrachloroethene	1.4	ug/m3	0.99	04/27/20 20:12	
TO-15	Toluene	0.96J	ug/m3	1.1	04/27/20 20:12	
TO-15	Trichlorofluoromethane	1.2J	ug/m3	1.6	04/27/20 20:12	
TO-15	1,2,4-Trimethylbenzene	0.48J	ug/m3	1.4	04/27/20 20:12	
10515889003	**SS-4 (1225-1227 12th Ave)**					
TO-15	2-Butanone (MEK)	1.0J	ug/m3	4.8	04/27/20 20:40	
TO-15	Dichlorodifluoromethane	2.7	ug/m3	1.6	04/27/20 20:40	
TO-15	Ethanol	88.2	ug/m3	3.1	04/27/20 20:40	
TO-15	Ethyl acetate	1.6	ug/m3	1.2	04/27/20 20:40	
TO-15	Ethylbenzene	1.0J	ug/m3	1.4	04/27/20 20:40	
TO-15	n-Heptane	0.69J	ug/m3	1.3	04/27/20 20:40	
TO-15	n-Hexane	0.51J	ug/m3	1.2	04/27/20 20:40	
TO-15	2-Propanol	0.95J	ug/m3	4.0	04/27/20 20:40	
TO-15	Tetrachloroethene	0.76J	ug/m3	1.1	04/27/20 20:40	
TO-15	Toluene	3.5	ug/m3	1.2	04/27/20 20:40	
TO-15	Trichloroethene	7.4	ug/m3	0.88	04/27/20 20:40	
TO-15	Trichlorofluoromethane	1.7J	ug/m3	1.8	04/27/20 20:40	
TO-15	1,1,2-Trichlorotrifluoroethane	0.60J	ug/m3	2.5	04/27/20 20:40	
TO-15	1,2,4-Trimethylbenzene	1.5J	ug/m3	1.6	04/27/20 20:40	
TO-15	1,3,5-Trimethylbenzene	0.84J	ug/m3	1.6	04/27/20 20:40	
TO-15	m&p-Xylene	4.9	ug/m3	2.8	04/27/20 20:40	
TO-15	o-Xylene	1.5	ug/m3	1.4	04/27/20 20:40	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Sample: OA-2 (1225-1227 12th Ave) **Lab ID: 10515889001** Collected: 04/23/20 10:12 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**<2.6**	ug/m3	12.1	2.6	2.01		04/27/20 19:16	67-64-1	
Benzene	**0.42J**	ug/m3	0.65	0.26	2.01		04/27/20 19:16	71-43-2	
Benzyl chloride	**<0.95**	ug/m3	5.3	0.95	2.01		04/27/20 19:16	100-44-7	
Bromodichloromethane	**<0.35**	ug/m3	2.7	0.35	2.01		04/27/20 19:16	75-27-4	
Bromoform	**<3.6**	ug/m3	10.6	3.6	2.01		04/27/20 19:16	75-25-2	
Bromomethane	**<0.29**	ug/m3	1.6	0.29	2.01		04/27/20 19:16	74-83-9	
1,3-Butadiene	**<0.21**	ug/m3	0.90	0.21	2.01		04/27/20 19:16	106-99-0	
2-Butanone (MEK)	**<1.1**	ug/m3	6.0	1.1	2.01		04/27/20 19:16	78-93-3	
Carbon disulfide	**<0.22**	ug/m3	1.3	0.22	2.01		04/27/20 19:16	75-15-0	
Carbon tetrachloride	**<0.51**	ug/m3	2.6	0.51	2.01		04/27/20 19:16	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		04/27/20 19:16	108-90-7	
Chloroethane	**<0.25**	ug/m3	1.1	0.25	2.01		04/27/20 19:16	75-00-3	
Chloroform	**<0.27**	ug/m3	1.0	0.27	2.01		04/27/20 19:16	67-66-3	
Chloromethane	**0.98**	ug/m3	0.84	0.13	2.01		04/27/20 19:16	74-87-3	
Cyclohexane	**0.76J**	ug/m3	3.5	0.29	2.01		04/27/20 19:16	110-82-7	
Dibromochloromethane	**<0.81**	ug/m3	3.5	0.81	2.01		04/27/20 19:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.55**	ug/m3	1.6	0.55	2.01		04/27/20 19:16	106-93-4	
1,2-Dichlorobenzene	**<0.64**	ug/m3	2.5	0.64	2.01		04/27/20 19:16	95-50-1	
1,3-Dichlorobenzene	**<0.96**	ug/m3	2.5	0.96	2.01		04/27/20 19:16	541-73-1	
1,4-Dichlorobenzene	**<1.5**	ug/m3	6.2	1.5	2.01		04/27/20 19:16	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	2.0	0.34	2.01		04/27/20 19:16	75-71-8	
1,1-Dichloroethane	**<0.23**	ug/m3	1.7	0.23	2.01		04/27/20 19:16	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.83	0.34	2.01		04/27/20 19:16	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/m3	1.6	0.24	2.01		04/27/20 19:16	75-35-4	
cis-1,2-Dichloroethene	**<0.23**	ug/m3	1.6	0.23	2.01		04/27/20 19:16	156-59-2	
trans-1,2-Dichloroethene	**<0.34**	ug/m3	1.6	0.34	2.01		04/27/20 19:16	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.9	0.40	2.01		04/27/20 19:16	78-87-5	
cis-1,3-Dichloropropene	**<0.75**	ug/m3	1.9	0.75	2.01		04/27/20 19:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.53**	ug/m3	1.9	0.53	2.01		04/27/20 19:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.32**	ug/m3	2.9	0.32	2.01		04/27/20 19:16	76-14-2	
Ethanol	**18.6**	ug/m3	3.9	1.9	2.01		04/27/20 19:16	64-17-5	
Ethyl acetate	**<0.37**	ug/m3	1.5	0.37	2.01		04/27/20 19:16	141-78-6	
Ethylbenzene	**<0.28**	ug/m3	1.8	0.28	2.01		04/27/20 19:16	100-41-4	
4-Ethyltoluene	**<0.86**	ug/m3	5.0	0.86	2.01		04/27/20 19:16	622-96-8	
n-Heptane	**<0.40**	ug/m3	1.7	0.40	2.01		04/27/20 19:16	142-82-5	
Hexachloro-1,3-butadiene	**<2.5**	ug/m3	10.9	2.5	2.01		04/27/20 19:16	87-68-3	
n-Hexane	**0.55J**	ug/m3	1.4	0.40	2.01		04/27/20 19:16	110-54-3	
2-Hexanone	**<0.69**	ug/m3	8.4	0.69	2.01		04/27/20 19:16	591-78-6	
Methylene Chloride	**<1.9**	ug/m3	7.1	1.9	2.01		04/27/20 19:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	8.4	0.36	2.01		04/27/20 19:16	108-10-1	
Methyl-tert-butyl ether	**<0.20**	ug/m3	7.4	0.20	2.01		04/27/20 19:16	1634-04-4	
Naphthalene	**<2.6**	ug/m3	5.3	2.6	2.01		04/27/20 19:16	91-20-3	
2-Propanol	**<0.76**	ug/m3	5.0	0.76	2.01		04/27/20 19:16	67-63-0	
Propylene	**0.92**	ug/m3	0.70	0.20	2.01		04/27/20 19:16	115-07-1	
Styrene	**<0.86**	ug/m3	1.7	0.86	2.01		04/27/20 19:16	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Sample: OA-2 (1225-1227 12th Ave) **Lab ID: 10515889001** Collected: 04/23/20 10:12 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
1,1,2,2-Tetrachloroethane	**<0.62**	ug/m3	1.4	0.62	2.01		04/27/20 19:16	79-34-5	
Tetrachloroethene	**<0.54**	ug/m3	1.4	0.54	2.01		04/27/20 19:16	127-18-4	
Tetrahydrofuran	**<0.37**	ug/m3	1.2	0.37	2.01		04/27/20 19:16	109-99-9	
Toluene	**0.44J**	ug/m3	1.5	0.34	2.01		04/27/20 19:16	108-88-3	
1,2,4-Trichlorobenzene	**<6.7**	ug/m3	15.2	6.7	2.01		04/27/20 19:16	120-82-1	
1,1,1-Trichloroethane	**<0.31**	ug/m3	2.2	0.31	2.01		04/27/20 19:16	71-55-6	
1,1,2-Trichloroethane	**<0.40**	ug/m3	1.1	0.40	2.01		04/27/20 19:16	79-00-5	
Trichloroethene	**<0.44**	ug/m3	1.1	0.44	2.01		04/27/20 19:16	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.3	0.46	2.01		04/27/20 19:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.55J**	ug/m3	3.1	0.52	2.01		04/27/20 19:16	76-13-1	
1,2,4-Trimethylbenzene	**<0.63**	ug/m3	2.0	0.63	2.01		04/27/20 19:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/m3	2.0	0.50	2.01		04/27/20 19:16	108-67-8	
Vinyl acetate	**<0.36**	ug/m3	1.4	0.36	2.01		04/27/20 19:16	108-05-4	
Vinyl chloride	**<0.19**	ug/m3	0.52	0.19	2.01		04/27/20 19:16	75-01-4	
m&p-Xylene	**<0.68**	ug/m3	3.6	0.68	2.01		04/27/20 19:16	179601-23-1	
o-Xylene	**<0.30**	ug/m3	1.8	0.30	2.01		04/27/20 19:16	95-47-6	

Sample: IA-2 (1225-1227 12th Ave) **Lab ID: 10515889002** Collected: 04/23/20 10:07 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
Acetone	**27.7**	ug/m3	8.7	1.8	1.44		04/27/20 20:12	67-64-1	
Benzene	**0.42J**	ug/m3	0.47	0.19	1.44		04/27/20 20:12	71-43-2	
Benzyl chloride	**<0.68**	ug/m3	3.8	0.68	1.44		04/27/20 20:12	100-44-7	
Bromodichloromethane	**<0.25**	ug/m3	2.0	0.25	1.44		04/27/20 20:12	75-27-4	
Bromoform	**<2.6**	ug/m3	7.6	2.6	1.44		04/27/20 20:12	75-25-2	
Bromomethane	**<0.21**	ug/m3	1.1	0.21	1.44		04/27/20 20:12	74-83-9	
1,3-Butadiene	**<0.15**	ug/m3	0.65	0.15	1.44		04/27/20 20:12	106-99-0	
2-Butanone (MEK)	**<0.80**	ug/m3	4.3	0.80	1.44		04/27/20 20:12	78-93-3	
Carbon disulfide	**<0.15**	ug/m3	0.91	0.15	1.44		04/27/20 20:12	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.8	0.37	1.44		04/27/20 20:12	56-23-5	
Chlorobenzene	**<0.19**	ug/m3	1.3	0.19	1.44		04/27/20 20:12	108-90-7	
Chloroethane	**<0.18**	ug/m3	0.77	0.18	1.44		04/27/20 20:12	75-00-3	
Chloroform	**<0.19**	ug/m3	0.71	0.19	1.44		04/27/20 20:12	67-66-3	
Chloromethane	**1.1**	ug/m3	0.60	0.095	1.44		04/27/20 20:12	74-87-3	
Cyclohexane	**1.1J**	ug/m3	2.5	0.21	1.44		04/27/20 20:12	110-82-7	
Dibromochloromethane	**<0.58**	ug/m3	2.5	0.58	1.44		04/27/20 20:12	124-48-1	
1,2-Dibromoethane (EDB)	**<0.40**	ug/m3	1.1	0.40	1.44		04/27/20 20:12	106-93-4	
1,2-Dichlorobenzene	**<0.46**	ug/m3	1.8	0.46	1.44		04/27/20 20:12	95-50-1	
1,3-Dichlorobenzene	**<0.69**	ug/m3	1.8	0.69	1.44		04/27/20 20:12	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/m3	4.4	1.1	1.44		04/27/20 20:12	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Sample: IA-2 (1225-1227 12th Ave) **Lab ID: 10515889002** Collected: 04/23/20 10:07 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Dichlorodifluoromethane	**2.5**	ug/m3	1.5	0.24	1.44		04/27/20 20:12	75-71-8	
1,1-Dichloroethane	**<0.16**	ug/m3	1.2	0.16	1.44		04/27/20 20:12	75-34-3	
1,2-Dichloroethane	**0.42J**	ug/m3	0.59	0.24	1.44		04/27/20 20:12	107-06-2	
1,1-Dichloroethene	**<0.17**	ug/m3	1.2	0.17	1.44		04/27/20 20:12	75-35-4	
cis-1,2-Dichloroethene	**<0.17**	ug/m3	1.2	0.17	1.44		04/27/20 20:12	156-59-2	
trans-1,2-Dichloroethene	**<0.24**	ug/m3	1.2	0.24	1.44		04/27/20 20:12	156-60-5	
1,2-Dichloropropane	**<0.29**	ug/m3	1.4	0.29	1.44		04/27/20 20:12	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.3	0.53	1.44		04/27/20 20:12	10061-01-5	
trans-1,3-Dichloropropene	**<0.38**	ug/m3	1.3	0.38	1.44		04/27/20 20:12	10061-02-6	
Dichlorotetrafluoroethane	**<0.23**	ug/m3	2.0	0.23	1.44		04/27/20 20:12	76-14-2	
Ethanol	**350**	ug/m3	2.8	1.4	1.44		04/27/20 20:12	64-17-5	
Ethyl acetate	**0.69J**	ug/m3	1.1	0.26	1.44		04/27/20 20:12	141-78-6	
Ethylbenzene	**<0.20**	ug/m3	1.3	0.20	1.44		04/27/20 20:12	100-41-4	
4-Ethyltoluene	**<0.62**	ug/m3	3.6	0.62	1.44		04/27/20 20:12	622-96-8	
n-Heptane	**1.0J**	ug/m3	1.2	0.28	1.44		04/27/20 20:12	142-82-5	
Hexachloro-1,3-butadiene	**<1.8**	ug/m3	7.8	1.8	1.44		04/27/20 20:12	87-68-3	
n-Hexane	**<0.29**	ug/m3	1.0	0.29	1.44		04/27/20 20:12	110-54-3	
2-Hexanone	**<0.50**	ug/m3	6.0	0.50	1.44		04/27/20 20:12	591-78-6	
Methylene Chloride	**<1.3**	ug/m3	5.1	1.3	1.44		04/27/20 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.25**	ug/m3	6.0	0.25	1.44		04/27/20 20:12	108-10-1	
Methyl-tert-butyl ether	**<0.14**	ug/m3	5.3	0.14	1.44		04/27/20 20:12	1634-04-4	
Naphthalene	**<1.8**	ug/m3	3.8	1.8	1.44		04/27/20 20:12	91-20-3	
2-Propanol	**15.9**	ug/m3	3.6	0.55	1.44		04/27/20 20:12	67-63-0	
Propylene	**1.4**	ug/m3	0.50	0.14	1.44		04/27/20 20:12	115-07-1	
Styrene	**<0.62**	ug/m3	1.2	0.62	1.44		04/27/20 20:12	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.44**	ug/m3	1.0	0.44	1.44		04/27/20 20:12	79-34-5	
Tetrachloroethene	**1.4**	ug/m3	0.99	0.39	1.44		04/27/20 20:12	127-18-4	
Tetrahydrofuran	**<0.26**	ug/m3	0.86	0.26	1.44		04/27/20 20:12	109-99-9	
Toluene	**0.96J**	ug/m3	1.1	0.25	1.44		04/27/20 20:12	108-88-3	
1,2,4-Trichlorobenzene	**<4.8**	ug/m3	10.9	4.8	1.44		04/27/20 20:12	120-82-1	
1,1,1-Trichloroethane	**<0.22**	ug/m3	1.6	0.22	1.44		04/27/20 20:12	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/m3	0.80	0.29	1.44		04/27/20 20:12	79-00-5	
Trichloroethene	**<0.32**	ug/m3	0.79	0.32	1.44		04/27/20 20:12	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	1.6	0.33	1.44		04/27/20 20:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.37**	ug/m3	2.2	0.37	1.44		04/27/20 20:12	76-13-1	
1,2,4-Trimethylbenzene	**0.48J**	ug/m3	1.4	0.45	1.44		04/27/20 20:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/m3	1.4	0.36	1.44		04/27/20 20:12	108-67-8	
Vinyl acetate	**<0.25**	ug/m3	1.0	0.25	1.44		04/27/20 20:12	108-05-4	
Vinyl chloride	**<0.14**	ug/m3	0.37	0.14	1.44		04/27/20 20:12	75-01-4	
m&p-Xylene	**<0.49**	ug/m3	2.5	0.49	1.44		04/27/20 20:12	179601-23-1	
o-Xylene	**<0.21**	ug/m3	1.3	0.21	1.44		04/27/20 20:12	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Sample: SS-4 (1225-1227 12th Ave) **Lab ID: 10515889003** Collected: 04/23/20 10:48 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**<2.1**	ug/m3	9.7	2.1	1.61		04/27/20 20:40	67-64-1	
Benzene	**<0.21**	ug/m3	0.52	0.21	1.61		04/27/20 20:40	71-43-2	
Benzyl chloride	**<0.76**	ug/m3	4.2	0.76	1.61		04/27/20 20:40	100-44-7	
Bromodichloromethane	**<0.28**	ug/m3	2.2	0.28	1.61		04/27/20 20:40	75-27-4	
Bromoform	**<2.9**	ug/m3	8.5	2.9	1.61		04/27/20 20:40	75-25-2	
Bromomethane	**<0.24**	ug/m3	1.3	0.24	1.61		04/27/20 20:40	74-83-9	
1,3-Butadiene	**<0.17**	ug/m3	0.72	0.17	1.61		04/27/20 20:40	106-99-0	
2-Butanone (MEK)	**1.0J**	ug/m3	4.8	0.90	1.61		04/27/20 20:40	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.0	0.17	1.61		04/27/20 20:40	75-15-0	
Carbon tetrachloride	**<0.41**	ug/m3	2.1	0.41	1.61		04/27/20 20:40	56-23-5	
Chlorobenzene	**<0.21**	ug/m3	1.5	0.21	1.61		04/27/20 20:40	108-90-7	
Chloroethane	**<0.20**	ug/m3	0.86	0.20	1.61		04/27/20 20:40	75-00-3	
Chloroform	**<0.21**	ug/m3	0.80	0.21	1.61		04/27/20 20:40	67-66-3	
Chloromethane	**<0.11**	ug/m3	0.68	0.11	1.61		04/27/20 20:40	74-87-3	
Cyclohexane	**<0.24**	ug/m3	2.8	0.24	1.61		04/27/20 20:40	110-82-7	
Dibromochloromethane	**<0.65**	ug/m3	2.8	0.65	1.61		04/27/20 20:40	124-48-1	
1,2-Dibromoethane (EDB)	**<0.44**	ug/m3	1.3	0.44	1.61		04/27/20 20:40	106-93-4	
1,2-Dichlorobenzene	**<0.51**	ug/m3	2.0	0.51	1.61		04/27/20 20:40	95-50-1	
1,3-Dichlorobenzene	**<0.77**	ug/m3	2.0	0.77	1.61		04/27/20 20:40	541-73-1	
1,4-Dichlorobenzene	**<1.2**	ug/m3	4.9	1.2	1.61		04/27/20 20:40	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.6	0.27	1.61		04/27/20 20:40	75-71-8	
1,1-Dichloroethane	**<0.18**	ug/m3	1.3	0.18	1.61		04/27/20 20:40	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.66	0.27	1.61		04/27/20 20:40	107-06-2	
1,1-Dichloroethene	**<0.19**	ug/m3	1.3	0.19	1.61		04/27/20 20:40	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/m3	1.3	0.19	1.61		04/27/20 20:40	156-59-2	
trans-1,2-Dichloroethene	**<0.27**	ug/m3	1.3	0.27	1.61		04/27/20 20:40	156-60-5	
1,2-Dichloropropane	**<0.32**	ug/m3	1.5	0.32	1.61		04/27/20 20:40	78-87-5	
cis-1,3-Dichloropropene	**<0.60**	ug/m3	1.5	0.60	1.61		04/27/20 20:40	10061-01-5	
trans-1,3-Dichloropropene	**<0.42**	ug/m3	1.5	0.42	1.61		04/27/20 20:40	10061-02-6	
Dichlorotetrafluoroethane	**<0.25**	ug/m3	2.3	0.25	1.61		04/27/20 20:40	76-14-2	
Ethanol	**88.2**	ug/m3	3.1	1.5	1.61		04/27/20 20:40	64-17-5	
Ethyl acetate	**1.6**	ug/m3	1.2	0.30	1.61		04/27/20 20:40	141-78-6	
Ethylbenzene	**1.0J**	ug/m3	1.4	0.22	1.61		04/27/20 20:40	100-41-4	
4-Ethyltoluene	**<0.69**	ug/m3	4.0	0.69	1.61		04/27/20 20:40	622-96-8	
n-Heptane	**0.69J**	ug/m3	1.3	0.32	1.61		04/27/20 20:40	142-82-5	
Hexachloro-1,3-butadiene	**<2.0**	ug/m3	8.7	2.0	1.61		04/27/20 20:40	87-68-3	
n-Hexane	**0.51J**	ug/m3	1.2	0.32	1.61		04/27/20 20:40	110-54-3	
2-Hexanone	**<0.56**	ug/m3	6.7	0.56	1.61		04/27/20 20:40	591-78-6	
Methylene Chloride	**<1.5**	ug/m3	5.7	1.5	1.61		04/27/20 20:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.28**	ug/m3	6.7	0.28	1.61		04/27/20 20:40	108-10-1	
Methyl-tert-butyl ether	**<0.16**	ug/m3	5.9	0.16	1.61		04/27/20 20:40	1634-04-4	
Naphthalene	**<2.0**	ug/m3	4.3	2.0	1.61		04/27/20 20:40	91-20-3	
2-Propanol	**0.95J**	ug/m3	4.0	0.61	1.61		04/27/20 20:40	67-63-0	
Propylene	**<0.16**	ug/m3	0.56	0.16	1.61		04/27/20 20:40	115-07-1	
Styrene	**<0.69**	ug/m3	1.4	0.69	1.61		04/27/20 20:40	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Sample: SS-4 (1225-1227 12th Ave) **Lab ID: 10515889003** Collected: 04/23/20 10:48 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,1,2,2-Tetrachloroethane	**<0.50**	ug/m3	1.1	0.50	1.61		04/27/20 20:40	79-34-5	
Tetrachloroethene	**0.76J**	ug/m3	1.1	0.43	1.61		04/27/20 20:40	127-18-4	
Tetrahydrofuran	**<0.29**	ug/m3	0.97	0.29	1.61		04/27/20 20:40	109-99-9	
Toluene	**3.5**	ug/m3	1.2	0.28	1.61		04/27/20 20:40	108-88-3	
1,2,4-Trichlorobenzene	**<5.3**	ug/m3	12.1	5.3	1.61		04/27/20 20:40	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/m3	1.8	0.24	1.61		04/27/20 20:40	71-55-6	
1,1,2-Trichloroethane	**<0.32**	ug/m3	0.89	0.32	1.61		04/27/20 20:40	79-00-5	
Trichloroethene	**7.4**	ug/m3	0.88	0.36	1.61		04/27/20 20:40	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	1.8	0.37	1.61		04/27/20 20:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.60J**	ug/m3	2.5	0.41	1.61		04/27/20 20:40	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.6	0.50	1.61		04/27/20 20:40	95-63-6	
1,3,5-Trimethylbenzene	**0.84J**	ug/m3	1.6	0.40	1.61		04/27/20 20:40	108-67-8	
Vinyl acetate	**<0.28**	ug/m3	1.2	0.28	1.61		04/27/20 20:40	108-05-4	
Vinyl chloride	**<0.15**	ug/m3	0.42	0.15	1.61		04/27/20 20:40	75-01-4	
m&p-Xylene	**4.9**	ug/m3	2.8	0.54	1.61		04/27/20 20:40	179601-23-1	
o-Xylene	**1.5**	ug/m3	1.4	0.24	1.61		04/27/20 20:40	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

QC Batch: 672172
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10515889001, 10515889002, 10515889003

METHOD BLANK: 3600619 Matrix: Air
Associated Lab Samples: 10515889001, 10515889002, 10515889003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	1.1	04/27/20 10:54	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	04/27/20 10:54	
1,1,2-Trichloroethane	ug/m3	<0.20	0.56	04/27/20 10:54	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.26	1.6	04/27/20 10:54	
1,1-Dichloroethane	ug/m3	<0.11	0.82	04/27/20 10:54	
1,1-Dichloroethene	ug/m3	<0.12	0.81	04/27/20 10:54	
1,2,4-Trichlorobenzene	ug/m3	<3.3	7.5	04/27/20 10:54	
1,2,4-Trimethylbenzene	ug/m3	<0.31	1.0	04/27/20 10:54	
1,2-Dibromoethane (EDB)	ug/m3	<0.28	0.78	04/27/20 10:54	
1,2-Dichlorobenzene	ug/m3	<0.32	1.2	04/27/20 10:54	
1,2-Dichloroethane	ug/m3	<0.17	0.41	04/27/20 10:54	
1,2-Dichloropropane	ug/m3	<0.20	0.94	04/27/20 10:54	
1,3,5-Trimethylbenzene	ug/m3	<0.25	1.0	04/27/20 10:54	
1,3-Butadiene	ug/m3	<0.10	0.45	04/27/20 10:54	
1,3-Dichlorobenzene	ug/m3	<0.48	1.2	04/27/20 10:54	
1,4-Dichlorobenzene	ug/m3	<0.74	3.1	04/27/20 10:54	
2-Butanone (MEK)	ug/m3	<0.56	3.0	04/27/20 10:54	
2-Hexanone	ug/m3	<0.34	4.2	04/27/20 10:54	
2-Propanol	ug/m3	<0.38	2.5	04/27/20 10:54	
4-Ethyltoluene	ug/m3	<0.43	2.5	04/27/20 10:54	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.18	4.2	04/27/20 10:54	
Acetone	ug/m3	<1.3	6.0	04/27/20 10:54	
Benzene	ug/m3	<0.13	0.32	04/27/20 10:54	
Benzyl chloride	ug/m3	<0.47	2.6	04/27/20 10:54	
Bromodichloromethane	ug/m3	<0.18	1.4	04/27/20 10:54	
Bromoform	ug/m3	<1.8	5.2	04/27/20 10:54	
Bromomethane	ug/m3	<0.15	0.79	04/27/20 10:54	
Carbon disulfide	ug/m3	<0.11	0.63	04/27/20 10:54	
Carbon tetrachloride	ug/m3	<0.26	1.3	04/27/20 10:54	
Chlorobenzene	ug/m3	<0.13	0.94	04/27/20 10:54	
Chloroethane	ug/m3	<0.13	0.54	04/27/20 10:54	
Chloroform	ug/m3	<0.13	0.50	04/27/20 10:54	
Chloromethane	ug/m3	<0.066	0.42	04/27/20 10:54	
cis-1,2-Dichloroethene	ug/m3	<0.12	0.81	04/27/20 10:54	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	04/27/20 10:54	
Cyclohexane	ug/m3	<0.15	1.8	04/27/20 10:54	
Dibromochloromethane	ug/m3	<0.40	1.7	04/27/20 10:54	
Dichlorodifluoromethane	ug/m3	<0.17	1.0	04/27/20 10:54	
Dichlorotetrafluoroethane	ug/m3	<0.16	1.4	04/27/20 10:54	
Ethanol	ug/m3	<0.94	1.9	04/27/20 10:54	

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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

METHOD BLANK: 3600619 Matrix: Air
Associated Lab Samples: 10515889001, 10515889002, 10515889003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.18	0.73	04/27/20 10:54	
Ethylbenzene	ug/m3	<0.14	0.88	04/27/20 10:54	
Hexachloro-1,3-butadiene	ug/m3	<1.2	5.4	04/27/20 10:54	
m&p-Xylene	ug/m3	<0.34	1.8	04/27/20 10:54	
Methyl-tert-butyl ether	ug/m3	<0.10	3.7	04/27/20 10:54	
Methylene Chloride	ug/m3	<0.93	3.5	04/27/20 10:54	
n-Heptane	ug/m3	<0.20	0.83	04/27/20 10:54	
n-Hexane	ug/m3	<0.20	0.72	04/27/20 10:54	
Naphthalene	ug/m3	<1.3	2.7	04/27/20 10:54	
o-Xylene	ug/m3	<0.15	0.88	04/27/20 10:54	
Propylene	ug/m3	<0.098	0.35	04/27/20 10:54	
Styrene	ug/m3	<0.43	0.87	04/27/20 10:54	
Tetrachloroethene	ug/m3	<0.27	0.69	04/27/20 10:54	
Tetrahydrofuran	ug/m3	<0.18	0.60	04/27/20 10:54	
Toluene	ug/m3	<0.17	0.77	04/27/20 10:54	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	04/27/20 10:54	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	04/27/20 10:54	
Trichloroethene	ug/m3	<0.22	0.55	04/27/20 10:54	
Trichlorofluoromethane	ug/m3	<0.23	1.1	04/27/20 10:54	
Vinyl acetate	ug/m3	<0.18	0.72	04/27/20 10:54	
Vinyl chloride	ug/m3	<0.096	0.26	04/27/20 10:54	

LABORATORY CONTROL SAMPLE: 3600620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	60.9	107	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	84.5	118	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	61.4	107	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	83.3	104	70-130	
1,1-Dichloroethane	ug/m3	42.7	49.3	115	70-130	
1,1-Dichloroethene	ug/m3	41.4	43.9	106	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	147	94	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	59.9	116	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	92.6	115	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	68.9	109	70-136	
1,2-Dichloroethane	ug/m3	42.4	47.1	111	70-130	
1,2-Dichloropropane	ug/m3	48.6	54.5	112	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	67.0	130	70-136	
1,3-Butadiene	ug/m3	23.3	24.9	107	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	73.5	116	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	73.7	116	70-145	
2-Butanone (MEK)	ug/m3	31.4	35.5	113	61-130	
2-Hexanone	ug/m3	42.8	55.5	130	70-138	
2-Propanol	ug/m3	119	140	118	70-136	

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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

LABORATORY CONTROL SAMPLE: 3600620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.4	68.1	130	70-142	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	55.1	126	70-134	
Acetone	ug/m3	126	156	123	59-137	
Benzene	ug/m3	33.5	34.7	103	70-133	
Benzyl chloride	ug/m3	55.1	57.1	104	70-139	
Bromodichloromethane	ug/m3	71.5	81.3	114	70-130	
Bromoform	ug/m3	110	122	111	60-140	
Bromomethane	ug/m3	41.3	44.5	108	70-131	
Carbon disulfide	ug/m3	33.3	38.0	114	70-130	
Carbon tetrachloride	ug/m3	66.2	77.7	117	70-133	
Chlorobenzene	ug/m3	48.3	52.3	108	70-131	
Chloroethane	ug/m3	28.1	35.2	125	70-141	
Chloroform	ug/m3	51.1	59.5	117	70-130	
Chloromethane	ug/m3	21.9	23.7	108	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	43.8	105	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	59.6	125	70-138	
Cyclohexane	ug/m3	36.7	42.0	114	70-133	
Dibromochloromethane	ug/m3	90.7	103	113	70-139	
Dichlorodifluoromethane	ug/m3	51.6	54.4	105	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	78.3	108	65-133	
Ethanol	ug/m3	103	105	103	65-135	
Ethyl acetate	ug/m3	38.6	41.3	107	70-135	
Ethylbenzene	ug/m3	45.6	56.0	123	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	116	104	70-134	
m&p-Xylene	ug/m3	91.2	113	124	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	41.1	107	70-131	
Methylene Chloride	ug/m3	182	213	117	69-130	
n-Heptane	ug/m3	43.6	44.0	101	70-130	
n-Hexane	ug/m3	37.6	38.5	102	70-131	
Naphthalene	ug/m3	57.7	53.1	92	63-130	
o-Xylene	ug/m3	45.5	54.0	119	70-135	
Propylene	ug/m3	18.2	18.9	104	63-139	
Styrene	ug/m3	44.9	50.9	113	70-143	
Tetrachloroethene	ug/m3	71	71.8	101	70-136	
Tetrahydrofuran	ug/m3	31.5	35.6	113	70-137	
Toluene	ug/m3	39.5	47.2	119	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	43.5	103	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	53.2	112	70-139	
Trichloroethene	ug/m3	56.3	56.7	101	70-132	
Trichlorofluoromethane	ug/m3	59.7	63.6	107	65-136	
Vinyl acetate	ug/m3	34.5	42.5	123	66-140	
Vinyl chloride	ug/m3	26.7	31.9	120	68-141	

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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

SAMPLE DUPLICATE: 3601165

Parameter	Units	10515889001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	<0.31		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.62	<0.62		25	
1,1,2-Trichloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.55J	<0.52		25	
1,1-Dichloroethane	ug/m3	<0.23	<0.23		25	
1,1-Dichloroethene	ug/m3	<0.24	<0.24		25	
1,2,4-Trichlorobenzene	ug/m3	<6.7	<6.7		25	
1,2,4-Trimethylbenzene	ug/m3	<0.63	<0.63		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.55	<0.55		25	
1,2-Dichlorobenzene	ug/m3	<0.64	<0.64		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.40	<0.40		25	
1,3,5-Trimethylbenzene	ug/m3	<0.50	<0.50		25	
1,3-Butadiene	ug/m3	<0.21	<0.21		25	
1,3-Dichlorobenzene	ug/m3	<0.96	<0.96		25	
1,4-Dichlorobenzene	ug/m3	<1.5	<1.5		25	
2-Butanone (MEK)	ug/m3	<1.1	<1.1		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	<0.76	<0.76		25	
4-Ethyltoluene	ug/m3	<0.86	<0.86		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	<2.6	<2.6		25	
Benzene	ug/m3	0.42J	0.38J		25	
Benzyl chloride	ug/m3	<0.95	<0.95		25	
Bromodichloromethane	ug/m3	<0.35	<0.35		25	
Bromoform	ug/m3	<3.6	<3.6		25	
Bromomethane	ug/m3	<0.29	<0.29		25	
Carbon disulfide	ug/m3	<0.22	<0.22		25	
Carbon tetrachloride	ug/m3	<0.51	<0.51		25	
Chlorobenzene	ug/m3	<0.27	<0.27		25	
Chloroethane	ug/m3	<0.25	<0.25		25	
Chloroform	ug/m3	<0.27	<0.27		25	
Chloromethane	ug/m3	0.98	1.1	11	25	
cis-1,2-Dichloroethene	ug/m3	<0.23	<0.23		25	
cis-1,3-Dichloropropene	ug/m3	<0.75	<0.75		25	
Cyclohexane	ug/m3	0.76J	0.72J		25	
Dibromochloromethane	ug/m3	<0.81	<0.81		25	
Dichlorodifluoromethane	ug/m3	2.7	2.6	4	25	
Dichlorotetrafluoroethane	ug/m3	<0.32	<0.32		25	
Ethanol	ug/m3	18.6	21.1	13	25	
Ethyl acetate	ug/m3	<0.37	<0.37		25	
Ethylbenzene	ug/m3	<0.28	<0.28		25	
Hexachloro-1,3-butadiene	ug/m3	<2.5	<2.5		25	
m&p-Xylene	ug/m3	<0.68	<0.68		25	
Methyl-tert-butyl ether	ug/m3	<0.20	<0.20		25	
Methylene Chloride	ug/m3	<1.9	<1.9		25	
n-Heptane	ug/m3	<0.40	<0.40		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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

SAMPLE DUPLICATE: 3601165

Parameter	Units	10515889001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.55J	<0.40		25	
Naphthalene	ug/m3	<2.6	<2.6		25	
o-Xylene	ug/m3	<0.30	<0.30		25	
Propylene	ug/m3	0.92	<0.20		25	
Styrene	ug/m3	<0.86	<0.86		25	
Tetrachloroethene	ug/m3	<0.54	<0.54		25	
Tetrahydrofuran	ug/m3	<0.37	<0.37		25	
Toluene	ug/m3	0.44J	0.42J		25	
trans-1,2-Dichloroethene	ug/m3	<0.34	<0.34		25	
trans-1,3-Dichloropropene	ug/m3	<0.53	<0.53		25	
Trichloroethene	ug/m3	<0.44	<0.44		25	
Trichlorofluoromethane	ug/m3	1.2J	1.5J		25	
Vinyl acetate	ug/m3	<0.36	<0.36		25	
Vinyl chloride	ug/m3	<0.19	<0.19		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

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.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10515889001	**OA-2 (1225-1227 12th Ave)**	TO-15	672172		
10515889002	**IA-2 (1225-1227 12th Ave)**	TO-15	672172		
10515889003	**SS-4 (1225-1227 12th Ave)**	TO-15	672172		

WO#: 10515889

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTOD

The Chain-of-Custody is a LEGAL DOCUMENT. All r

10515889

48133

Page: 1 of 1

Section A Required Client Information:

Company:	AECOM
Address:	1555 N RiverCenter Dr Suite 214 Milwaukee WI 5321
Email To:	tory.schultz@aecom.com
Phone:	414 944 6168
Fax:	
Requested Due Date/TAT:	STD

Section B Required Project Information:

Report To:	Lanette Altenbach
Copy To:	lanette.altenbach@aecom.com
Purchase Order No.:	n/a
Project Name:	Grafton VI Former Quality Cleaners
Project Number:	60602996

Section C Invoice Information:

Attention:	USAPIMAGING@aecom.com
Company Name:	Same
Address:	Same
Pace Quote Reference:	
Pace Project Manager/Sales Rep.	Carolynne Trout
Pace Profile #:	~~40398~~ CM 04.23.20

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other___

Location of Sampling by State: WI

Reporting Units: ug/m³ ✓ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

Section D Required Client Information

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Method: PM10, 3C - Fixed Gas (%), TO-3 BTEX, TO-3M (Methane), TO-14, TO-15 Full List VOCs, TO-15 Short List BTEX, TO-15 Short List Chlorinated, TO-15 Short List (other)

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	PM10	3C	TO-3 BTEX	TO-3M	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	OA-2 (1225-1227 12th Ave)	6LC	0.0	04.22.20	1903	04.23.20	1012	30	11	1234	1458						X				001
2	IA-2 (1225-1227 12th Ave)	6LC	0.1	04.22.20	1005	04.23.20	1007	28	3	/954	1377						X				002
3	~~SS-5 (1225-1227 12th Ave)~~	~~6LC~~	~~0.1~~	~~04.23.20~~	~~1017~~	~~04.23.20~~	~~1045~~	~~29~~	~~10~~	~~3400~~	~~2814~~						~~X~~				KEN 04.23.20
4	SS-4 (1225-1227 12th Ave)	6LC	0.1	04.23.20	1014	04.23.20	1048	30	6	/688	0639						X				003
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

KEN 04.23.20

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] AECOM	04.23.20	1500	[signature] Pace	4/24/20	1150

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
~	Y/N (N circled)	Y/N (N circled)	Y/N (Y circled)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Nielsen

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 04.23.20

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt **Client Name:** Aecom **Project #:** **WO#: 10515889**

PM: CT1 **Due Date: 05/01/20**

CLIENT: AECOM-WI

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☐

Tracking Number: 1723 2541 9893

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): — **Corrected Temp (°C):** — **Thermometer Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** RLG 4/24/20

Type of ice Received ☐ Blue ☐ Wet ☒ None

		Comments:
Chain of Custody Present?	☒ Yes ☐ No	1.
Chain of Custody Filled Out?	☒ Yes ☐ No	2.
Chain of Custody Relinquished?	☒ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	6.
Rush Turn Around Time Requested?	☐ Yes ☒ No	7.
Sufficient Volume?	☒ Yes ☐ No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒ Yes ☐ No ☒ Yes ☐ No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes ☐ No	10.
Media: Air Can Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes ☐ No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes ☐ 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
OA-2	1234	1458	-10	+5					
IA-2	954	1377	-2	"					
SS-4	688	639	-5	"					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** _____

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 08, 2020

Tory Schultz
AECOM
1555 North Rivercenter Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Dear Tory Schultz:

Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Leo B. Linnemanstons, P.G., AECOM, Inc
Joel Mackinney, AECOM
Lisa Smith, AECOM, Inc.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40206683001	**TB20200422**	Water	04/22/20 11:00	04/23/20 09:00
40206683002	**FB20200422**	Water	04/22/20 11:10	04/23/20 09:00
40206683003	**MW-1-042220**	Water	04/22/20 11:20	04/23/20 09:00
40206683004	**MW-2-042220**	Water	04/22/20 11:30	04/23/20 09:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40206683001	**TB20200422**	EPA 8260	HNW	45	PASI-G
40206683002	**FB20200422**	EPA 8260	HNW	45	PASI-G
40206683003	**MW-1-042220**	EPA 8260	HNW	45	PASI-G
40206683004	**MW-2-042220**	EPA 8260	HNW	45	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40206683002	**FB20200422**					
EPA 8260	Acetone	3.4J	ug/L	20.0	04/27/20 13:53	
EPA 8260	Chloromethane	10.7	ug/L	7.3	04/27/20 13:53	
40206683003	**MW-1-042220**					
EPA 8260	Tetrachloroethene	7.7	ug/L	1.1	04/27/20 23:42	
40206683004	**MW-2-042220**					
EPA 8260	Tetrachloroethene	2.4	ug/L	1.1	04/28/20 00:03	

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Sample: TB20200422 **Lab ID: 40206683001** Collected: 04/22/20 11:00 Received: 04/23/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/27/20 09:36	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/27/20 09:36	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/27/20 09:36	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/27/20 09:36	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/27/20 09:36	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/27/20 09:36	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/27/20 09:36	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/27/20 09:36	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/27/20 09:36	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/27/20 09:36	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/27/20 09:36	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/27/20 09:36	78-93-3	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/27/20 09:36	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/27/20 09:36	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/27/20 09:36	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/27/20 09:36	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/27/20 09:36	74-83-9	
Carbon disulfide	**<0.45**	ug/L	1.5	0.45	1		04/27/20 09:36	75-15-0	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/27/20 09:36	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/27/20 09:36	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/27/20 09:36	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/27/20 09:36	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/27/20 09:36	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/27/20 09:36	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/27/20 09:36	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/27/20 09:36	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/27/20 09:36	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/27/20 09:36	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/27/20 09:36	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/27/20 09:36	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/27/20 09:36	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/27/20 09:36	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/27/20 09:36	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/27/20 09:36	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/27/20 09:36	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/27/20 09:36	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/27/20 09:36	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/27/20 09:36	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/27/20 09:36	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/27/20 09:36	10061-01-5	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/27/20 09:36	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/27/20 09:36	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/27/20 09:36	460-00-4	HS
Dibromofluoromethane (S)	97	%	70-130		1		04/27/20 09:36	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Sample: TB20200422 **Lab ID: 40206683001** Collected: 04/22/20 11:00 Received: 04/23/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		04/27/20 09:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Sample: FB20200422 **Lab ID: 40206683002** Collected: 04/22/20 11:10 Received: 04/23/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/27/20 13:53	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/27/20 13:53	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/27/20 13:53	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/27/20 13:53	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/27/20 13:53	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/27/20 13:53	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/27/20 13:53	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/27/20 13:53	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/27/20 13:53	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/27/20 13:53	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/27/20 13:53	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/27/20 13:53	78-93-3	
Acetone	**3.4J**	ug/L	20.0	2.7	1		04/27/20 13:53	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/27/20 13:53	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/27/20 13:53	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/27/20 13:53	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/27/20 13:53	74-83-9	
Carbon disulfide	**<0.45**	ug/L	1.5	0.45	1		04/27/20 13:53	75-15-0	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/27/20 13:53	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/27/20 13:53	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/27/20 13:53	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/27/20 13:53	67-66-3	
Chloromethane	**10.7**	ug/L	7.3	2.2	1		04/27/20 13:53	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/27/20 13:53	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/27/20 13:53	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/27/20 13:53	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/27/20 13:53	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/27/20 13:53	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/27/20 13:53	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/27/20 13:53	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/27/20 13:53	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/27/20 13:53	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/27/20 13:53	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/27/20 13:53	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/27/20 13:53	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/27/20 13:53	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/27/20 13:53	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/27/20 13:53	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/27/20 13:53	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/27/20 13:53	10061-01-5	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/27/20 13:53	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/27/20 13:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		04/27/20 13:53	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		04/27/20 13:53	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Sample: FB20200422 **Lab ID: 40206683002** Collected: 04/22/20 11:10 Received: 04/23/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		04/27/20 13:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Sample: MW-1-042220 **Lab ID: 40206683003** Collected: 04/22/20 11:20 Received: 04/23/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/27/20 23:42	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/27/20 23:42	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/27/20 23:42	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/27/20 23:42	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/27/20 23:42	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/27/20 23:42	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/27/20 23:42	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/27/20 23:42	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/27/20 23:42	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/27/20 23:42	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/27/20 23:42	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/27/20 23:42	78-93-3	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/27/20 23:42	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/27/20 23:42	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/27/20 23:42	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/27/20 23:42	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/27/20 23:42	74-83-9	
Carbon disulfide	**<0.45**	ug/L	1.5	0.45	1		04/27/20 23:42	75-15-0	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/27/20 23:42	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/27/20 23:42	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/27/20 23:42	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/27/20 23:42	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/27/20 23:42	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/27/20 23:42	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/27/20 23:42	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/27/20 23:42	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/27/20 23:42	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/27/20 23:42	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/27/20 23:42	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/27/20 23:42	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/27/20 23:42	100-42-5	
Tetrachloroethene	**7.7**	ug/L	1.1	0.33	1		04/27/20 23:42	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/27/20 23:42	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/27/20 23:42	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/27/20 23:42	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/27/20 23:42	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/27/20 23:42	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/27/20 23:42	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/27/20 23:42	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/27/20 23:42	10061-01-5	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/27/20 23:42	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/27/20 23:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/27/20 23:42	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		04/27/20 23:42	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Sample: MW-1-042220 **Lab ID: 40206683003** Collected: 04/22/20 11:20 Received: 04/23/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		04/27/20 23:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Sample: MW-2-042220 **Lab ID: 40206683004** Collected: 04/22/20 11:30 Received: 04/23/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/28/20 00:03	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/28/20 00:03	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/28/20 00:03	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/28/20 00:03	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/28/20 00:03	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/28/20 00:03	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/28/20 00:03	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/28/20 00:03	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/28/20 00:03	78-87-5	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/28/20 00:03	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/28/20 00:03	106-46-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/28/20 00:03	78-93-3	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/28/20 00:03	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/28/20 00:03	71-43-2	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/28/20 00:03	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/28/20 00:03	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/28/20 00:03	74-83-9	
Carbon disulfide	**<0.45**	ug/L	1.5	0.45	1		04/28/20 00:03	75-15-0	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/28/20 00:03	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/28/20 00:03	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/28/20 00:03	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/28/20 00:03	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/28/20 00:03	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/28/20 00:03	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/28/20 00:03	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/28/20 00:03	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/28/20 00:03	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/28/20 00:03	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/28/20 00:03	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/28/20 00:03	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/28/20 00:03	100-42-5	
Tetrachloroethene	**2.4**	ug/L	1.1	0.33	1		04/28/20 00:03	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/28/20 00:03	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/28/20 00:03	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/28/20 00:03	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/28/20 00:03	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/28/20 00:03	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/28/20 00:03	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/28/20 00:03	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/28/20 00:03	10061-01-5	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/28/20 00:03	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/28/20 00:03	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/28/20 00:03	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		04/28/20 00:03	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Sample: MW-2-042220 **Lab ID: 40206683004** Collected: 04/22/20 11:30 Received: 04/23/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		04/28/20 00:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

QC Batch: 353329
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206683001, 40206683002, 40206683003, 40206683004

METHOD BLANK: 2045484 Matrix: Water
Associated Lab Samples: 40206683001, 40206683002, 40206683003, 40206683004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/27/20 08:10	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/27/20 08:10	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/27/20 08:10	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/27/20 08:10	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/27/20 08:10	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/27/20 08:10	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/27/20 08:10	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/27/20 08:10	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/27/20 08:10	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/27/20 08:10	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/27/20 08:10	
2-Butanone (MEK)	ug/L	<2.9	20.0	04/27/20 08:10	
Acetone	ug/L	<2.7	20.0	04/27/20 08:10	
Benzene	ug/L	<0.25	1.0	04/27/20 08:10	
Bromodichloromethane	ug/L	<0.36	1.2	04/27/20 08:10	
Bromoform	ug/L	<4.0	13.2	04/27/20 08:10	
Bromomethane	ug/L	<0.97	5.0	04/27/20 08:10	
Carbon disulfide	ug/L	<0.45	1.5	04/27/20 08:10	
Carbon tetrachloride	ug/L	<1.1	3.6	04/27/20 08:10	
Chlorobenzene	ug/L	<0.71	2.4	04/27/20 08:10	
Chloroethane	ug/L	<1.3	5.0	04/27/20 08:10	
Chloroform	ug/L	<1.3	5.0	04/27/20 08:10	
Chloromethane	ug/L	<2.2	7.3	04/27/20 08:10	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/27/20 08:10	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/27/20 08:10	
Dibromochloromethane	ug/L	<2.6	8.7	04/27/20 08:10	
Dibromomethane	ug/L	<0.94	3.1	04/27/20 08:10	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/27/20 08:10	
Ethylbenzene	ug/L	<0.32	1.1	04/27/20 08:10	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/27/20 08:10	
Methylene Chloride	ug/L	<0.58	5.0	04/27/20 08:10	
Naphthalene	ug/L	<1.2	5.0	04/27/20 08:10	
Styrene	ug/L	<3.0	10.0	04/27/20 08:10	
Tetrachloroethene	ug/L	<0.33	1.1	04/27/20 08:10	
Tetrahydrofuran	ug/L	<2.3	20.0	04/27/20 08:10	
Toluene	ug/L	<0.27	0.90	04/27/20 08:10	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	04/27/20 08:10	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/27/20 08:10	
Trichloroethene	ug/L	<0.26	1.0	04/27/20 08:10	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/27/20 08:10	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

METHOD BLANK: 2045484 Matrix: Water
Associated Lab Samples: 40206683001, 40206683002, 40206683003, 40206683004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	04/27/20 08:10	
Xylene (Total)	ug/L	<1.5	3.0	04/27/20 08:10	
4-Bromofluorobenzene (S)	%	93	70-130	04/27/20 08:10	
Dibromofluoromethane (S)	%	99	70-130	04/27/20 08:10	
Toluene-d8 (S)	%	102	70-130	04/27/20 08:10	

LABORATORY CONTROL SAMPLE: 2045485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1,2-Trichloroethane	ug/L	50	50.0	100	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	69-163	
1,1-Dichloroethene	ug/L	50	53.1	106	77-123	
1,2-Dibromo-3-chloropropane	ug/L	50	48.4	97	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dichloroethane	ug/L	50	54.5	109	78-142	
1,2-Dichloropropane	ug/L	50	49.1	98	86-134	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
Benzene	ug/L	50	52.1	104	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	43.7	87	70-130	
Bromomethane	ug/L	50	41.3	83	39-129	
Carbon disulfide	ug/L	50	55.1	110	67-138	
Carbon tetrachloride	ug/L	50	47.1	94	70-132	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroethane	ug/L	50	49.2	98	66-140	
Chloroform	ug/L	50	47.3	95	75-132	
Chloromethane	ug/L	50	44.2	88	32-143	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.0	102	70-130	
Dibromochloromethane	ug/L	50	49.2	98	70-130	
Dichlorodifluoromethane	ug/L	50	39.7	79	10-141	
Ethylbenzene	ug/L	50	53.6	107	80-120	
Methyl-tert-butyl ether	ug/L	50	54.2	108	61-129	
Methylene Chloride	ug/L	50	52.9	106	70-130	
Styrene	ug/L	50	54.3	109	70-130	
Tetrachloroethene	ug/L	50	47.9	96	70-130	
Toluene	ug/L	50	52.0	104	80-120	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.0	104	69-130	
Trichloroethene	ug/L	50	48.8	98	70-130	
Trichlorofluoromethane	ug/L	50	54.5	109	75-145	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

LABORATORY CONTROL SAMPLE: 2045485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	49.5	99	51-140	
Xylene (Total)	ug/L	150	162	108	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2045539 2045540

Parameter	Units	40206643008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	50.7	53.4	101	107	70-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50.2	52.0	100	104	70-137	4	20	
1,1-Dichloroethane	ug/L	1.8	50	50	56.7	59.9	110	116	69-163	6	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	51.3	55.6	103	111	77-129	8	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	46.9	49.6	94	99	60-130	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.0	50.0	96	100	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.9	54.0	104	108	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	54.7	58.7	109	117	78-145	7	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	52.3	53.5	105	107	86-135	2	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.1	53.3	104	107	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.9	53.3	102	107	70-130	5	20	
Benzene	ug/L	1.2	50	50	54.2	57.0	106	112	70-136	5	20	
Bromodichloromethane	ug/L	<0.36	50	50	49.9	51.7	100	103	70-130	3	20	
Bromoform	ug/L	<4.0	50	50	43.5	45.9	87	92	69-130	5	20	
Bromomethane	ug/L	<0.97	50	50	38.2	39.5	76	79	39-138	3	20	
Carbon disulfide	ug/L	<0.45	50	50	53.4	55.8	107	112	63-141	4	20	
Carbon tetrachloride	ug/L	<1.1	50	50	48.0	51.8	96	104	70-142	8	20	
Chlorobenzene	ug/L	<0.71	50	50	53.0	54.3	106	109	70-130	2	20	
Chloroethane	ug/L	<1.3	50	50	45.4	47.3	91	95	61-149	4	20	
Chloroform	ug/L	<1.3	50	50	48.5	51.2	97	102	75-133	5	20	
Chloromethane	ug/L	<2.2	50	50	33.9	35.6	68	71	32-143	5	20	
cis-1,2-Dichloroethene	ug/L	0.51J	50	50	48.3	51.4	96	102	70-130	6	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	53.6	56.3	107	113	70-130	5	20	
Dibromochloromethane	ug/L	<2.6	50	50	49.3	50.9	99	102	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	23.8	24.3	48	49	10-141	2	20	
Ethylbenzene	ug/L	<0.32	50	50	55.8	57.3	112	115	80-120	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	53.7	56.7	107	113	61-136	6	20	
Methylene Chloride	ug/L	<0.58	50	50	53.3	56.5	107	113	68-137	6	20	
Styrene	ug/L	<3.0	50	50	55.7	58.2	111	116	70-130	4	20	
Tetrachloroethene	ug/L	<0.33	50	50	49.9	52.5	100	105	70-130	5	20	
Toluene	ug/L	<0.27	50	50	52.9	55.4	106	111	80-120	5	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	54.4	57.1	109	114	70-130	5	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	52.5	55.2	105	110	69-130	5	20	
Trichloroethene	ug/L	<0.26	50	50	52.5	54.5	105	109	70-130	4	20	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2045539 2045540

Parameter	Units	40206643008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	ug/L	<0.21	50	50	49.8	54.2	100	108	74-157	8	20	
Vinyl chloride	ug/L	<0.17	50	50	42.0	44.1	84	88	51-140	5	20	
Xylene (Total)	ug/L	<1.5	150	150	170	177	113	118	70-130	4	20	
4-Bromofluorobenzene (S)	%						105	106	70-130			
Dibromofluoromethane (S)	%						102	102	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

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.

WORKORDER QUALIFIERS

WO: 40206683

[1] Revised report per client request to change project name. No changes were made to analytical data. 5/8/20 CDH

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60602996 GRAFTON VI
Pace Project No.: 40206683

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40206683001	**TB20200422**	EPA 8260	353329		
40206683002	**FB20200422**	EPA 8260	353329		
40206683003	**MW-1-042220**	EPA 8260	353329		
40206683004	**MW-2-042220**	EPA 8260	353329		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Milwaukee
Project Contact:	Tory Schultz
Phone:	414.944.6168
Project Number:	60485031.7.2 1*
Project Name:	Grafton VI; Former Quality Cleaners
Project State:	WI
Sampled By (Print):	Keith Nielsen
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	40206683
Mail To Contact:	tory.schultz@AECOM.com
Mail To Company:	AECOM
Mail To Address:	1555 N River Center Drive Suite 214 Milwaukee, WI 53212
Invoice To Contact:	USAPTMAGING@AECOM.com
Invoice To Company:	same
Invoice To Address:	same
Invoice To Phone:	same

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Y/N	Pick Letter	VOC 8260	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	TB2020 042220	04.22.20	1100	W	N	B	3	Trip Blank		
002	FB 2020 04 22		1110	W			3	Field Blank		
003	MW-1-042220		1120	GW			3	MW-1; High Turbidity		
004	MW-2-042220		1130	GW			3	MW-2; High Turbidity		

1* Project# 60602996 per Tory S. 5/8/20 CDH

KEW 04.22.20

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
AECOM	04.22.20 @ 1630		
CS Logistics	4/23/20 0900	Susan Myles	4/23/20 0900

PACE Project No. 40206683

Receipt Temp = ROT °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: AECOM Project # 40206683

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☑N/A

Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	3										2						2.5 / 5 / 10
002																	3																2.5 / 5 / 10
003																	3																2.5 / 5 / 10
004																	3																2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																											4/23/20 8W						2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm): ☑Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40206683

40206683

Client Name: AECOM

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #: 2017042220

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 4-23-20 /Initials: SW

Labeled By Initials: MY 4/23/20 SW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1. +CC
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 430		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi