Feeney, John M - DNR

From: Manthey, Mark <Mark.Manthey@tetratech.com>
Sent: Monday, November 01, 2021 12:18 PM
To: Feeney, John M - DNR
Cc: Shambeau, Jay; Piotrowicz, Mark; Nolan, Julieann
Subject: Vapor Intrusion Test Results for 208 South Street property, City of West Bend Former Gehl Co. TIF District #12 Site, BRRTS #: 02-67-554753
Attachments: 208 South St Hauser VI Results Letter 2021-11.pdf; SG_IA_Results_2021-04.pdf; FieldForms_208SouthSt_10-14-21.pdf; BuildingSurvey_208SouthSt_10-12-21.pdf; 10583427_frc.pdf; Figure 1 Site Figure and Sample Locations.pdf

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John,

The test results for the indoor air and sub-slab soil gas samples collected from the house at 208 South Street in West Bend were received October 27. Attached is the Pace Analytical Services analytical report, a table summarizing the test results, copies of the field data sheets and building survey form, and a copy of the letter to the property owner discussing the test results. I also included a site figure showing the location of the 208 South Street property.

No WDNR residential property vapor risk screening levels (VRSLs) were exceeded in the sub-slab soil gas sample (SG-208 South sample ID) and no WDNR residential property vapor action levels (VALs) were exceeded in the indoor air sample collected from the basement (IA-B-208 South sample ID). The J-flagged concentration of 1,2-Dichloroethane in the ground floor indoor air sample (IA-G-208 South sample ID) equals its WDNR residential Vapor Action Level (VAL) of 1.1 ug/m3 and the reported 2-Propanol (Isopropyl Alcohol) in the ground floor indoor air sample exceeds its VAL of 210 ug/m3. The test results for the sub-soil gas sample indicate the soil gas is not the source of the 1,2-Dichloroethane and 2-Propanol detected in the ground floor indoor air sample, therefore vapor mitigation is not required.

I intend to send the attached letter to the property owner, Mr. Jonathan Hauser, on or before this Friday, November 5. If you have time please review the letter before this Friday so I can incorporate any edits you may have to the letter. Also, confirm I have your contact information and the contact information for the WDHS correct in the letter as follows: John Feeney, 262-416-8643; Brita Kilburg-Gasnyat, Ph.D., 608-266-2817.

Thanks.

Mark A. Manthey, P.G. | Associate Hydrogeologist
Direct **(262) 207-3458** | Office **(262) 792-1282** | Mobile **(262) 385-7331** | Fax **(262) 792-1310** | mark.manthey@tetratech.com

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TETRA TECH

November 5, 2021

Mr. Jonathan Hauser
208 South Street
West Bend, WI 53095

SUBJECT: Vapor Intrusion Assessment Results, 208 South Street Property

Dear Mr. Hauser,

Thank you for your recent participation in the vapor intrusion assessment of your 208 South Street property as part of the City of West Bend's remedial action of groundwater contamination of chlorinated volatile organic compounds (VOCs) on and in the vicinity of the former Gehl Co. West Plant property located on the west side of S. Forest Avenue (WDNR BRRTS #: 02-67-554753). The attached laboratory report from Pace Analytical Services, LLC contains the test results for two indoor air samples collected from the house on your property, the background outdoor air sample collected in the back yard of your property, and the sub-slab soil gas sample collected from the sub-slab soil gas probe installed through the basement floor of the home on October 13th. The indoor air sample collected from the basement has the Sample ID of IA-B-208 South, the indoor air sample collected from the ground floor of the house has the Sample ID of IA-G-208 South, and the sub-slab soil gas sample ID is SG-208 South. The background outdoor air sample has the Sample ID of OA-208 South. The indoor air, background outdoor air, and sub-slab soil gas test results are provided in units of micrograms per cubic meter (ug/m^3). The name of the parameters that were tested are listed in the 'Parameters' column of the reports and the test results are listed in the 'Results' column of the reports. The LOQ column of the reports list the limit of quantitation concentration for each parameter, which is the minimum concentration that can be quantified with certainty by the laboratory. The LOD column of the reports list the limit of detection for each parameter, which is the minimum concentration of a parameter that must be present before the laboratory can detect it. The less than (<) symbol in front of a result indicates the parameter was not detected in the sample above the listed LOD.

Test Results

Several VOCs were detected in the sub-slab soil gas sample (SG-208 South Sample ID) at concentrations ranging from 0.35 ug/m^3 to 52.8 ug/m^3. None of the reported VOC detections in the sub-slab soil gas sample exceed the vapor risk screening levels (VRSLs) established by the WDNR for residential buildings and therefore do not pose a vapor intrusion risk.

Several VOCs were detected in the background outdoor air (OA-208 South Sample ID) and two indoor air (IA-B-208 South and IA-G-208 South Sample IDs) samples. Review of the outdoor air and indoor air test results shows several of the compounds were detected at similar concentrations, which indicates those VOCs are most likely from an outside source. The VOCs detected in the indoor air samples at higher concentrations than the outdoor air sample suggest indoor sources are the primary sources for those VOCs. Indoor sources of VOCs may include cleaning products, personal care products, aerosol spray products, deodorizers, air fresheners, scented candles, and paint. 1,2-

TETRA TECH
175 N. Corporate Drive, Suite 100, Brookfield, WI 53045
Tel 262.792.1282 Fax 262.792.1310 www.tetratech.com

Dichloroethane and 2-Popanol, which is more commonly called Isopropyl Alcohol, were detected in the indoor air sample collected from the ground floor of your home (IA-G-208 South Sample ID) at concentrations that are equal to or exceed the vapor action levels (VALs) established by the WDNR for residential buildings indicating they may pose a health risk.

1,2-Dichloroethane was detected at a reported concentration of 1.1 ug/m^3 in the indoor air sample collected from the ground floor of the house, which equals the WDNR residential VAL of 1.1 ug/m^3. Please note, the J designation next to the reported 1,2-Dichloroethane concentration in the indoor air sample indicates the reported concentration of 1.1 ug/m^3 is an estimated concentration because the compound was detected between the limit of quantitation (LOQ) and limit of detection (LOD) so the actual concentration may be lower than 1.1 ug/m^3. 1,2-Dichloroethane was not detected in the sub-slab soil gas sample so the soil gas is not the source of the 1,2-Dichloroethane detected in the indoor air sample. 1,2-Dichloroethane was also not detected in the background outdoor air sample (OA-208 South Sample ID), which indicates the 1,2-Dichloroethane detected in the indoor air sample is not from an outdoor source. The source of the 1,2-Dichloroethane is therefore from a source inside the house. Attached is a table prepared by the WDNR listing common household sources of background indoor air contamination. The table lists molded plastic objects or decorations, cigarette smoke, and PVC and vinyl floor adhesives as common sources of 1,2-Dichloroethane.

Isopropyl Alcohol (2-Propanol), was detected at a reported concentration of 720 ug/m^3 in the indoor air sample collected from the ground floor of your house. The residential VAL for Isopropyl Alcohol is 210 ug/m^3. The soil gas sample had a reported Isopropyl Alcohol concentration of only 11.9 ug/m^3, which indicates the soil gas is not the source of the Isopropyl Alcohol in the indoor air. Isopropyl Alcohol is found in numerous products including paints, paint thinner, paint remover, inks, fuels, disinfectants, coatings, dyes, cements, and deicers. It can also be found in variable amounts among common household products such as medications, colognes, perfumes, toiletries, window cleaning fluids, and over-the-counter hand sanitizers.

Conclusions

The test results indicate the low-level VOCs detected in the sub-slab soil gas sample collected from the sub-slab soil gas probe installed through the basement floor of your 208 South Street house do not pose a vapor intrusion risk and soil gas is not the source of the 1,2-Dichloroethane and Isopropyl Alcohol detected in the ground floor indoor air sample. The VOCs detected in the indoor air samples collected from the basement and ground floor of your home are therefore likely due to outdoor sources or products and items used or stored in the home. The test results were also submitted to the WDNR for review.

Removal of Sub-Slab Soil Gas Probe

If you do not object, we would like to keep the sub-slab soil gas probe in place as the WDNR may request that we collect additional soil gas samples from the probe to confirm the results of this sampling event. Please contact Mark Manthey of Tetra Tech at 262-207-3458 or Mark.Manthey@tetratech.com if you have any questions or concerns regarding the sub-slab soil gas probe.

****

If you have any questions or concerns about the test results, please call Mr. Jay Shambeau, City of West Bend Administrator, at 262-335-5171, John Feeney of the WDNR, at 262-416-8643, or Brita Kilburg-Gasnyat, Ph. D., of the Wisconsin Department of Health Services, at 608-266-2817.

Sincerely,
Tetra Tech

Mark A. Manthey, P.G.
Associate Hydrogeologist

Enclosures: Pace Analytical, LLC Laboratory Report
WDNR Table of Background Vapor Sources

cc: Jay Shambeau, City of West Bend
John Feeney, Wisconsin DNR

APPENDIX A – BACKGROUND VAPOR SOURCES

COMMON HOUSEHOLD SOURCES OF BACKGROUND INDOOR AIR CONTAMINATION LISTED BY PRODUCT
NOTE: Analysis of indoor air should be specific to the VOCs expected from soil and/or groundwater contamination. (e.g.if CVOCs are the target chemical, then items containing CVOCs should be removed from the building at least 24 hours prior to sampling.)
Fuel containers or devices using gasoline, kerosene, fuel oil and products with petroleum distillates: - paint thinner - oil-based stains and paint - aerosol or liquid insect pest products - mineral spirits - furniture polishes
Personal care products: - nail polish - nail polish remover - colognes and perfumes - rubbing alcohol - hair spray
Dry cleaned clothes, spot removers, fabric/ leather cleaners
Household Cleaners - Oven cleaners - Carpet/upholstery cleaners - Bathroom cleaner - Appliance cleaner - Citrus (orange) oil or pine oil cleaners - Furniture/floor polish
PVC cement and primer, various adhesives, contact cement, model cement
Paint stripper and adhesive (glue) removers
Degreasers and cleaning solvents, such as: - aerosol penetrating oils - brake cleaner - carburetor cleaner - commercial solvents - electronics cleaners - spray lubricants
Moth balls and moth flakes
Aerosol spray products: - paints - cosmetics - automotive products - leather treatments - pesticides
Deodorizers, air fresheners, scented trees, potpourri, and scented candles
Hobby supplies
- paints and lacquers - solvents - glues - photo darkroom chemicals

APPENDIX A – BACKGROUND VAPOR SOURCES

COMMON HOUSEHOLD SOURCES OF BACKGROUND INDOOR AIR CONTAMINATION LISTED BY CHEMICAL[1,2]	
Acetone	rubber cement, cleaning fluids, scented candles and nail polish remover
Benzene	automobile exhaust, gasoline, cigarette smoke, scented candles, scatter rugs and carpet glue
Bromomethane	soil or space fumigant
1, 3-Butadiene	automobile exhaust and residential wood combustion
2-Butanone (MEK)	automobile exhaust, printing inks, fragrance/flavoring agent in candy and perfume, paint, glue, cleaning agents and cigarette smoke
Chlorobenzene	scented candles, plastic foam insulation and paint products
Chloroethane	Refrigerant
Chloroform	generated from chlorinated water (showers)
Cyclohexane	gasoline, paint thinner, paint and varnish remover
1,4-Dichlorobenzene	moth balls, general insecticide in farming, air deodorant and toilet disinfectant
Dichlorodifluoromethane	refrigerant (CFCs) and cleaning solvent
1, 1-Dichloroethane	plastic products (food and other packaging material) and flame retardant fabrics
1,2-Dichloroethane	molded plastic objects/decorations (particularly from China), cigarette smoke, PVC and vinyl floor adhesives[3]
1, 3-Dichloropropene	fungicides
Ethylbenzene	paint, paint thinners, insecticides, wood office furniture, scented candles and gasoline
Formaldehyde	building materials (particle board), furniture, insulation and cigarette smoke
n-Heptane	gasoline, nail polishes, wood office furniture and petroleum products
n- Hexane	gasoline, rubber cement, typing correction fluid and aerosols in perfumes
Methylene chloride	hairspray, paint stripper, rug cleaners, insecticides and furniture polish
Methyl isobutyl ketone (MIBK)	paints, varnishes, dry cleaning preparations, naturally found in oranges, grapes and vinegar
Methyl *tert* butyl ether (MTBE)	gasoline (oxygenating agent)
Naphthalene	cigarette smoke, automobile exhaust, residential wood combustion, insecticides and moth balls
Styrene	cigarette smoke, automobile exhaust, fiberglass, rubber and epoxy adhesives, occurs naturally in various fruits, vegetables, nuts and meats
Tertiary butyl alcohol (TBA)	gasoline (oxygenating agent)
1,1,2,2-Tetrachloroethane	solvent, paint and rust removers, varnishes and lacquers
Tetrachloroethene (PCE)	dry cleaning, metal degreasing, adhesives and glues, insecticides, scented candles and rug cleaner
Toluene	gasoline, automobile exhaust, polishes, nail polish, synthetic fragrances, paint, scented candles, paint thinner, adhesives and cigarette smoke
1, 1, 1-Trichloroethane	spot cleaner, glues, insecticides, drain cleaners, shoe polish
Trichloroethene (TCE)	glues, adhesives, paint removers, spot removers, rug cleaning fluids, paints, metal cleaners, and automotive cleaning and degreasing products
1, 2, 4 and 1,3,5 - Trimethylbenzene	gasoline and automobile exhaust
Xylenes, total	water sealer, gasoline, automobile exhaust, markers, paint, floor polish and cigarette smoke

[1] Department of Defense (DOD). 2009. DoD Vapor Intrusion Handbook. Prepared by the Tri-Service Environmental Risk Assessment Workgroup. January 2009.

[2] New Jersey Department of Environmental Protection (NJDEP). 2016. Vapor Intrusion Technical Guidance, Appendix H. NJDEP, Site Remediation and Waste Management Program, Trenton, NJ. August, 2016. http://www.nj.gov/dep/srp/guidance/vaporintrusion/vig_appendices.pdf

[3] Kurtz, J.P. et. al. 2010. Evidence for increasing indoor sources of 1,2-dichloroethane since 2004 at two Colorado residential vapor intrusion sites. *Ground Water Monitoring and Remediation*. 30, no. 3: 107-112.

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

October 27, 2021

Mr. Mark Manthey
Tetra Tech
175 N. Corporate Dr.
Suite 100
Brookfield, WI 53045

RE: Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Dear Mr. Manthey:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2021. 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,

Matt Ray
matt.ray@pacelabs.com
(612)607-1700
Project Manager

Enclosures

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

CERTIFICATIONS

Project:	117-1371006.305 City of West B
Pace Project No.:	10583427

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
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
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
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 #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 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 (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
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
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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

SAMPLE SUMMARY

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10583427001	**IA-B-208 South**	Air	10/13/21 09:11	10/15/21 11:10
10583427002	**IA-G-208 South**	Air	10/13/21 09:10	10/15/21 11:10
10583427003	**OA-208 South**	Air	10/13/21 09:16	10/15/21 11:10
10583427004	**SG-208 South**	Air	10/13/21 09:56	10/15/21 11:10

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Minneapolis, MN 55414
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SAMPLE ANALYTE COUNT

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10583427001	**IA-B-208 South**	TO-15	HMH	61	PASI-M
10583427002	**IA-G-208 South**	TO-15	HMH	61	PASI-M
10583427003	**OA-208 South**	TO-15	HMH	61	PASI-M
10583427004	**SG-208 South**	TO-15	GT	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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

ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: IA-B-208 South **Lab ID: 10583427001** Collected: 10/13/21 09:11 Received: 10/15/21 11:10 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	**130**	ug/m3	9.0	2.7	1.49		10/23/21 03:09	67-64-1	
Benzene	**0.74J**	ug/m3	0.97	0.17	1.49		10/23/21 03:09	71-43-2	
Benzyl chloride	**<1.3**	ug/m3	3.9	1.3	1.49		10/23/21 03:09	100-44-7	
Bromodichloromethane	**<0.35**	ug/m3	2.0	0.35	1.49		10/23/21 03:09	75-27-4	
Bromoform	**<2.4**	ug/m3	7.8	2.4	1.49		10/23/21 03:09	75-25-2	
Bromomethane	**<0.22**	ug/m3	1.2	0.22	1.49		10/23/21 03:09	74-83-9	
1,3-Butadiene	**<0.18**	ug/m3	0.67	0.18	1.49		10/23/21 03:09	106-99-0	
2-Butanone (MEK)	**5.4**	ug/m3	4.5	0.69	1.49		10/23/21 03:09	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	0.94	0.19	1.49		10/23/21 03:09	75-15-0	
Carbon tetrachloride	**0.63J**	ug/m3	1.9	0.42	1.49		10/23/21 03:09	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.4	0.23	1.49		10/23/21 03:09	108-90-7	
Chloroethane	**<0.33**	ug/m3	0.80	0.33	1.49		10/23/21 03:09	75-00-3	
Chloroform	**<0.27**	ug/m3	1.5	0.27	1.49		10/23/21 03:09	67-66-3	
Chloromethane	**0.99**	ug/m3	0.63	0.13	1.49		10/23/21 03:09	74-87-3	
Cyclohexane	**1.9J**	ug/m3	2.6	0.33	1.49		10/23/21 03:09	110-82-7	
Dibromochloromethane	**<0.77**	ug/m3	2.6	0.77	1.49		10/23/21 03:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.45**	ug/m3	2.3	0.45	1.49		10/23/21 03:09	106-93-4	
1,2-Dichlorobenzene	**<0.60**	ug/m3	4.6	0.60	1.49		10/23/21 03:09	95-50-1	
1,3-Dichlorobenzene	**<0.76**	ug/m3	4.6	0.76	1.49		10/23/21 03:09	541-73-1	
1,4-Dichlorobenzene	**<1.3**	ug/m3	4.6	1.3	1.49		10/23/21 03:09	106-46-7	
Dichlorodifluoromethane	**3.2**	ug/m3	1.5	0.28	1.49		10/23/21 03:09	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.2	0.25	1.49		10/23/21 03:09	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	1.2	0.29	1.49		10/23/21 03:09	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.49		10/23/21 03:09	75-35-4	
cis-1,2-Dichloroethene	**<0.29**	ug/m3	1.2	0.29	1.49		10/23/21 03:09	156-59-2	
trans-1,2-Dichloroethene	**<0.25**	ug/m3	1.2	0.25	1.49		10/23/21 03:09	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.4	0.40	1.49		10/23/21 03:09	78-87-5	
cis-1,3-Dichloropropene	**<0.38**	ug/m3	3.4	0.38	1.49		10/23/21 03:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	3.4	0.81	1.49		10/23/21 03:09	10061-02-6	
Dichlorotetrafluoroethane	**0.46J**	ug/m3	2.1	0.30	1.49		10/23/21 03:09	76-14-2	
Ethanol	**150**	ug/m3	2.9	0.88	1.49		10/23/21 03:09	64-17-5	
Ethyl acetate	**1.7**	ug/m3	1.1	0.20	1.49		10/23/21 03:09	141-78-6	
Ethylbenzene	**0.68J**	ug/m3	1.3	0.46	1.49		10/23/21 03:09	100-41-4	
4-Ethyltoluene	**<0.70**	ug/m3	3.7	0.70	1.49		10/23/21 03:09	622-96-8	
n-Heptane	**2.2**	ug/m3	1.2	0.27	1.49		10/23/21 03:09	142-82-5	
Hexachloro-1,3-butadiene	**<1.8**	ug/m3	8.1	1.8	1.49		10/23/21 03:09	87-68-3	
n-Hexane	**1.4**	ug/m3	1.1	0.28	1.49		10/23/21 03:09	110-54-3	
2-Hexanone	**1.0J**	ug/m3	6.2	0.66	1.49		10/23/21 03:09	591-78-6	
Methylene Chloride	**1.5J**	ug/m3	5.3	0.88	1.49		10/23/21 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.2J**	ug/m3	6.2	0.48	1.49		10/23/21 03:09	108-10-1	
Methyl-tert-butyl ether	**<0.19**	ug/m3	5.5	0.19	1.49		10/23/21 03:09	1634-04-4	
Naphthalene	**<3.2**	ug/m3	4.0	3.2	1.49		10/23/21 03:09	91-20-3	
2-Propanol	**205**	ug/m3	3.7	0.76	1.49		10/23/21 03:09	67-63-0	
Propylene	**1.0J**	ug/m3	1.3	0.19	1.49		10/23/21 03:09	115-07-1	
Styrene	**0.95J**	ug/m3	1.3	0.57	1.49		10/23/21 03:09	100-42-5	

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

ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: IA-B-208 South **Lab ID: 10583427001** Collected: 10/13/21 09:11 Received: 10/15/21 11:10 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	**<0.55**	ug/m3	2.1	0.55	1.49		10/23/21 03:09	79-34-5	
Tetrachloroethene	**<0.44**	ug/m3	1.0	0.44	1.49		10/23/21 03:09	127-18-4	
Tetrahydrofuran	**2.1**	ug/m3	0.89	0.27	1.49		10/23/21 03:09	109-99-9	
Toluene	**7.8**	ug/m3	1.1	0.36	1.49		10/23/21 03:09	108-88-3	
1,2,4-Trichlorobenzene	**<7.3**	ug/m3	11.2	7.3	1.49		10/23/21 03:09	120-82-1	
1,1,1-Trichloroethane	**<0.28**	ug/m3	1.7	0.28	1.49		10/23/21 03:09	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/m3	1.7	0.29	1.49		10/23/21 03:09	79-00-5	
Trichloroethene	**<0.29**	ug/m3	1.6	0.29	1.49		10/23/21 03:09	79-01-6	
Trichlorofluoromethane	**2.4J**	ug/m3	4.3	0.35	1.49		10/23/21 03:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.1J**	ug/m3	2.3	0.43	1.49		10/23/21 03:09	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.5	0.53	1.49		10/23/21 03:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.43**	ug/m3	1.5	0.43	1.49		10/23/21 03:09	108-67-8	
Vinyl acetate	**<0.31**	ug/m3	1.1	0.31	1.49		10/23/21 03:09	108-05-4	
Vinyl chloride	**<0.13**	ug/m3	0.39	0.13	1.49		10/23/21 03:09	75-01-4	
m&p-Xylene	**2.5J**	ug/m3	2.6	0.96	1.49		10/23/21 03:09	179601-23-1	
o-Xylene	**0.93J**	ug/m3	1.3	0.40	1.49		10/23/21 03:09	95-47-6	

Sample: IA-G-208 South **Lab ID: 10583427002** Collected: 10/13/21 09:10 Received: 10/15/21 11:10 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	**179**	ug/m3	9.4	2.8	1.55		10/23/21 03:50	67-64-1	
Benzene	**0.75J**	ug/m3	1.0	0.18	1.55		10/23/21 03:50	71-43-2	
Benzyl chloride	**<1.4**	ug/m3	4.1	1.4	1.55		10/23/21 03:50	100-44-7	
Bromodichloromethane	**0.64J**	ug/m3	2.1	0.37	1.55		10/23/21 03:50	75-27-4	
Bromoform	**<2.5**	ug/m3	8.1	2.5	1.55		10/23/21 03:50	75-25-2	
Bromomethane	**<0.23**	ug/m3	1.2	0.23	1.55		10/23/21 03:50	74-83-9	
1,3-Butadiene	**<0.19**	ug/m3	0.70	0.19	1.55		10/23/21 03:50	106-99-0	
2-Butanone (MEK)	**6.9**	ug/m3	4.6	0.72	1.55		10/23/21 03:50	78-93-3	
Carbon disulfide	**3.5**	ug/m3	0.98	0.20	1.55		10/23/21 03:50	75-15-0	
Carbon tetrachloride	**0.74J**	ug/m3	2.0	0.43	1.55		10/23/21 03:50	56-23-5	
Chlorobenzene	**<0.24**	ug/m3	1.5	0.24	1.55		10/23/21 03:50	108-90-7	
Chloroethane	**<0.35**	ug/m3	0.83	0.35	1.55		10/23/21 03:50	75-00-3	
Chloroform	**<0.28**	ug/m3	1.5	0.28	1.55		10/23/21 03:50	67-66-3	
Chloromethane	**<0.13**	ug/m3	0.65	0.13	1.55		10/23/21 03:50	74-87-3	
Cyclohexane	**1.5J**	ug/m3	2.7	0.34	1.55		10/23/21 03:50	110-82-7	
Dibromochloromethane	**0.93J**	ug/m3	2.7	0.80	1.55		10/23/21 03:50	124-48-1	
1,2-Dibromoethane (EDB)	**<0.46**	ug/m3	2.4	0.46	1.55		10/23/21 03:50	106-93-4	
1,2-Dichlorobenzene	**<0.63**	ug/m3	4.7	0.63	1.55		10/23/21 03:50	95-50-1	
1,3-Dichlorobenzene	**<0.79**	ug/m3	4.7	0.79	1.55		10/23/21 03:50	541-73-1	
1,4-Dichlorobenzene	**<1.4**	ug/m3	4.7	1.4	1.55		10/23/21 03:50	106-46-7	

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1700 Elm Street
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(612)607-1700

ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: IA-G-208 South **Lab ID: 10583427002** Collected: 10/13/21 09:10 Received: 10/15/21 11:10 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	**2.9**	ug/m3	1.6	0.29	1.55		10/23/21 03:50	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.3	0.26	1.55		10/23/21 03:50	75-34-3	
1,2-Dichloroethane	**1.1J**	ug/m3	1.3	0.30	1.55		10/23/21 03:50	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.55		10/23/21 03:50	75-35-4	
cis-1,2-Dichloroethene	**<0.30**	ug/m3	1.2	0.30	1.55		10/23/21 03:50	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/m3	1.2	0.26	1.55		10/23/21 03:50	156-60-5	
1,2-Dichloropropane	**<0.42**	ug/m3	1.5	0.42	1.55		10/23/21 03:50	78-87-5	
cis-1,3-Dichloropropene	**<0.40**	ug/m3	3.6	0.40	1.55		10/23/21 03:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	3.6	0.84	1.55		10/23/21 03:50	10061-02-6	
Dichlorotetrafluoroethane	**<0.31**	ug/m3	2.2	0.31	1.55		10/23/21 03:50	76-14-2	
Ethanol	**1930**	ug/m3	3.0	0.92	1.55		10/23/21 03:50	64-17-5	E
Ethyl acetate	**25.0**	ug/m3	1.1	0.20	1.55		10/23/21 03:50	141-78-6	
Ethylbenzene	**1.8**	ug/m3	1.4	0.48	1.55		10/23/21 03:50	100-41-4	
4-Ethyltoluene	**0.95J**	ug/m3	3.9	0.73	1.55		10/23/21 03:50	622-96-8	
n-Heptane	**4.5**	ug/m3	1.3	0.28	1.55		10/23/21 03:50	142-82-5	
Hexachloro-1,3-butadiene	**<1.9**	ug/m3	8.4	1.9	1.55		10/23/21 03:50	87-68-3	
n-Hexane	**1.6**	ug/m3	1.1	0.30	1.55		10/23/21 03:50	110-54-3	
2-Hexanone	**1.4J**	ug/m3	6.4	0.69	1.55		10/23/21 03:50	591-78-6	
Methylene Chloride	**1.6J**	ug/m3	5.5	0.92	1.55		10/23/21 03:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.6J**	ug/m3	6.4	0.50	1.55		10/23/21 03:50	108-10-1	
Methyl-tert-butyl ether	**<0.20**	ug/m3	5.7	0.20	1.55		10/23/21 03:50	1634-04-4	
Naphthalene	**<3.4**	ug/m3	4.1	3.4	1.55		10/23/21 03:50	91-20-3	
2-Propanol	**720**	ug/m3	3.9	0.79	1.55		10/23/21 03:50	67-63-0	E
Propylene	**29.3**	ug/m3	1.4	0.20	1.55		10/23/21 03:50	115-07-1	
Styrene	**2.3**	ug/m3	1.3	0.60	1.55		10/23/21 03:50	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.2	0.58	1.55		10/23/21 03:50	79-34-5	
Tetrachloroethene	**0.62J**	ug/m3	1.1	0.45	1.55		10/23/21 03:50	127-18-4	
Tetrahydrofuran	**1.8**	ug/m3	0.93	0.28	1.55		10/23/21 03:50	109-99-9	
Toluene	**9.5**	ug/m3	1.2	0.38	1.55		10/23/21 03:50	108-88-3	
1,2,4-Trichlorobenzene	**<7.6**	ug/m3	11.7	7.6	1.55		10/23/21 03:50	120-82-1	
1,1,1-Trichloroethane	**<0.29**	ug/m3	1.7	0.29	1.55		10/23/21 03:50	71-55-6	
1,1,2-Trichloroethane	**<0.31**	ug/m3	1.7	0.31	1.55		10/23/21 03:50	79-00-5	
Trichloroethene	**<0.30**	ug/m3	1.7	0.30	1.55		10/23/21 03:50	79-01-6	
Trichlorofluoromethane	**2.4J**	ug/m3	4.4	0.36	1.55		10/23/21 03:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.0J**	ug/m3	2.4	0.45	1.55		10/23/21 03:50	76-13-1	
1,2,4-Trimethylbenzene	**2.4**	ug/m3	1.5	0.55	1.55		10/23/21 03:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.45**	ug/m3	1.5	0.45	1.55		10/23/21 03:50	108-67-8	
Vinyl acetate	**<0.32**	ug/m3	1.1	0.32	1.55		10/23/21 03:50	108-05-4	
Vinyl chloride	**<0.13**	ug/m3	0.40	0.13	1.55		10/23/21 03:50	75-01-4	
m&p-Xylene	**3.2**	ug/m3	2.7	1.0	1.55		10/23/21 03:50	179601-23-1	
o-Xylene	**1.3J**	ug/m3	1.4	0.42	1.55		10/23/21 03:50	95-47-6	

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ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: OA-208 South **Lab ID: 10583427003** Collected: 10/13/21 09:16 Received: 10/15/21 11:10 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	**11.2**	ug/m3	9.0	2.7	1.49		10/24/21 21:40	67-64-1	
Benzene	**0.29J**	ug/m3	0.97	0.17	1.49		10/24/21 21:40	71-43-2	
Benzyl chloride	**<1.3**	ug/m3	3.9	1.3	1.49		10/24/21 21:40	100-44-7	
Bromodichloromethane	**<0.35**	ug/m3	2.0	0.35	1.49		10/24/21 21:40	75-27-4	
Bromoform	**<2.4**	ug/m3	7.8	2.4	1.49		10/24/21 21:40	75-25-2	
Bromomethane	**<0.22**	ug/m3	1.2	0.22	1.49		10/24/21 21:40	74-83-9	
1,3-Butadiene	**<0.18**	ug/m3	0.67	0.18	1.49		10/24/21 21:40	106-99-0	
2-Butanone (MEK)	**2.8J**	ug/m3	4.5	0.69	1.49		10/24/21 21:40	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	0.94	0.19	1.49		10/24/21 21:40	75-15-0	
Carbon tetrachloride	**0.57J**	ug/m3	1.9	0.42	1.49		10/24/21 21:40	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.4	0.23	1.49		10/24/21 21:40	108-90-7	
Chloroethane	**<0.33**	ug/m3	0.80	0.33	1.49		10/24/21 21:40	75-00-3	
Chloroform	**<0.27**	ug/m3	1.5	0.27	1.49		10/24/21 21:40	67-66-3	
Chloromethane	**0.91**	ug/m3	0.63	0.13	1.49		10/24/21 21:40	74-87-3	
Cyclohexane	**0.33J**	ug/m3	2.6	0.33	1.49		10/24/21 21:40	110-82-7	
Dibromochloromethane	**<0.77**	ug/m3	2.6	0.77	1.49		10/24/21 21:40	124-48-1	
1,2-Dibromoethane (EDB)	**<0.45**	ug/m3	2.3	0.45	1.49		10/24/21 21:40	106-93-4	
1,2-Dichlorobenzene	**<0.60**	ug/m3	4.6	0.60	1.49		10/24/21 21:40	95-50-1	
1,3-Dichlorobenzene	**<0.76**	ug/m3	4.6	0.76	1.49		10/24/21 21:40	541-73-1	
1,4-Dichlorobenzene	**<1.3**	ug/m3	4.6	1.3	1.49		10/24/21 21:40	106-46-7	
Dichlorodifluoromethane	**6.3**	ug/m3	1.5	0.28	1.49		10/24/21 21:40	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.2	0.25	1.49		10/24/21 21:40	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	1.2	0.29	1.49		10/24/21 21:40	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.49		10/24/21 21:40	75-35-4	
cis-1,2-Dichloroethene	**<0.29**	ug/m3	1.2	0.29	1.49		10/24/21 21:40	156-59-2	
trans-1,2-Dichloroethene	**<0.25**	ug/m3	1.2	0.25	1.49		10/24/21 21:40	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.4	0.40	1.49		10/24/21 21:40	78-87-5	
cis-1,3-Dichloropropene	**<0.38**	ug/m3	3.4	0.38	1.49		10/24/21 21:40	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	3.4	0.81	1.49		10/24/21 21:40	10061-02-6	
Dichlorotetrafluoroethane	**<0.30**	ug/m3	2.1	0.30	1.49		10/24/21 21:40	76-14-2	
Ethanol	**6.8**	ug/m3	2.9	0.88	1.49		10/24/21 21:40	64-17-5	
Ethyl acetate	**<0.20**	ug/m3	1.1	0.20	1.49		10/24/21 21:40	141-78-6	
Ethylbenzene	**<0.46**	ug/m3	1.3	0.46	1.49		10/24/21 21:40	100-41-4	
4-Ethyltoluene	**<0.70**	ug/m3	3.7	0.70	1.49		10/24/21 21:40	622-96-8	
n-Heptane	**1.3**	ug/m3	1.2	0.27	1.49		10/24/21 21:40	142-82-5	
Hexachloro-1,3-butadiene	**<1.8**	ug/m3	8.1	1.8	1.49		10/24/21 21:40	87-68-3	
n-Hexane	**0.50J**	ug/m3	1.1	0.28	1.49		10/24/21 21:40	110-54-3	
2-Hexanone	**1.3J**	ug/m3	6.2	0.66	1.49		10/24/21 21:40	591-78-6	
Methylene Chloride	**1.5J**	ug/m3	5.3	0.88	1.49		10/24/21 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.48**	ug/m3	6.2	0.48	1.49		10/24/21 21:40	108-10-1	
Methyl-tert-butyl ether	**<0.19**	ug/m3	5.5	0.19	1.49		10/24/21 21:40	1634-04-4	
Naphthalene	**<3.2**	ug/m3	4.0	3.2	1.49		10/24/21 21:40	91-20-3	
2-Propanol	**2.8J**	ug/m3	3.7	0.76	1.49		10/24/21 21:40	67-63-0	
Propylene	**0.70J**	ug/m3	1.3	0.19	1.49		10/24/21 21:40	115-07-1	
Styrene	**<0.57**	ug/m3	1.3	0.57	1.49		10/24/21 21:40	100-42-5	

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(612)607-1700

ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: OA-208 South **Lab ID: 10583427003** Collected: 10/13/21 09:16 Received: 10/15/21 11:10 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	**<0.55**	ug/m3	2.1	0.55	1.49		10/24/21 21:40	79-34-5	
Tetrachloroethene	**<0.44**	ug/m3	1.0	0.44	1.49		10/24/21 21:40	127-18-4	
Tetrahydrofuran	**<0.27**	ug/m3	0.89	0.27	1.49		10/24/21 21:40	109-99-9	
Toluene	**1.2**	ug/m3	1.1	0.36	1.49		10/24/21 21:40	108-88-3	
1,2,4-Trichlorobenzene	**<7.3**	ug/m3	11.2	7.3	1.49		10/24/21 21:40	120-82-1	
1,1,1-Trichloroethane	**<0.28**	ug/m3	1.7	0.28	1.49		10/24/21 21:40	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/m3	1.7	0.29	1.49		10/24/21 21:40	79-00-5	
Trichloroethene	**<0.29**	ug/m3	1.6	0.29	1.49		10/24/21 21:40	79-01-6	
Trichlorofluoromethane	**2.7J**	ug/m3	4.3	0.35	1.49		10/24/21 21:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.0J**	ug/m3	2.3	0.43	1.49		10/24/21 21:40	76-13-1	
1,2,4-Trimethylbenzene	**<0.53**	ug/m3	1.5	0.53	1.49		10/24/21 21:40	95-63-6	
1,3,5-Trimethylbenzene	**<0.43**	ug/m3	1.5	0.43	1.49		10/24/21 21:40	108-67-8	
Vinyl acetate	**<0.31**	ug/m3	1.1	0.31	1.49		10/24/21 21:40	108-05-4	
Vinyl chloride	**<0.13**	ug/m3	0.39	0.13	1.49		10/24/21 21:40	75-01-4	
m&p-Xylene	**<0.96**	ug/m3	2.6	0.96	1.49		10/24/21 21:40	179601-23-1	
o-Xylene	**<0.40**	ug/m3	1.3	0.40	1.49		10/24/21 21:40	95-47-6	

Sample: SG-208 South **Lab ID: 10583427004** Collected: 10/13/21 09:56 Received: 10/15/21 11:10 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	**14.2**	ug/m3	10.6	3.2	1.75		10/26/21 21:02	67-64-1	
Benzene	**0.69**	ug/m3	0.57	0.20	1.75		10/26/21 21:02	71-43-2	
Benzyl chloride	**<1.6**	ug/m3	4.6	1.6	1.75		10/26/21 21:02	100-44-7	
Bromodichloromethane	**<0.41**	ug/m3	2.4	0.41	1.75		10/26/21 21:02	75-27-4	
Bromoform	**<2.8**	ug/m3	9.2	2.8	1.75		10/26/21 21:02	75-25-2	
Bromomethane	**<0.26**	ug/m3	1.4	0.26	1.75		10/26/21 21:02	74-83-9	
1,3-Butadiene	**<0.21**	ug/m3	0.79	0.21	1.75		10/26/21 21:02	106-99-0	
2-Butanone (MEK)	**2.5J**	ug/m3	5.2	0.81	1.75		10/26/21 21:02	78-93-3	
Carbon disulfide	**0.36J**	ug/m3	1.1	0.23	1.75		10/26/21 21:02	75-15-0	
Carbon tetrachloride	**<0.49**	ug/m3	2.2	0.49	1.75		10/26/21 21:02	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.6	0.27	1.75		10/26/21 21:02	108-90-7	
Chloroethane	**<0.39**	ug/m3	0.94	0.39	1.75		10/26/21 21:02	75-00-3	
Chloroform	**<0.32**	ug/m3	0.87	0.32	1.75		10/26/21 21:02	67-66-3	
Chloromethane	**0.52J**	ug/m3	0.74	0.15	1.75		10/26/21 21:02	74-87-3	
Cyclohexane	**0.57J**	ug/m3	3.1	0.39	1.75		10/26/21 21:02	110-82-7	
Dibromochloromethane	**<0.90**	ug/m3	3.0	0.90	1.75		10/26/21 21:02	124-48-1	
1,2-Dibromoethane (EDB)	**<0.52**	ug/m3	1.4	0.52	1.75		10/26/21 21:02	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/m3	5.4	0.71	1.75		10/26/21 21:02	95-50-1	
1,3-Dichlorobenzene	**1.1J**	ug/m3	5.4	0.89	1.75		10/26/21 21:02	541-73-1	
1,4-Dichlorobenzene	**<1.5**	ug/m3	5.4	1.5	1.75		10/26/21 21:02	106-46-7	

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(612)607-1700

ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: SG-208 South **Lab ID: 10583427004** Collected: 10/13/21 09:56 Received: 10/15/21 11:10 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	**3.1**	ug/m3	1.8	0.33	1.75		10/26/21 21:02	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.4	0.29	1.75		10/26/21 21:02	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	1.4	0.34	1.75		10/26/21 21:02	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/m3	1.4	0.24	1.75		10/26/21 21:02	75-35-4	
cis-1,2-Dichloroethene	**<0.34**	ug/m3	1.4	0.34	1.75		10/26/21 21:02	156-59-2	
trans-1,2-Dichloroethene	**<0.29**	ug/m3	1.4	0.29	1.75		10/26/21 21:02	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		10/26/21 21:02	78-87-5	
cis-1,3-Dichloropropene	**<0.45**	ug/m3	4.0	0.45	1.75		10/26/21 21:02	10061-01-5	
trans-1,3-Dichloropropene	**<0.95**	ug/m3	4.0	0.95	1.75		10/26/21 21:02	10061-02-6	
Dichlorotetrafluoroethane	**<0.35**	ug/m3	2.5	0.35	1.75		10/26/21 21:02	76-14-2	
Ethanol	**52.8**	ug/m3	3.4	1.0	1.75		10/26/21 21:02	64-17-5	
Ethyl acetate	**<0.23**	ug/m3	1.3	0.23	1.75		10/26/21 21:02	141-78-6	
Ethylbenzene	**2.8**	ug/m3	1.5	0.54	1.75		10/26/21 21:02	100-41-4	
4-Ethyltoluene	**2.1J**	ug/m3	4.4	0.83	1.75		10/26/21 21:02	622-96-8	
n-Heptane	**<0.32**	ug/m3	1.5	0.32	1.75		10/26/21 21:02	142-82-5	
Hexachloro-1,3-butadiene	**<2.2**	ug/m3	9.5	2.2	1.75		10/26/21 21:02	87-68-3	
n-Hexane	**0.35J**	ug/m3	1.3	0.33	1.75		10/26/21 21:02	110-54-3	
2-Hexanone	**1.1J**	ug/m3	7.3	0.77	1.75		10/26/21 21:02	591-78-6	
Methylene Chloride	**<1.0**	ug/m3	6.2	1.0	1.75		10/26/21 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.92J**	ug/m3	7.3	0.56	1.75		10/26/21 21:02	108-10-1	
Methyl-tert-butyl ether	**0.36J**	ug/m3	6.4	0.22	1.75		10/26/21 21:02	1634-04-4	
Naphthalene	**<3.8**	ug/m3	4.7	3.8	1.75		10/26/21 21:02	91-20-3	
2-Propanol	**11.9**	ug/m3	4.4	0.89	1.75		10/26/21 21:02	67-63-0	
Propylene	**<0.23**	ug/m3	1.5	0.23	1.75		10/26/21 21:02	115-07-1	
Styrene	**3.3**	ug/m3	1.5	0.67	1.75		10/26/21 21:02	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.65**	ug/m3	2.4	0.65	1.75		10/26/21 21:02	79-34-5	
Tetrachloroethene	**1.6**	ug/m3	1.2	0.51	1.75		10/26/21 21:02	127-18-4	
Tetrahydrofuran	**<0.32**	ug/m3	1.0	0.32	1.75		10/26/21 21:02	109-99-9	
Toluene	**8.4**	ug/m3	1.3	0.43	1.75		10/26/21 21:02	108-88-3	
1,2,4-Trichlorobenzene	**<8.5**	ug/m3	13.2	8.5	1.75		10/26/21 21:02	120-82-1	
1,1,1-Trichloroethane	**3.1**	ug/m3	1.9	0.33	1.75		10/26/21 21:02	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/m3	0.97	0.34	1.75		10/26/21 21:02	79-00-5	
Trichloroethene	**1.1J**	ug/m3	1.9	0.34	1.75		10/26/21 21:02	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	2.0	0.41	1.75		10/26/21 21:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.8J**	ug/m3	2.7	0.51	1.75		10/26/21 21:02	76-13-1	
1,2,4-Trimethylbenzene	**4.8**	ug/m3	1.7	0.62	1.75		10/26/21 21:02	95-63-6	
1,3,5-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.51	1.75		10/26/21 21:02	108-67-8	
Vinyl acetate	**<0.36**	ug/m3	1.3	0.36	1.75		10/26/21 21:02	108-05-4	
Vinyl chloride	**<0.15**	ug/m3	0.46	0.15	1.75		10/26/21 21:02	75-01-4	
m&p-Xylene	**10.1**	ug/m3	3.1	1.1	1.75		10/26/21 21:02	179601-23-1	
o-Xylene	**3.7**	ug/m3	1.5	0.47	1.75		10/26/21 21:02	95-47-6	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

QC Batch: 778802
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10583427001, 10583427002

METHOD BLANK: 4147768
Matrix: Air
Associated Lab Samples: 10583427001, 10583427002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.19	1.1	10/22/21 11:49	
1,1,2,2-Tetrachloroethane	ug/m3	<0.37	1.4	10/22/21 11:49	
1,1,2-Trichloroethane	ug/m3	<0.20	1.1	10/22/21 11:49	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.29	1.6	10/22/21 11:49	
1,1-Dichloroethane	ug/m3	<0.16	0.82	10/22/21 11:49	
1,1-Dichloroethene	ug/m3	<0.14	0.81	10/22/21 11:49	
1,2,4-Trichlorobenzene	ug/m3	<4.9	7.5	10/22/21 11:49	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	10/22/21 11:49	
1,2-Dibromoethane (EDB)	ug/m3	<0.30	1.6	10/22/21 11:49	
1,2-Dichlorobenzene	ug/m3	<0.40	3.1	10/22/21 11:49	
1,2-Dichloroethane	ug/m3	<0.19	0.82	10/22/21 11:49	
1,2-Dichloropropane	ug/m3	<0.27	0.94	10/22/21 11:49	
1,3,5-Trimethylbenzene	ug/m3	<0.29	1.0	10/22/21 11:49	
1,3-Butadiene	ug/m3	<0.12	0.45	10/22/21 11:49	
1,3-Dichlorobenzene	ug/m3	<0.51	3.1	10/22/21 11:49	
1,4-Dichlorobenzene	ug/m3	<0.88	3.1	10/22/21 11:49	
2-Butanone (MEK)	ug/m3	<0.46	3.0	10/22/21 11:49	
2-Hexanone	ug/m3	<0.44	4.2	10/22/21 11:49	
2-Propanol	ug/m3	<0.51	2.5	10/22/21 11:49	
4-Ethyltoluene	ug/m3	<0.47	2.5	10/22/21 11:49	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.32	4.2	10/22/21 11:49	
Acetone	ug/m3	<1.8	6.0	10/22/21 11:49	
Benzene	ug/m3	<0.11	0.65	10/22/21 11:49	
Benzyl chloride	ug/m3	<0.89	2.6	10/22/21 11:49	
Bromodichloromethane	ug/m3	<0.24	1.4	10/22/21 11:49	
Bromoform	ug/m3	<1.6	5.2	10/22/21 11:49	
Bromomethane	ug/m3	<0.15	0.79	10/22/21 11:49	
Carbon disulfide	ug/m3	<0.13	0.63	10/22/21 11:49	
Carbon tetrachloride	ug/m3	<0.28	1.3	10/22/21 11:49	
Chlorobenzene	ug/m3	<0.16	0.94	10/22/21 11:49	
Chloroethane	ug/m3	<0.22	0.54	10/22/21 11:49	
Chloroform	ug/m3	<0.18	0.99	10/22/21 11:49	
Chloromethane	ug/m3	<0.085	0.42	10/22/21 11:49	
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	10/22/21 11:49	
cis-1,3-Dichloropropene	ug/m3	<0.26	2.3	10/22/21 11:49	
Cyclohexane	ug/m3	<0.22	1.8	10/22/21 11:49	
Dibromochloromethane	ug/m3	<0.52	1.7	10/22/21 11:49	
Dichlorodifluoromethane	ug/m3	<0.19	1.0	10/22/21 11:49	
Dichlorotetrafluoroethane	ug/m3	<0.20	1.4	10/22/21 11:49	
Ethanol	ug/m3	<0.59	1.9	10/22/21 11:49	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

METHOD BLANK: 4147768 Matrix: Air
Associated Lab Samples: 10583427001, 10583427002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.13	0.73	10/22/21 11:49	
Ethylbenzene	ug/m3	<0.31	0.88	10/22/21 11:49	
Hexachloro-1,3-butadiene	ug/m3	<1.2	5.4	10/22/21 11:49	
m&p-Xylene	ug/m3	<0.64	1.8	10/22/21 11:49	
Methyl-tert-butyl ether	ug/m3	<0.13	3.7	10/22/21 11:49	
Methylene Chloride	ug/m3	<0.59	3.5	10/22/21 11:49	
n-Heptane	ug/m3	<0.18	0.83	10/22/21 11:49	
n-Hexane	ug/m3	<0.19	0.72	10/22/21 11:49	
Naphthalene	ug/m3	<2.2	2.7	10/22/21 11:49	
o-Xylene	ug/m3	<0.27	0.88	10/22/21 11:49	
Propylene	ug/m3	<0.13	0.88	10/22/21 11:49	
Styrene	ug/m3	<0.38	0.87	10/22/21 11:49	
Tetrachloroethene	ug/m3	<0.29	0.69	10/22/21 11:49	
Tetrahydrofuran	ug/m3	<0.18	0.60	10/22/21 11:49	
Toluene	ug/m3	<0.24	0.77	10/22/21 11:49	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	10/22/21 11:49	
trans-1,3-Dichloropropene	ug/m3	<0.54	2.3	10/22/21 11:49	
Trichloroethene	ug/m3	<0.20	1.1	10/22/21 11:49	
Trichlorofluoromethane	ug/m3	<0.23	2.9	10/22/21 11:49	
Vinyl acetate	ug/m3	<0.21	0.72	10/22/21 11:49	
Vinyl chloride	ug/m3	<0.087	0.26	10/22/21 11:49	

LABORATORY CONTROL SAMPLE: 4147769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	60.2	101	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	76.6	102	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	61.7	103	70-134	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	88.1	105	70-130	
1,1-Dichloroethane	ug/m3	43.9	44.9	102	70-133	
1,1-Dichloroethene	ug/m3	43.5	44.4	102	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	189	107	69-132	
1,2,4-Trimethylbenzene	ug/m3	54	55.6	103	70-142	
1,2-Dibromoethane (EDB)	ug/m3	82.5	84.1	102	70-138	
1,2-Dichlorobenzene	ug/m3	66.2	67.3	102	70-146	
1,2-Dichloroethane	ug/m3	44.4	44.8	101	70-132	
1,2-Dichloropropane	ug/m3	50.6	51.7	102	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.7	55.1	103	70-143	
1,3-Butadiene	ug/m3	24.2	22.6	93	70-136	
1,3-Dichlorobenzene	ug/m3	66.3	68.3	103	70-145	
1,4-Dichlorobenzene	ug/m3	66.3	68.2	103	70-140	
2-Butanone (MEK)	ug/m3	32.3	32.4	100	50-139	
2-Hexanone	ug/m3	44.8	45.4	101	70-148	
2-Propanol	ug/m3	149	150	101	67-135	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

LABORATORY CONTROL SAMPLE: 4147769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	56.0	104	70-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	44.6	99	70-139	
Acetone	ug/m3	128	126	99	64-130	
Benzene	ug/m3	34.8	34.9	100	70-131	
Benzyl chloride	ug/m3	57.6	58.8	102	70-130	
Bromodichloromethane	ug/m3	73.1	75.1	103	70-133	
Bromoform	ug/m3	114	121	106	70-137	
Bromomethane	ug/m3	42.5	41.9	99	64-134	
Carbon disulfide	ug/m3	34.4	43.1	125	70-131	
Carbon tetrachloride	ug/m3	69.4	70.9	102	70-131	
Chlorobenzene	ug/m3	50.2	49.2	98	70-130	
Chloroethane	ug/m3	28.8	27.3	95	69-141	
Chloroform	ug/m3	52.4	52.8	101	70-130	
Chloromethane	ug/m3	22.6	22.5	100	70-130	
cis-1,2-Dichloroethene	ug/m3	43.4	44.1	102	70-137	
cis-1,3-Dichloropropene	ug/m3	49.4	64.6	131	70-144	CH
Cyclohexane	ug/m3	37.4	38.9	104	70-137	
Dibromochloromethane	ug/m3	93.2	97.4	104	70-132	
Dichlorodifluoromethane	ug/m3	54.6	56.0	103	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	71.4	100	70-130	
Ethanol	ug/m3	124	122	98	63-133	
Ethyl acetate	ug/m3	38.9	37.8	97	70-136	
Ethylbenzene	ug/m3	47.8	47.0	98	70-142	
Hexachloro-1,3-butadiene	ug/m3	133	144	108	70-135	
m&p-Xylene	ug/m3	95.4	94.6	99	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	45.8	116	70-143	
Methylene Chloride	ug/m3	190	230	121	70-130	
n-Heptane	ug/m3	44.6	44.1	99	70-137	
n-Hexane	ug/m3	38	39.1	103	70-135	
Naphthalene	ug/m3	65.2	67.7	104	67-132	
o-Xylene	ug/m3	47.6	47.6	100	70-141	
Propylene	ug/m3	18.9	19.0	101	70-130	
Styrene	ug/m3	47	44.8	95	70-142	
Tetrachloroethene	ug/m3	73.4	72.2	98	70-130	
Tetrahydrofuran	ug/m3	32.1	31.3	98	70-136	
Toluene	ug/m3	41.6	41.3	99	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	44.5	102	70-130	
trans-1,3-Dichloropropene	ug/m3	50.5	50.2	99	70-145	
Trichloroethene	ug/m3	58.4	58.6	100	70-130	
Trichlorofluoromethane	ug/m3	62	60.4	97	69-135	
Vinyl acetate	ug/m3	46.4	46.2	100	70-146	
Vinyl chloride	ug/m3	28	26.6	95	70-137	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4148751

Parameter	Units	35669169002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.34U	<0.34		25	
1,1,2,2-Tetrachloroethane	ug/m3	0.68U	<0.68		25	
1,1,2-Trichloroethane	ug/m3	0.36U	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.53U	<0.53		25	
1,1-Dichloroethane	ug/m3	0.30U	<0.30		25	
1,1-Dichloroethene	ug/m3	0.25U	<0.25		25	
1,2,4-Trichlorobenzene	ug/m3	8.9U	<8.9		25	
1,2,4-Trimethylbenzene	ug/m3	0.65U	<0.65		25	
1,2-Dibromoethane (EDB)	ug/m3	0.55U	<0.55		25	
1,2-Dichlorobenzene	ug/m3	0.74U	<0.74		25	
1,2-Dichloroethane	ug/m3	0.36U	<0.36		25	
1,2-Dichloropropane	ug/m3	0.49U	<0.49		25	
1,3,5-Trimethylbenzene	ug/m3	0.53U	<0.53		25	
1,3-Butadiene	ug/m3	0.22U	<0.22		25	
1,3-Dichlorobenzene	ug/m3	0.93U	<0.93		25	
1,4-Dichlorobenzene	ug/m3	1.6U	<1.6		25	
2-Butanone (MEK)	ug/m3	1.1J	2.3J		25	
2-Hexanone	ug/m3	0.81U	<0.81		25	
2-Propanol	ug/m3	2.1J	2.0J		25	
4-Ethyltoluene	ug/m3	0.86U	<0.86		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.59U	<0.59		25	
Acetone	ug/m3	7.9J	10.2J		25	
Benzene	ug/m3	0.21U	<0.21		25	
Benzyl chloride	ug/m3	1.6U	<1.6		25	
Bromodichloromethane	ug/m3	0.43U	<0.43		25	
Bromoform	ug/m3	3.0U	<3.0		25	
Bromomethane	ug/m3	0.27U	<0.27		25	
Carbon disulfide	ug/m3	0.88J	0.93J		25	
Carbon tetrachloride	ug/m3	0.51U	<0.51		25	
Chlorobenzene	ug/m3	0.28U	<0.28		25	
Chloroethane	ug/m3	0.41U	<0.41		25	
Chloroform	ug/m3	0.33U	<0.33		25	
Chloromethane	ug/m3	0.16U	<0.16		25	
cis-1,2-Dichloroethene	ug/m3	0.36U	<0.36		25	
cis-1,3-Dichloropropene	ug/m3	0.47U	<0.47		25	
Cyclohexane	ug/m3	0.40U	<0.40		25	
Dibromochloromethane	ug/m3	0.94U	<0.94		25	
Dichlorodifluoromethane	ug/m3	0.34U	<0.34		25	
Dichlorotetrafluoroethane	ug/m3	0.37U	<0.37		25	
Ethanol	ug/m3	3.9	4.0	4	25	
Ethyl acetate	ug/m3	0.24U	<0.24		25	
Ethylbenzene	ug/m3	0.57U	<0.57		25	
Hexachloro-1,3-butadiene	ug/m3	2.3U	<2.3		25	
m&p-Xylene	ug/m3	1.2U	<1.2		25	
Methyl-tert-butyl ether	ug/m3	0.23U	<0.23		25	
Methylene Chloride	ug/m3	1.1U	<1.1		25	
n-Heptane	ug/m3	0.33U	<0.33		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4148751

Parameter	Units	35669169002 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.35U	<0.35		25	
Naphthalene	ug/m3	4.0U	<4.0		25	
o-Xylene	ug/m3	0.50U	<0.50		25	
Propylene	ug/m3	0.24U	<0.24		25	
Styrene	ug/m3	0.70U	<0.70		25	
Tetrachloroethene	ug/m3	0.53U	<0.53		25	
Tetrahydrofuran	ug/m3	0.33U	<0.33		25	
Toluene	ug/m3	0.56J	0.55J		25	
trans-1,2-Dichloroethene	ug/m3	0.31U	<0.31		25	
trans-1,3-Dichloropropene	ug/m3	1.0U	<1.0		25	
Trichloroethene	ug/m3	0.36U	<0.36		25	
Trichlorofluoromethane	ug/m3	1.7J	1.8J		25	
Vinyl acetate	ug/m3	0.38U	<0.38		25	
Vinyl chloride	ug/m3	0.16U	<0.16		25	

SAMPLE DUPLICATE: 4148752

Parameter	Units	35669169004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.34U	<0.34		25	
1,1,2,2-Tetrachloroethane	ug/m3	0.68U	<0.68		25	
1,1,2-Trichloroethane	ug/m3	0.36U	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	1.0J	<0.53		25	
1,1-Dichloroethane	ug/m3	0.30U	<0.30		25	
1,1-Dichloroethene	ug/m3	0.25U	<0.25		25	
1,2,4-Trichlorobenzene	ug/m3	8.9U	<8.9		25	
1,2,4-Trimethylbenzene	ug/m3	0.99J	1.0J		25	
1,2-Dibromoethane (EDB)	ug/m3	0.55U	<0.55		25	
1,2-Dichlorobenzene	ug/m3	0.74U	<0.74		25	
1,2-Dichloroethane	ug/m3	0.36U	<0.36		25	
1,2-Dichloropropane	ug/m3	0.49U	<0.49		25	
1,3,5-Trimethylbenzene	ug/m3	0.53U	<0.53		25	
1,3-Butadiene	ug/m3	5.0	5.6	11	25	
1,3-Dichlorobenzene	ug/m3	6.8	6.7	1	25	
1,4-Dichlorobenzene	ug/m3	1.6U	<1.6		25	
2-Butanone (MEK)	ug/m3	0.85U	<0.85		25	
2-Hexanone	ug/m3	1.8J	1.8J		25	
2-Propanol	ug/m3	7.4	7.5	1	25	
4-Ethyltoluene	ug/m3	0.86U	<0.86		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.77J	0.72J		25	
Acetone	ug/m3	62.8	55.9	12	25	
Benzene	ug/m3	0.21U	<0.21		25	
Benzyl chloride	ug/m3	1.6U	<1.6		25	
Bromodichloromethane	ug/m3	0.43U	<0.43		25	
Bromoform	ug/m3	3.0U	<3.0		25	
Bromomethane	ug/m3	0.27U	<0.27		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4148752

Parameter	Units	35669169004 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	5.5	5.8	6	25	
Carbon tetrachloride	ug/m3	0.51U	<0.51		25	
Chlorobenzene	ug/m3	0.28U	<0.28		25	
Chloroethane	ug/m3	0.41U	<0.41		25	
Chloroform	ug/m3	0.33U	<0.33		25	
Chloromethane	ug/m3	3.3	3.4	3	25	
cis-1,2-Dichloroethene	ug/m3	0.36U	<0.36		25	
cis-1,3-Dichloropropene	ug/m3	0.47U	<0.47		25	
Cyclohexane	ug/m3	0.40U	<0.40		25	
Dibromochloromethane	ug/m3	0.94U	<0.94		25	
Dichlorodifluoromethane	ug/m3	0.34U	<0.34		25	
Dichlorotetrafluoroethane	ug/m3	0.37U	<0.37		25	
Ethanol	ug/m3	13.1	9.6	31	25	R1
Ethyl acetate	ug/m3	0.24U	<0.24		25	
Ethylbenzene	ug/m3	0.57U	<0.57		25	
Hexachloro-1,3-butadiene	ug/m3	2.3U	<2.3		25	
m&p-Xylene	ug/m3	1.2U	<1.2		25	
Methyl-tert-butyl ether	ug/m3	0.23U	<0.23		25	
Methylene Chloride	ug/m3	1.1U	<1.1		25	
n-Heptane	ug/m3	1.1J	<0.33		25	
n-Hexane	ug/m3	0.35U	<0.35		25	
Naphthalene	ug/m3	4.0U	<4.0		25	
o-Xylene	ug/m3	0.50U	<0.50		25	
Propylene	ug/m3	0.24U	<0.24		25	
Styrene	ug/m3	1.1J	1.1J		25	
Tetrachloroethene	ug/m3	0.53U	<0.53		25	
Tetrahydrofuran	ug/m3	5.2	5.5	6	25	
Toluene	ug/m3	1.3J	1.3J		25	
trans-1,2-Dichloroethene	ug/m3	0.31U	<0.31		25	
trans-1,3-Dichloropropene	ug/m3	1.0U	<1.0		25	
Trichloroethene	ug/m3	0.36U	<0.36		25	
Trichlorofluoromethane	ug/m3	2.1J	2.0J		25	
Vinyl acetate	ug/m3	0.38U	<0.38		25	
Vinyl chloride	ug/m3	0.16U	<0.16		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

QC Batch: 778977
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10583427003

METHOD BLANK: 4149012
Matrix: Air
Associated Lab Samples: 10583427003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.093	0.56	10/24/21 12:53	
1,1,2,2-Tetrachloroethane	ug/m3	<0.19	0.70	10/24/21 12:53	
1,1,2-Trichloroethane	ug/m3	<0.098	0.55	10/24/21 12:53	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.14	0.78	10/24/21 12:53	MN
1,1-Dichloroethane	ug/m3	<0.082	0.41	10/24/21 12:53	
1,1-Dichloroethene	ug/m3	<0.069	0.40	10/24/21 12:53	
1,2,4-Trichlorobenzene	ug/m3	<2.4	3.8	10/24/21 12:53	
1,2,4-Trimethylbenzene	ug/m3	<0.18	0.50	10/24/21 12:53	
1,2-Dibromoethane (EDB)	ug/m3	<0.15	0.78	10/24/21 12:53	MN
1,2-Dichlorobenzene	ug/m3	<0.20	1.5	10/24/21 12:53	
1,2-Dichloroethane	ug/m3	<0.097	0.41	10/24/21 12:53	
1,2-Dichloropropane	ug/m3	<0.13	0.47	10/24/21 12:53	
1,3,5-Trimethylbenzene	ug/m3	<0.14	0.50	10/24/21 12:53	
1,3-Butadiene	ug/m3	<0.060	0.22	10/24/21 12:53	
1,3-Dichlorobenzene	ug/m3	<0.25	1.5	10/24/21 12:53	
1,4-Dichlorobenzene	ug/m3	<0.44	1.5	10/24/21 12:53	
2-Butanone (MEK)	ug/m3	<0.23	1.5	10/24/21 12:53	
2-Hexanone	ug/m3	<0.22	2.1	10/24/21 12:53	
2-Propanol	ug/m3	0.28J	1.2	10/24/21 12:53	
4-Ethyltoluene	ug/m3	<0.24	1.2	10/24/21 12:53	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.16	2.1	10/24/21 12:53	
Acetone	ug/m3	<0.90	3.0	10/24/21 12:53	
Benzene	ug/m3	<0.057	0.32	10/24/21 12:53	MN
Benzyl chloride	ug/m3	<0.44	1.3	10/24/21 12:53	
Bromodichloromethane	ug/m3	<0.12	0.68	10/24/21 12:53	
Bromoform	ug/m3	<0.81	2.6	10/24/21 12:53	
Bromomethane	ug/m3	<0.075	0.39	10/24/21 12:53	
Carbon disulfide	ug/m3	<0.064	0.32	10/24/21 12:53	
Carbon tetrachloride	ug/m3	<0.14	0.64	10/24/21 12:53	
Chlorobenzene	ug/m3	<0.078	0.47	10/24/21 12:53	
Chloroethane	ug/m3	<0.11	0.27	10/24/21 12:53	
Chloroform	ug/m3	<0.092	0.50	10/24/21 12:53	MN
Chloromethane	ug/m3	<0.043	0.21	10/24/21 12:53	
cis-1,2-Dichloroethene	ug/m3	<0.098	0.40	10/24/21 12:53	
cis-1,3-Dichloropropene	ug/m3	<0.13	1.2	10/24/21 12:53	
Cyclohexane	ug/m3	<0.11	0.88	10/24/21 12:53	
Dibromochloromethane	ug/m3	<0.26	0.86	10/24/21 12:53	
Dichlorodifluoromethane	ug/m3	<0.094	0.50	10/24/21 12:53	
Dichlorotetrafluoroethane	ug/m3	<0.10	0.71	10/24/21 12:53	
Ethanol	ug/m3	<0.30	0.96	10/24/21 12:53	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

METHOD BLANK: 4149012 Matrix: Air
Associated Lab Samples: 10583427003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.066	0.37	10/24/21 12:53	
Ethylbenzene	ug/m3	<0.15	0.44	10/24/21 12:53	
Hexachloro-1,3-butadiene	ug/m3	<0.62	2.7	10/24/21 12:53	
m&p-Xylene	ug/m3	<0.32	0.88	10/24/21 12:53	
Methyl-tert-butyl ether	ug/m3	<0.063	1.8	10/24/21 12:53	
Methylene Chloride	ug/m3	<0.30	1.8	10/24/21 12:53	
n-Heptane	ug/m3	<0.090	0.42	10/24/21 12:53	
n-Hexane	ug/m3	<0.096	0.36	10/24/21 12:53	
Naphthalene	ug/m3	<1.1	1.3	10/24/21 12:53	
o-Xylene	ug/m3	<0.14	0.44	10/24/21 12:53	
Propylene	ug/m3	<0.065	0.44	10/24/21 12:53	
Styrene	ug/m3	<0.19	0.43	10/24/21 12:53	
Tetrachloroethene	ug/m3	<0.15	0.34	10/24/21 12:53	
Tetrahydrofuran	ug/m3	<0.090	0.30	10/24/21 12:53	
Toluene	ug/m3	<0.12	0.38	10/24/21 12:53	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	10/24/21 12:53	
trans-1,3-Dichloropropene	ug/m3	<0.27	1.2	10/24/21 12:53	
Trichloroethene	ug/m3	<0.098	0.55	10/24/21 12:53	MN
Trichlorofluoromethane	ug/m3	<0.12	1.4	10/24/21 12:53	MN
Vinyl acetate	ug/m3	<0.10	0.36	10/24/21 12:53	
Vinyl chloride	ug/m3	<0.043	0.13	10/24/21 12:53	

LABORATORY CONTROL SAMPLE: 4149013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	69.6	117	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	89.7	119	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	70.5	118	70-134	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	97.0	116	70-130	
1,1-Dichloroethane	ug/m3	43.9	52.0	118	70-133	
1,1-Dichloroethene	ug/m3	43.5	49.0	113	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	213	120	69-132	
1,2,4-Trimethylbenzene	ug/m3	54	63.9	118	70-142	
1,2-Dibromoethane (EDB)	ug/m3	82.5	95.8	116	70-138	
1,2-Dichlorobenzene	ug/m3	66.2	76.2	115	70-146	
1,2-Dichloroethane	ug/m3	44.4	51.5	116	70-132	
1,2-Dichloropropane	ug/m3	50.6	59.3	117	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.7	63.7	119	70-143	
1,3-Butadiene	ug/m3	24.2	23.9	99	70-136	
1,3-Dichlorobenzene	ug/m3	66.3	78.2	118	70-145	
1,4-Dichlorobenzene	ug/m3	66.3	77.0	116	70-140	
2-Butanone (MEK)	ug/m3	32.3	37.1	115	50-139	
2-Hexanone	ug/m3	44.8	49.8	111	70-148	
2-Propanol	ug/m3	149	167	112	67-135	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

LABORATORY CONTROL SAMPLE: 4149013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	62.8	117	70-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	50.4	112	70-139	
Acetone	ug/m3	128	136	107	64-130	
Benzene	ug/m3	34.8	39.2	113	70-131	
Benzyl chloride	ug/m3	57.6	67.2	117	70-130	
Bromodichloromethane	ug/m3	73.1	85.9	117	70-133	
Bromoform	ug/m3	114	140	123	70-137	
Bromomethane	ug/m3	42.5	46.7	110	64-134	
Carbon disulfide	ug/m3	34.4	38.1	111	70-131	
Carbon tetrachloride	ug/m3	69.4	82.4	119	70-131	
Chlorobenzene	ug/m3	50.2	56.0	112	70-130	
Chloroethane	ug/m3	28.8	30.2	105	69-141	
Chloroform	ug/m3	52.4	61.8	118	70-130	
Chloromethane	ug/m3	22.6	23.8	106	70-130	
cis-1,2-Dichloroethene	ug/m3	43.4	50.8	117	70-137	
cis-1,3-Dichloropropene	ug/m3	49.4	74.7	151	70-144	CH,L1
Cyclohexane	ug/m3	37.4	43.8	117	70-137	
Dibromochloromethane	ug/m3	93.2	111	119	70-132	
Dichlorodifluoromethane	ug/m3	54.6	64.7	118	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	79.0	111	70-130	
Ethanol	ug/m3	124	134	108	63-133	
Ethyl acetate	ug/m3	38.9	43.5	112	70-136	
Ethylbenzene	ug/m3	47.8	54.4	114	70-142	
Hexachloro-1,3-butadiene	ug/m3	133	172	129	70-135	
m&p-Xylene	ug/m3	95.4	106	111	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	45.9	116	70-143	
Methylene Chloride	ug/m3	190	211	111	70-130	
n-Heptane	ug/m3	44.6	49.5	111	70-137	
n-Hexane	ug/m3	38	44.3	117	70-135	
Naphthalene	ug/m3	65.2	77.4	119	67-132	
o-Xylene	ug/m3	47.6	54.7	115	70-141	
Propylene	ug/m3	18.9	21.2	113	70-130	
Styrene	ug/m3	47	52.3	111	70-142	
Tetrachloroethene	ug/m3	73.4	80.4	109	70-130	
Tetrahydrofuran	ug/m3	32.1	35.0	109	70-136	
Toluene	ug/m3	41.6	47.3	114	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	41.6	96	70-130	
trans-1,3-Dichloropropene	ug/m3	50.5	56.8	112	70-145	
Trichloroethene	ug/m3	58.4	66.1	113	70-130	
Trichlorofluoromethane	ug/m3	62	69.1	111	69-135	
Vinyl acetate	ug/m3	46.4	47.1	102	70-146	
Vinyl chloride	ug/m3	28	28.0	100	70-137	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4149375

Parameter	Units	10583427003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.28	<0.28		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.29	<0.29		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	1.0J	1.1J		25	
1,1-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,1-Dichloroethene	ug/m3	<0.21	<0.21		25	
1,2,4-Trichlorobenzene	ug/m3	<7.3	<7.3		25	
1,2,4-Trimethylbenzene	ug/m3	<0.53	<0.53		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.45	<0.45		25	
1,2-Dichlorobenzene	ug/m3	<0.60	<0.60		25	
1,2-Dichloroethane	ug/m3	<0.29	<0.29		25	
1,2-Dichloropropane	ug/m3	<0.40	<0.40		25	
1,3,5-Trimethylbenzene	ug/m3	<0.43	<0.43		25	
1,3-Butadiene	ug/m3	<0.18	<0.18		25	
1,3-Dichlorobenzene	ug/m3	<0.76	<0.76		25	
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3		25	
2-Butanone (MEK)	ug/m3	2.8J	2.5J		25	
2-Hexanone	ug/m3	1.3J	0.74J		25	
2-Propanol	ug/m3	2.8J	2.9J		25	
4-Ethyltoluene	ug/m3	<0.70	<0.70		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.48	<0.48		25	
Acetone	ug/m3	11.2	11.7	4	25	
Benzene	ug/m3	0.29J	0.19J		25	
Benzyl chloride	ug/m3	<1.3	<1.3		25	
Bromodichloromethane	ug/m3	<0.35	<0.35		25	
Bromoform	ug/m3	<2.4	<2.4		25	
Bromomethane	ug/m3	<0.22	<0.22		25	
Carbon disulfide	ug/m3	<0.19	<0.19		25	
Carbon tetrachloride	ug/m3	0.57J	0.57J		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	<0.27	<0.27		25	
Chloromethane	ug/m3	0.91	0.92	0	25	
cis-1,2-Dichloroethene	ug/m3	<0.29	<0.29		25	
cis-1,3-Dichloropropene	ug/m3	<0.38	<0.38		25	
Cyclohexane	ug/m3	0.33J	<0.33		25	
Dibromochloromethane	ug/m3	<0.77	<0.77		25	
Dichlorodifluoromethane	ug/m3	6.3	87.1	173	25	R1
Dichlorotetrafluoroethane	ug/m3	<0.30	<0.30		25	
Ethanol	ug/m3	6.8	7.3	8	25	
Ethyl acetate	ug/m3	<0.20	<0.20		25	
Ethylbenzene	ug/m3	<0.46	<0.46		25	
Hexachloro-1,3-butadiene	ug/m3	<1.8	<1.8		25	
m&p-Xylene	ug/m3	<0.96	<0.96		25	
Methyl-tert-butyl ether	ug/m3	<0.19	<0.19		25	
Methylene Chloride	ug/m3	1.5J	1.4J		25	
n-Heptane	ug/m3	1.3	0.67J		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4149375

Parameter	Units	10583427003 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.50J	<0.28		25	
Naphthalene	ug/m3	<3.2	<3.2		25	
o-Xylene	ug/m3	<0.40	<0.40		25	
Propylene	ug/m3	0.70J	0.79J		25	
Styrene	ug/m3	<0.57	<0.57		25	
Tetrachloroethene	ug/m3	<0.44	<0.44		25	
Tetrahydrofuran	ug/m3	<0.27	<0.27		25	
Toluene	ug/m3	1.2	1.1J		25	
trans-1,2-Dichloroethene	ug/m3	<0.25	<0.25		25	
trans-1,3-Dichloropropene	ug/m3	<0.81	<0.81		25	
Trichloroethene	ug/m3	<0.29	<0.29		25	
Trichlorofluoromethane	ug/m3	2.7J	2.5J		25	
Vinyl acetate	ug/m3	<0.31	<0.31		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

SAMPLE DUPLICATE: 4149376

Parameter	Units	10584483035 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.26		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.52		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.28		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.99J		25	
1,1-Dichloroethane	ug/m3	ND	<0.23		25	
1,1-Dichloroethene	ug/m3	ND	<0.19		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<6.9		25	
1,2,4-Trimethylbenzene	ug/m3	ND	0.62J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.42		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.57		25	
1,2-Dichloroethane	ug/m3	ND	<0.27		25	
1,2-Dichloropropane	ug/m3	ND	<0.38		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.41		25	
1,3-Butadiene	ug/m3	ND	<0.17		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.72		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.2		25	
2-Butanone (MEK)	ug/m3	ND	<0.66		25	
2-Hexanone	ug/m3	ND	<0.62		25	
2-Propanol	ug/m3	4.3	4.1	4	25	
4-Ethyltoluene	ug/m3	ND	<0.67		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.45		25	
Acetone	ug/m3	ND	5.9J		25	
Benzene	ug/m3	ND	0.38J		25	
Benzyl chloride	ug/m3	ND	<1.3		25	
Bromodichloromethane	ug/m3	ND	<0.33		25	
Bromoform	ug/m3	ND	<2.3		25	
Bromomethane	ug/m3	ND	<0.21		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4149376

Parameter	Units	10584483035 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.18		25	
Carbon tetrachloride	ug/m3	ND	0.51J		25	
Chlorobenzene	ug/m3	ND	<0.22		25	
Chloroethane	ug/m3	ND	<0.32		25	
Chloroform	ug/m3	ND	<0.26		25	
Chloromethane	ug/m3	0.86	0.87	1	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.27		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.36		25	
Cyclohexane	ug/m3	ND	1.1J		25	
Dibromochloromethane	ug/m3	ND	<0.73		25	
Dichlorodifluoromethane	ug/m3	3.2	3.0	7	25	
Dichlorotetrafluoroethane	ug/m3	ND	0.45J		25	
Ethanol	ug/m3	7.2	6.7	6	25	
Ethyl acetate	ug/m3	ND	<0.18		25	
Ethylbenzene	ug/m3	ND	<0.44		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.7		25	
m&p-Xylene	ug/m3	ND	<0.91		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.18		25	
Methylene Chloride	ug/m3	ND	1.3J		25	
n-Heptane	ug/m3	ND	0.35J		25	
n-Hexane	ug/m3	ND	0.27J		25	
Naphthalene	ug/m3	ND	<3.1		25	
o-Xylene	ug/m3	ND	<0.38		25	
Propylene	ug/m3	ND	0.70J		25	
Styrene	ug/m3	ND	<0.54		25	
Tetrachloroethene	ug/m3	ND	<0.41		25	
Tetrahydrofuran	ug/m3	ND	<0.25		25	
Toluene	ug/m3	1.1	1.1	0	25	
trans-1,2-Dichloroethene	ug/m3	ND	0.90J		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.77		25	
Trichloroethene	ug/m3	ND	<0.28		25	
Trichlorofluoromethane	ug/m3	ND	2.3J		25	
Vinyl acetate	ug/m3	ND	<0.29		25	
Vinyl chloride	ug/m3	ND	<0.12		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

QC Batch: 779470
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10583427004

METHOD BLANK: 4151317
Matrix: Air
Associated Lab Samples: 10583427004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.19	1.1	10/26/21 09:01	
1,1,2,2-Tetrachloroethane	ug/m3	<0.37	1.4	10/26/21 09:01	
1,1,2-Trichloroethane	ug/m3	<0.20	0.56	10/26/21 09:01	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.29	1.6	10/26/21 09:01	
1,1-Dichloroethane	ug/m3	<0.16	0.82	10/26/21 09:01	
1,1-Dichloroethene	ug/m3	<0.14	0.81	10/26/21 09:01	
1,2,4-Trichlorobenzene	ug/m3	<4.9	7.5	10/26/21 09:01	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	10/26/21 09:01	
1,2-Dibromoethane (EDB)	ug/m3	<0.30	0.78	10/26/21 09:01	
1,2-Dichlorobenzene	ug/m3	<0.40	3.1	10/26/21 09:01	
1,2-Dichloroethane	ug/m3	<0.19	0.82	10/26/21 09:01	
1,2-Dichloropropane	ug/m3	<0.27	0.94	10/26/21 09:01	
1,3,5-Trimethylbenzene	ug/m3	<0.29	1.0	10/26/21 09:01	
1,3-Butadiene	ug/m3	<0.12	0.45	10/26/21 09:01	
1,3-Dichlorobenzene	ug/m3	<0.51	3.1	10/26/21 09:01	
1,4-Dichlorobenzene	ug/m3	<0.88	3.1	10/26/21 09:01	
2-Butanone (MEK)	ug/m3	<0.46	3.0	10/26/21 09:01	
2-Hexanone	ug/m3	<0.44	4.2	10/26/21 09:01	
2-Propanol	ug/m3	<0.51	2.5	10/26/21 09:01	
4-Ethyltoluene	ug/m3	<0.47	2.5	10/26/21 09:01	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.32	4.2	10/26/21 09:01	
Acetone	ug/m3	<1.8	6.0	10/26/21 09:01	
Benzene	ug/m3	<0.11	0.32	10/26/21 09:01	
Benzyl chloride	ug/m3	<0.89	2.6	10/26/21 09:01	
Bromodichloromethane	ug/m3	<0.24	1.4	10/26/21 09:01	
Bromoform	ug/m3	<1.6	5.2	10/26/21 09:01	
Bromomethane	ug/m3	<0.15	0.79	10/26/21 09:01	
Carbon disulfide	ug/m3	<0.13	0.63	10/26/21 09:01	
Carbon tetrachloride	ug/m3	<0.28	1.3	10/26/21 09:01	
Chlorobenzene	ug/m3	<0.16	0.94	10/26/21 09:01	
Chloroethane	ug/m3	<0.22	0.54	10/26/21 09:01	
Chloroform	ug/m3	<0.18	0.50	10/26/21 09:01	
Chloromethane	ug/m3	<0.085	0.42	10/26/21 09:01	
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	10/26/21 09:01	
cis-1,3-Dichloropropene	ug/m3	<0.26	2.3	10/26/21 09:01	
Cyclohexane	ug/m3	<0.22	1.8	10/26/21 09:01	
Dibromochloromethane	ug/m3	<0.52	1.7	10/26/21 09:01	
Dichlorodifluoromethane	ug/m3	<0.19	1.0	10/26/21 09:01	
Dichlorotetrafluoroethane	ug/m3	<0.20	1.4	10/26/21 09:01	
Ethanol	ug/m3	<0.59	1.9	10/26/21 09:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

METHOD BLANK: 4151317 Matrix: Air
Associated Lab Samples: 10583427004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.13	0.73	10/26/21 09:01	
Ethylbenzene	ug/m3	<0.31	0.88	10/26/21 09:01	
Hexachloro-1,3-butadiene	ug/m3	<1.2	5.4	10/26/21 09:01	
m&p-Xylene	ug/m3	<0.64	1.8	10/26/21 09:01	
Methyl-tert-butyl ether	ug/m3	<0.13	3.7	10/26/21 09:01	
Methylene Chloride	ug/m3	<0.59	3.5	10/26/21 09:01	
n-Heptane	ug/m3	<0.18	0.83	10/26/21 09:01	
n-Hexane	ug/m3	<0.19	0.72	10/26/21 09:01	
Naphthalene	ug/m3	<2.2	2.7	10/26/21 09:01	
o-Xylene	ug/m3	<0.27	0.88	10/26/21 09:01	
Propylene	ug/m3	<0.13	0.88	10/26/21 09:01	
Styrene	ug/m3	<0.38	0.87	10/26/21 09:01	
Tetrachloroethene	ug/m3	<0.29	0.69	10/26/21 09:01	
Tetrahydrofuran	ug/m3	<0.18	0.60	10/26/21 09:01	
Toluene	ug/m3	0.26J	0.77	10/26/21 09:01	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	10/26/21 09:01	
trans-1,3-Dichloropropene	ug/m3	<0.54	2.3	10/26/21 09:01	
Trichloroethene	ug/m3	<0.20	1.1	10/26/21 09:01	
Trichlorofluoromethane	ug/m3	<0.23	1.1	10/26/21 09:01	
Vinyl acetate	ug/m3	<0.21	0.72	10/26/21 09:01	
Vinyl chloride	ug/m3	<0.087	0.26	10/26/21 09:01	

LABORATORY CONTROL SAMPLE: 4151318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	61.7	104	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	85.3	113	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	63.3	106	70-134	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	82.9	99	70-130	
1,1-Dichloroethane	ug/m3	43.9	40.4	92	70-133	
1,1-Dichloroethene	ug/m3	43.5	42.5	98	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	199	112	69-132	
1,2,4-Trimethylbenzene	ug/m3	54	64.1	119	70-142	
1,2-Dibromoethane (EDB)	ug/m3	82.5	93.9	114	70-138	
1,2-Dichlorobenzene	ug/m3	66.2	79.5	120	70-146	
1,2-Dichloroethane	ug/m3	44.4	43.7	98	70-132	
1,2-Dichloropropane	ug/m3	50.6	50.2	99	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.7	63.5	118	70-143	
1,3-Butadiene	ug/m3	24.2	24.5	101	70-136	
1,3-Dichlorobenzene	ug/m3	66.3	79.7	120	70-145	
1,4-Dichlorobenzene	ug/m3	66.3	76.1	115	70-140	
2-Butanone (MEK)	ug/m3	32.3	28.5	88	50-139	
2-Hexanone	ug/m3	44.8	46.4	104	70-148	
2-Propanol	ug/m3	149	142	95	67-135	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

LABORATORY CONTROL SAMPLE: 4151318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	62.3	116	70-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	44.9	100	70-139	
Acetone	ug/m3	128	141	110	64-130	
Benzene	ug/m3	34.8	35.2	101	70-131	
Benzyl chloride	ug/m3	57.6	60.9	106	70-130	
Bromodichloromethane	ug/m3	73.1	82.2	112	70-133	
Bromoform	ug/m3	114	133	117	70-137	
Bromomethane	ug/m3	42.5	42.1	99	64-134	
Carbon disulfide	ug/m3	34.4	34.4	100	70-131	
Carbon tetrachloride	ug/m3	69.4	78.3	113	70-131	
Chlorobenzene	ug/m3	50.2	53.2	106	70-130	
Chloroethane	ug/m3	28.8	29.6	103	69-141	
Chloroform	ug/m3	52.4	52.1	99	70-130	
Chloromethane	ug/m3	22.6	26.1	116	70-130	
cis-1,2-Dichloroethene	ug/m3	43.4	42.7	98	70-137	
cis-1,3-Dichloropropene	ug/m3	49.4	56.2	114	70-144	
Cyclohexane	ug/m3	37.4	35.4	95	70-137	
Dibromochloromethane	ug/m3	93.2	108	116	70-132	
Dichlorodifluoromethane	ug/m3	54.6	54.3	99	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	75.2	106	70-130	
Ethanol	ug/m3	124	139	112	63-133	
Ethyl acetate	ug/m3	38.9	37.4	96	70-136	
Ethylbenzene	ug/m3	47.8	52.6	110	70-142	
Hexachloro-1,3-butadiene	ug/m3	133	167	126	70-135	
m&p-Xylene	ug/m3	95.4	108	114	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	38.2	96	70-143	
Methylene Chloride	ug/m3	190	175	92	70-130	
n-Heptane	ug/m3	44.6	44.6	100	70-137	
n-Hexane	ug/m3	38	38.4	101	70-135	
Naphthalene	ug/m3	65.2	74.5	114	67-132	
o-Xylene	ug/m3	47.6	54.8	115	70-141	
Propylene	ug/m3	18.9	17.5	93	70-130	
Styrene	ug/m3	47	52.7	112	70-142	
Tetrachloroethene	ug/m3	73.4	86.1	117	70-130	
Tetrahydrofuran	ug/m3	32.1	31.4	98	70-136	
Toluene	ug/m3	41.6	42.7	103	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	43.8	101	70-130	
trans-1,3-Dichloropropene	ug/m3	50.5	50.4	100	70-145	
Trichloroethene	ug/m3	58.4	57.4	98	70-130	
Trichlorofluoromethane	ug/m3	62	65.7	106	69-135	
Vinyl acetate	ug/m3	46.4	44.9	97	70-146	
Vinyl chloride	ug/m3	28	31.1	111	70-137	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4152518

Parameter	Units	10583427004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	3.1	3.2	1	25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.65	<0.65		25	
1,1,2-Trichloroethane	ug/m3	<0.34	<0.34		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	1.8J	1.8J		25	
1,1-Dichloroethane	ug/m3	<0.29	<0.29		25	
1,1-Dichloroethene	ug/m3	<0.24	<0.24		25	
1,2,4-Trichlorobenzene	ug/m3	<8.5	<8.5		25	
1,2,4-Trimethylbenzene	ug/m3	4.8	4.9	2	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.52	<0.52		25	
1,2-Dichlorobenzene	ug/m3	<0.71	<0.71		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	1.5J	1.6J		25	
1,3-Butadiene	ug/m3	<0.21	<0.21		25	
1,3-Dichlorobenzene	ug/m3	1.1J	1.1J		25	
1,4-Dichlorobenzene	ug/m3	<1.5	<1.5		25	
2-Butanone (MEK)	ug/m3	2.5J	2.3J		25	
2-Hexanone	ug/m3	1.1J	1.2J		25	
2-Propanol	ug/m3	11.9	12.8	7	25	
4-Ethyltoluene	ug/m3	2.1J	2.2J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.92J	0.99J		25	
Acetone	ug/m3	14.2	15.0	5	25	
Benzene	ug/m3	0.69	0.71	3	25	
Benzyl chloride	ug/m3	<1.6	<1.6		25	
Bromodichloromethane	ug/m3	<0.41	<0.41		25	
Bromoform	ug/m3	<2.8	<2.8		25	
Bromomethane	ug/m3	<0.26	<0.26		25	
Carbon disulfide	ug/m3	0.36J	0.37J		25	
Carbon tetrachloride	ug/m3	<0.49	<0.49		25	
Chlorobenzene	ug/m3	<0.27	<0.27		25	
Chloroethane	ug/m3	<0.39	<0.39		25	
Chloroform	ug/m3	<0.32	<0.32		25	
Chloromethane	ug/m3	0.52J	0.64J		25	
cis-1,2-Dichloroethene	ug/m3	<0.34	<0.34		25	
cis-1,3-Dichloropropene	ug/m3	<0.45	<0.45		25	
Cyclohexane	ug/m3	0.57J	0.66J		25	
Dibromochloromethane	ug/m3	<0.90	<0.90		25	
Dichlorodifluoromethane	ug/m3	3.1	3.1	1	25	
Dichlorotetrafluoroethane	ug/m3	<0.35	<0.35		25	
Ethanol	ug/m3	52.8	55.5	5	25	
Ethyl acetate	ug/m3	<0.23	<0.23		25	
Ethylbenzene	ug/m3	2.8	2.9	3	25	
Hexachloro-1,3-butadiene	ug/m3	<2.2	<2.2		25	
m&p-Xylene	ug/m3	10.1	10.5	5	25	
Methyl-tert-butyl ether	ug/m3	0.36J	0.36J		25	
Methylene Chloride	ug/m3	<1.0	<1.0		25	
n-Heptane	ug/m3	<0.32	1.3J		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.

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

QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4152518

Parameter	Units	10583427004 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.35J	0.40J		25	
Naphthalene	ug/m3	<3.8	3.8J		25	
o-Xylene	ug/m3	3.7	4.0	6	25	
Propylene	ug/m3	<0.23	<0.23		25	
Styrene	ug/m3	3.3	3.4	1	25	
Tetrachloroethene	ug/m3	1.6	1.7	7	25	
Tetrahydrofuran	ug/m3	<0.32	<0.32		25	
Toluene	ug/m3	8.4	8.8	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.29	<0.29		25	
trans-1,3-Dichloropropene	ug/m3	<0.95	<0.95		25	
Trichloroethene	ug/m3	1.1J	1.1J		25	
Trichlorofluoromethane	ug/m3	1.6J	1.8J		25	
Vinyl acetate	ug/m3	<0.36	<0.36		25	
Vinyl chloride	ug/m3	<0.15	<0.15		25	

SAMPLE DUPLICATE: 4152519

Parameter	Units	60382901003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.33		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.67		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	2.9	2.9	0	25	
1,1-Dichloroethane	ug/m3	ND	<0.30		25	
1,1-Dichloroethene	ug/m3	ND	<0.25		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<8.8		25	
1,2,4-Trimethylbenzene	ug/m3	23.7	23.2	2	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.54		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.73		25	
1,2-Dichloroethane	ug/m3	ND	0.68J		25	
1,2-Dichloropropane	ug/m3	ND	<0.48		25	
1,3,5-Trimethylbenzene	ug/m3	9.2	9.3	2	25	
1,3-Butadiene	ug/m3	ND	<0.22		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.92		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.6		25	
2-Butanone (MEK)	ug/m3	ND	4.9J		25	
2-Hexanone	ug/m3	ND	1.5J		25	
2-Propanol	ug/m3	14.4	<0.92		25	
4-Ethyltoluene	ug/m3	7.8	7.7	1	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2J		25	
Acetone	ug/m3	182	176	3	25	
Benzene	ug/m3	78.8	79.2	0	25	
Benzyl chloride	ug/m3	ND	<1.6		25	
Bromodichloromethane	ug/m3	ND	<0.43		25	
Bromoform	ug/m3	ND	<2.9		25	
Bromomethane	ug/m3	ND	<0.27		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4152519

Parameter	Units	60382901003 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	1.2		25	
Carbon tetrachloride	ug/m3	ND	<0.50		25	
Chlorobenzene	ug/m3	ND	<0.28		25	
Chloroethane	ug/m3	ND	<0.40		25	
Chloroform	ug/m3	ND	<0.33		25	
Chloromethane	ug/m3	ND	<0.15		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.35		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.46		25	
Cyclohexane	ug/m3	720	702	3	25	
Dibromochloromethane	ug/m3	ND	<0.93		25	
Dichlorodifluoromethane	ug/m3	5.5	4.9	12	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.36		25	
Ethanol	ug/m3	138	139	1	25	
Ethyl acetate	ug/m3	5.6	6.4	13	25	
Ethylbenzene	ug/m3	17.9	18.5	3	25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.2		25	
m&p-Xylene	ug/m3	161	159	2	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.23		25	
Methylene Chloride	ug/m3	ND	1.1J		25	
n-Heptane	ug/m3	15.6	16.9	8	25	
n-Hexane	ug/m3	338	327	3	25	
Naphthalene	ug/m3	ND	<3.9		25	
o-Xylene	ug/m3	53.5	52.2	3	25	
Propylene	ug/m3	ND	<0.23		25	
Styrene	ug/m3	ND	1.4J		25	
Tetrachloroethene	ug/m3	ND	0.99J		25	
Tetrahydrofuran	ug/m3	ND	<0.32		25	
Toluene	ug/m3	237	232	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.30		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.98		25	
Trichloroethene	ug/m3	ND	0.45J		25	
Trichlorofluoromethane	ug/m3	2.6	2.3	10	25	
Vinyl acetate	ug/m3	ND	<0.37		25	
Vinyl chloride	ug/m3	ND	<0.16		25	

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(612)607-1700

QUALIFIERS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

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.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10583427001	**IA-B-208 South**	TO-15	778802		
10583427002	**IA-G-208 South**	TO-15	778802		
10583427003	**OA-208 South**	TO-15	778977		
10583427004	**SG-208 South**	TO-15	779470		

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WO# : 10583427

10583427

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant i

49726

Page: 1 of 1

Section A Required Client Information:

Company: Tetra Tech
Address: 175 N. Corporate Dr., Ste. 100 Brookfield, WI 53045
Email To: mark.manthey@tetratech.com
Phone: (262) 792-1282 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mark Manthey
Copy To:
Purchase Order No.:
Project Name: City of West Bend
Project Number: 117-1321006.305

Section C Invoice Information:

Attention: Mark Manthey
Company Name: Tetra Tech
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 33689

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___

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 #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	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	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	IA-B-208 South	6LC		10/12/21	9:11	10/13/21	9:11	30	5	0284	1772					X					001
2	IA-G-208 South	6LC		10/12/21	9:10	10/13/21	9:10	27	3	1653	1076					X					002
3	OA-208 South	6LC		10/12/21	9:16	10/13/21	9:16	29	5	2129	1777					X					003
4	SG-208 South	6LC		10/14/21	9:26	10/14/21	9:56	29	7	1736	1694					X					004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Connor Lawson / Tetra Tech	10/14/21	12:00	[illegible] Pace	10/15/21	11:10

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Connor Lawson

SIGNATURE of SAMPLER: Connor Lawson DATE Signed (MM / DD / YY) 10/14/21

ORIGINAL

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - Air**	Document Revised: 13Oct2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0113 Rev.01**	

WO#: 10583427

Air Sample Condition Upon Receipt

Client Name: tetra tech

Project #:

PM: MR2 **Due Date: 10/22/21**

CLIENT: TetraTech-WI

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 9753 8446 2654 ☐ See Exception

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other:

Date & Initials of Person Examining Contents: RG 10/15/21

				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-15 or APH)** -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes	☐ No		10.
Media: Air Can Airbag				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 ☒ 10AIR17 ☐ 10AIR47 ☐ 10AIR48

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IA-B	284	1772	-3	+5					
" -G	1653	1076	-4	"					
OA	2129	1777	-3	"					
SG	1736	1694	-7	"					

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

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Matt Ray **Date:** 10/15/21

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

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

October 27, 2021

Mr. Mark Manthey
Tetra Tech
175 N. Corporate Dr.
Suite 100
Brookfield, WI 53045

RE: Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Dear Mr. Manthey:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2021. 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,

Matt Ray
matt.ray@pacelabs.com
(612)607-1700
Project Manager

Enclosures

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CERTIFICATIONS

Project:	117-1371006.305 City of West B
Pace Project No.:	10583427

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
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
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
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 #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 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 (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
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
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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SAMPLE SUMMARY

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10583427001	**IA-B-208 South**	Air	10/13/21 09:11	10/15/21 11:10
10583427002	**IA-G-208 South**	Air	10/13/21 09:10	10/15/21 11:10
10583427003	**OA-208 South**	Air	10/13/21 09:16	10/15/21 11:10
10583427004	**SG-208 South**	Air	10/13/21 09:56	10/15/21 11:10

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SAMPLE ANALYTE COUNT

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10583427001	**IA-B-208 South**	TO-15	HMH	61	PASI-M
10583427002	**IA-G-208 South**	TO-15	HMH	61	PASI-M
10583427003	**OA-208 South**	TO-15	HMH	61	PASI-M
10583427004	**SG-208 South**	TO-15	GT	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: IA-B-208 South **Lab ID: 10583427001** Collected: 10/13/21 09:11 Received: 10/15/21 11:10 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	**130**	ug/m3	9.0	2.7	1.49		10/23/21 03:09	67-64-1	
Benzene	**0.74J**	ug/m3	0.97	0.17	1.49		10/23/21 03:09	71-43-2	
Benzyl chloride	**<1.3**	ug/m3	3.9	1.3	1.49		10/23/21 03:09	100-44-7	
Bromodichloromethane	**<0.35**	ug/m3	2.0	0.35	1.49		10/23/21 03:09	75-27-4	
Bromoform	**<2.4**	ug/m3	7.8	2.4	1.49		10/23/21 03:09	75-25-2	
Bromomethane	**<0.22**	ug/m3	1.2	0.22	1.49		10/23/21 03:09	74-83-9	
1,3-Butadiene	**<0.18**	ug/m3	0.67	0.18	1.49		10/23/21 03:09	106-99-0	
2-Butanone (MEK)	**5.4**	ug/m3	4.5	0.69	1.49		10/23/21 03:09	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	0.94	0.19	1.49		10/23/21 03:09	75-15-0	
Carbon tetrachloride	**0.63J**	ug/m3	1.9	0.42	1.49		10/23/21 03:09	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.4	0.23	1.49		10/23/21 03:09	108-90-7	
Chloroethane	**<0.33**	ug/m3	0.80	0.33	1.49		10/23/21 03:09	75-00-3	
Chloroform	**<0.27**	ug/m3	1.5	0.27	1.49		10/23/21 03:09	67-66-3	
Chloromethane	**0.99**	ug/m3	0.63	0.13	1.49		10/23/21 03:09	74-87-3	
Cyclohexane	**1.9J**	ug/m3	2.6	0.33	1.49		10/23/21 03:09	110-82-7	
Dibromochloromethane	**<0.77**	ug/m3	2.6	0.77	1.49		10/23/21 03:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.45**	ug/m3	2.3	0.45	1.49		10/23/21 03:09	106-93-4	
1,2-Dichlorobenzene	**<0.60**	ug/m3	4.6	0.60	1.49		10/23/21 03:09	95-50-1	
1,3-Dichlorobenzene	**<0.76**	ug/m3	4.6	0.76	1.49		10/23/21 03:09	541-73-1	
1,4-Dichlorobenzene	**<1.3**	ug/m3	4.6	1.3	1.49		10/23/21 03:09	106-46-7	
Dichlorodifluoromethane	**3.2**	ug/m3	1.5	0.28	1.49		10/23/21 03:09	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.2	0.25	1.49		10/23/21 03:09	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	1.2	0.29	1.49		10/23/21 03:09	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.49		10/23/21 03:09	75-35-4	
cis-1,2-Dichloroethene	**<0.29**	ug/m3	1.2	0.29	1.49		10/23/21 03:09	156-59-2	
trans-1,2-Dichloroethene	**<0.25**	ug/m3	1.2	0.25	1.49		10/23/21 03:09	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.4	0.40	1.49		10/23/21 03:09	78-87-5	
cis-1,3-Dichloropropene	**<0.38**	ug/m3	3.4	0.38	1.49		10/23/21 03:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	3.4	0.81	1.49		10/23/21 03:09	10061-02-6	
Dichlorotetrafluoroethane	**0.46J**	ug/m3	2.1	0.30	1.49		10/23/21 03:09	76-14-2	
Ethanol	**150**	ug/m3	2.9	0.88	1.49		10/23/21 03:09	64-17-5	
Ethyl acetate	**1.7**	ug/m3	1.1	0.20	1.49		10/23/21 03:09	141-78-6	
Ethylbenzene	**0.68J**	ug/m3	1.3	0.46	1.49		10/23/21 03:09	100-41-4	
4-Ethyltoluene	**<0.70**	ug/m3	3.7	0.70	1.49		10/23/21 03:09	622-96-8	
n-Heptane	**2.2**	ug/m3	1.2	0.27	1.49		10/23/21 03:09	142-82-5	
Hexachloro-1,3-butadiene	**<1.8**	ug/m3	8.1	1.8	1.49		10/23/21 03:09	87-68-3	
n-Hexane	**1.4**	ug/m3	1.1	0.28	1.49		10/23/21 03:09	110-54-3	
2-Hexanone	**1.0J**	ug/m3	6.2	0.66	1.49		10/23/21 03:09	591-78-6	
Methylene Chloride	**1.5J**	ug/m3	5.3	0.88	1.49		10/23/21 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.2J**	ug/m3	6.2	0.48	1.49		10/23/21 03:09	108-10-1	
Methyl-tert-butyl ether	**<0.19**	ug/m3	5.5	0.19	1.49		10/23/21 03:09	1634-04-4	
Naphthalene	**<3.2**	ug/m3	4.0	3.2	1.49		10/23/21 03:09	91-20-3	
2-Propanol	**205**	ug/m3	3.7	0.76	1.49		10/23/21 03:09	67-63-0	
Propylene	**1.0J**	ug/m3	1.3	0.19	1.49		10/23/21 03:09	115-07-1	
Styrene	**0.95J**	ug/m3	1.3	0.57	1.49		10/23/21 03:09	100-42-5	

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ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: IA-B-208 South **Lab ID: 10583427001** Collected: 10/13/21 09:11 Received: 10/15/21 11:10 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	**<0.55**	ug/m3	2.1	0.55	1.49		10/23/21 03:09	79-34-5	
Tetrachloroethene	**<0.44**	ug/m3	1.0	0.44	1.49		10/23/21 03:09	127-18-4	
Tetrahydrofuran	**2.1**	ug/m3	0.89	0.27	1.49		10/23/21 03:09	109-99-9	
Toluene	**7.8**	ug/m3	1.1	0.36	1.49		10/23/21 03:09	108-88-3	
1,2,4-Trichlorobenzene	**<7.3**	ug/m3	11.2	7.3	1.49		10/23/21 03:09	120-82-1	
1,1,1-Trichloroethane	**<0.28**	ug/m3	1.7	0.28	1.49		10/23/21 03:09	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/m3	1.7	0.29	1.49		10/23/21 03:09	79-00-5	
Trichloroethene	**<0.29**	ug/m3	1.6	0.29	1.49		10/23/21 03:09	79-01-6	
Trichlorofluoromethane	**2.4J**	ug/m3	4.3	0.35	1.49		10/23/21 03:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.1J**	ug/m3	2.3	0.43	1.49		10/23/21 03:09	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.5	0.53	1.49		10/23/21 03:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.43**	ug/m3	1.5	0.43	1.49		10/23/21 03:09	108-67-8	
Vinyl acetate	**<0.31**	ug/m3	1.1	0.31	1.49		10/23/21 03:09	108-05-4	
Vinyl chloride	**<0.13**	ug/m3	0.39	0.13	1.49		10/23/21 03:09	75-01-4	
m&p-Xylene	**2.5J**	ug/m3	2.6	0.96	1.49		10/23/21 03:09	179601-23-1	
o-Xylene	**0.93J**	ug/m3	1.3	0.40	1.49		10/23/21 03:09	95-47-6	

Sample: IA-G-208 South **Lab ID: 10583427002** Collected: 10/13/21 09:10 Received: 10/15/21 11:10 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	**179**	ug/m3	9.4	2.8	1.55		10/23/21 03:50	67-64-1	
Benzene	**0.75J**	ug/m3	1.0	0.18	1.55		10/23/21 03:50	71-43-2	
Benzyl chloride	**<1.4**	ug/m3	4.1	1.4	1.55		10/23/21 03:50	100-44-7	
Bromodichloromethane	**0.64J**	ug/m3	2.1	0.37	1.55		10/23/21 03:50	75-27-4	
Bromoform	**<2.5**	ug/m3	8.1	2.5	1.55		10/23/21 03:50	75-25-2	
Bromomethane	**<0.23**	ug/m3	1.2	0.23	1.55		10/23/21 03:50	74-83-9	
1,3-Butadiene	**<0.19**	ug/m3	0.70	0.19	1.55		10/23/21 03:50	106-99-0	
2-Butanone (MEK)	**6.9**	ug/m3	4.6	0.72	1.55		10/23/21 03:50	78-93-3	
Carbon disulfide	**3.5**	ug/m3	0.98	0.20	1.55		10/23/21 03:50	75-15-0	
Carbon tetrachloride	**0.74J**	ug/m3	2.0	0.43	1.55		10/23/21 03:50	56-23-5	
Chlorobenzene	**<0.24**	ug/m3	1.5	0.24	1.55		10/23/21 03:50	108-90-7	
Chloroethane	**<0.35**	ug/m3	0.83	0.35	1.55		10/23/21 03:50	75-00-3	
Chloroform	**<0.28**	ug/m3	1.5	0.28	1.55		10/23/21 03:50	67-66-3	
Chloromethane	**<0.13**	ug/m3	0.65	0.13	1.55		10/23/21 03:50	74-87-3	
Cyclohexane	**1.5J**	ug/m3	2.7	0.34	1.55		10/23/21 03:50	110-82-7	
Dibromochloromethane	**0.93J**	ug/m3	2.7	0.80	1.55		10/23/21 03:50	124-48-1	
1,2-Dibromoethane (EDB)	**<0.46**	ug/m3	2.4	0.46	1.55		10/23/21 03:50	106-93-4	
1,2-Dichlorobenzene	**<0.63**	ug/m3	4.7	0.63	1.55		10/23/21 03:50	95-50-1	
1,3-Dichlorobenzene	**<0.79**	ug/m3	4.7	0.79	1.55		10/23/21 03:50	541-73-1	
1,4-Dichlorobenzene	**<1.4**	ug/m3	4.7	1.4	1.55		10/23/21 03:50	106-46-7	

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ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: IA-G-208 South **Lab ID: 10583427002** Collected: 10/13/21 09:10 Received: 10/15/21 11:10 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	**2.9**	ug/m3	1.6	0.29	1.55		10/23/21 03:50	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.3	0.26	1.55		10/23/21 03:50	75-34-3	
1,2-Dichloroethane	**1.1J**	ug/m3	1.3	0.30	1.55		10/23/21 03:50	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.55		10/23/21 03:50	75-35-4	
cis-1,2-Dichloroethene	**<0.30**	ug/m3	1.2	0.30	1.55		10/23/21 03:50	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/m3	1.2	0.26	1.55		10/23/21 03:50	156-60-5	
1,2-Dichloropropane	**<0.42**	ug/m3	1.5	0.42	1.55		10/23/21 03:50	78-87-5	
cis-1,3-Dichloropropene	**<0.40**	ug/m3	3.6	0.40	1.55		10/23/21 03:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	3.6	0.84	1.55		10/23/21 03:50	10061-02-6	
Dichlorotetrafluoroethane	**<0.31**	ug/m3	2.2	0.31	1.55		10/23/21 03:50	76-14-2	
Ethanol	**1930**	ug/m3	3.0	0.92	1.55		10/23/21 03:50	64-17-5	E
Ethyl acetate	**25.0**	ug/m3	1.1	0.20	1.55		10/23/21 03:50	141-78-6	
Ethylbenzene	**1.8**	ug/m3	1.4	0.48	1.55		10/23/21 03:50	100-41-4	
4-Ethyltoluene	**0.95J**	ug/m3	3.9	0.73	1.55		10/23/21 03:50	622-96-8	
n-Heptane	**4.5**	ug/m3	1.3	0.28	1.55		10/23/21 03:50	142-82-5	
Hexachloro-1,3-butadiene	**<1.9**	ug/m3	8.4	1.9	1.55		10/23/21 03:50	87-68-3	
n-Hexane	**1.6**	ug/m3	1.1	0.30	1.55		10/23/21 03:50	110-54-3	
2-Hexanone	**1.4J**	ug/m3	6.4	0.69	1.55		10/23/21 03:50	591-78-6	
Methylene Chloride	**1.6J**	ug/m3	5.5	0.92	1.55		10/23/21 03:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.6J**	ug/m3	6.4	0.50	1.55		10/23/21 03:50	108-10-1	
Methyl-tert-butyl ether	**<0.20**	ug/m3	5.7	0.20	1.55		10/23/21 03:50	1634-04-4	
Naphthalene	**<3.4**	ug/m3	4.1	3.4	1.55		10/23/21 03:50	91-20-3	
2-Propanol	**720**	ug/m3	3.9	0.79	1.55		10/23/21 03:50	67-63-0	E
Propylene	**29.3**	ug/m3	1.4	0.20	1.55		10/23/21 03:50	115-07-1	
Styrene	**2.3**	ug/m3	1.3	0.60	1.55		10/23/21 03:50	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.2	0.58	1.55		10/23/21 03:50	79-34-5	
Tetrachloroethene	**0.62J**	ug/m3	1.1	0.45	1.55		10/23/21 03:50	127-18-4	
Tetrahydrofuran	**1.8**	ug/m3	0.93	0.28	1.55		10/23/21 03:50	109-99-9	
Toluene	**9.5**	ug/m3	1.2	0.38	1.55		10/23/21 03:50	108-88-3	
1,2,4-Trichlorobenzene	**<7.6**	ug/m3	11.7	7.6	1.55		10/23/21 03:50	120-82-1	
1,1,1-Trichloroethane	**<0.29**	ug/m3	1.7	0.29	1.55		10/23/21 03:50	71-55-6	
1,1,2-Trichloroethane	**<0.31**	ug/m3	1.7	0.31	1.55		10/23/21 03:50	79-00-5	
Trichloroethene	**<0.30**	ug/m3	1.7	0.30	1.55		10/23/21 03:50	79-01-6	
Trichlorofluoromethane	**2.4J**	ug/m3	4.4	0.36	1.55		10/23/21 03:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.0J**	ug/m3	2.4	0.45	1.55		10/23/21 03:50	76-13-1	
1,2,4-Trimethylbenzene	**2.4**	ug/m3	1.5	0.55	1.55		10/23/21 03:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.45**	ug/m3	1.5	0.45	1.55		10/23/21 03:50	108-67-8	
Vinyl acetate	**<0.32**	ug/m3	1.1	0.32	1.55		10/23/21 03:50	108-05-4	
Vinyl chloride	**<0.13**	ug/m3	0.40	0.13	1.55		10/23/21 03:50	75-01-4	
m&p-Xylene	**3.2**	ug/m3	2.7	1.0	1.55		10/23/21 03:50	179601-23-1	
o-Xylene	**1.3J**	ug/m3	1.4	0.42	1.55		10/23/21 03:50	95-47-6	

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ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: OA-208 South **Lab ID: 10583427003** Collected: 10/13/21 09:16 Received: 10/15/21 11:10 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	**11.2**	ug/m3	9.0	2.7	1.49		10/24/21 21:40	67-64-1	
Benzene	**0.29J**	ug/m3	0.97	0.17	1.49		10/24/21 21:40	71-43-2	
Benzyl chloride	**<1.3**	ug/m3	3.9	1.3	1.49		10/24/21 21:40	100-44-7	
Bromodichloromethane	**<0.35**	ug/m3	2.0	0.35	1.49		10/24/21 21:40	75-27-4	
Bromoform	**<2.4**	ug/m3	7.8	2.4	1.49		10/24/21 21:40	75-25-2	
Bromomethane	**<0.22**	ug/m3	1.2	0.22	1.49		10/24/21 21:40	74-83-9	
1,3-Butadiene	**<0.18**	ug/m3	0.67	0.18	1.49		10/24/21 21:40	106-99-0	
2-Butanone (MEK)	**2.8J**	ug/m3	4.5	0.69	1.49		10/24/21 21:40	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	0.94	0.19	1.49		10/24/21 21:40	75-15-0	
Carbon tetrachloride	**0.57J**	ug/m3	1.9	0.42	1.49		10/24/21 21:40	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.4	0.23	1.49		10/24/21 21:40	108-90-7	
Chloroethane	**<0.33**	ug/m3	0.80	0.33	1.49		10/24/21 21:40	75-00-3	
Chloroform	**<0.27**	ug/m3	1.5	0.27	1.49		10/24/21 21:40	67-66-3	
Chloromethane	**0.91**	ug/m3	0.63	0.13	1.49		10/24/21 21:40	74-87-3	
Cyclohexane	**0.33J**	ug/m3	2.6	0.33	1.49		10/24/21 21:40	110-82-7	
Dibromochloromethane	**<0.77**	ug/m3	2.6	0.77	1.49		10/24/21 21:40	124-48-1	
1,2-Dibromoethane (EDB)	**<0.45**	ug/m3	2.3	0.45	1.49		10/24/21 21:40	106-93-4	
1,2-Dichlorobenzene	**<0.60**	ug/m3	4.6	0.60	1.49		10/24/21 21:40	95-50-1	
1,3-Dichlorobenzene	**<0.76**	ug/m3	4.6	0.76	1.49		10/24/21 21:40	541-73-1	
1,4-Dichlorobenzene	**<1.3**	ug/m3	4.6	1.3	1.49		10/24/21 21:40	106-46-7	
Dichlorodifluoromethane	**6.3**	ug/m3	1.5	0.28	1.49		10/24/21 21:40	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.2	0.25	1.49		10/24/21 21:40	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	1.2	0.29	1.49		10/24/21 21:40	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.49		10/24/21 21:40	75-35-4	
cis-1,2-Dichloroethene	**<0.29**	ug/m3	1.2	0.29	1.49		10/24/21 21:40	156-59-2	
trans-1,2-Dichloroethene	**<0.25**	ug/m3	1.2	0.25	1.49		10/24/21 21:40	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.4	0.40	1.49		10/24/21 21:40	78-87-5	
cis-1,3-Dichloropropene	**<0.38**	ug/m3	3.4	0.38	1.49		10/24/21 21:40	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	3.4	0.81	1.49		10/24/21 21:40	10061-02-6	
Dichlorotetrafluoroethane	**<0.30**	ug/m3	2.1	0.30	1.49		10/24/21 21:40	76-14-2	
Ethanol	**6.8**	ug/m3	2.9	0.88	1.49		10/24/21 21:40	64-17-5	
Ethyl acetate	**<0.20**	ug/m3	1.1	0.20	1.49		10/24/21 21:40	141-78-6	
Ethylbenzene	**<0.46**	ug/m3	1.3	0.46	1.49		10/24/21 21:40	100-41-4	
4-Ethyltoluene	**<0.70**	ug/m3	3.7	0.70	1.49		10/24/21 21:40	622-96-8	
n-Heptane	**1.3**	ug/m3	1.2	0.27	1.49		10/24/21 21:40	142-82-5	
Hexachloro-1,3-butadiene	**<1.8**	ug/m3	8.1	1.8	1.49		10/24/21 21:40	87-68-3	
n-Hexane	**0.50J**	ug/m3	1.1	0.28	1.49		10/24/21 21:40	110-54-3	
2-Hexanone	**1.3J**	ug/m3	6.2	0.66	1.49		10/24/21 21:40	591-78-6	
Methylene Chloride	**1.5J**	ug/m3	5.3	0.88	1.49		10/24/21 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.48**	ug/m3	6.2	0.48	1.49		10/24/21 21:40	108-10-1	
Methyl-tert-butyl ether	**<0.19**	ug/m3	5.5	0.19	1.49		10/24/21 21:40	1634-04-4	
Naphthalene	**<3.2**	ug/m3	4.0	3.2	1.49		10/24/21 21:40	91-20-3	
2-Propanol	**2.8J**	ug/m3	3.7	0.76	1.49		10/24/21 21:40	67-63-0	
Propylene	**0.70J**	ug/m3	1.3	0.19	1.49		10/24/21 21:40	115-07-1	
Styrene	**<0.57**	ug/m3	1.3	0.57	1.49		10/24/21 21:40	100-42-5	

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ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: OA-208 South **Lab ID: 10583427003** Collected: 10/13/21 09:16 Received: 10/15/21 11:10 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	**<0.55**	ug/m3	2.1	0.55	1.49		10/24/21 21:40	79-34-5	
Tetrachloroethene	**<0.44**	ug/m3	1.0	0.44	1.49		10/24/21 21:40	127-18-4	
Tetrahydrofuran	**<0.27**	ug/m3	0.89	0.27	1.49		10/24/21 21:40	109-99-9	
Toluene	**1.2**	ug/m3	1.1	0.36	1.49		10/24/21 21:40	108-88-3	
1,2,4-Trichlorobenzene	**<7.3**	ug/m3	11.2	7.3	1.49		10/24/21 21:40	120-82-1	
1,1,1-Trichloroethane	**<0.28**	ug/m3	1.7	0.28	1.49		10/24/21 21:40	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/m3	1.7	0.29	1.49		10/24/21 21:40	79-00-5	
Trichloroethene	**<0.29**	ug/m3	1.6	0.29	1.49		10/24/21 21:40	79-01-6	
Trichlorofluoromethane	**2.7J**	ug/m3	4.3	0.35	1.49		10/24/21 21:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.0J**	ug/m3	2.3	0.43	1.49		10/24/21 21:40	76-13-1	
1,2,4-Trimethylbenzene	**<0.53**	ug/m3	1.5	0.53	1.49		10/24/21 21:40	95-63-6	
1,3,5-Trimethylbenzene	**<0.43**	ug/m3	1.5	0.43	1.49		10/24/21 21:40	108-67-8	
Vinyl acetate	**<0.31**	ug/m3	1.1	0.31	1.49		10/24/21 21:40	108-05-4	
Vinyl chloride	**<0.13**	ug/m3	0.39	0.13	1.49		10/24/21 21:40	75-01-4	
m&p-Xylene	**<0.96**	ug/m3	2.6	0.96	1.49		10/24/21 21:40	179601-23-1	
o-Xylene	**<0.40**	ug/m3	1.3	0.40	1.49		10/24/21 21:40	95-47-6	

Sample: SG-208 South **Lab ID: 10583427004** Collected: 10/13/21 09:56 Received: 10/15/21 11:10 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	**14.2**	ug/m3	10.6	3.2	1.75		10/26/21 21:02	67-64-1	
Benzene	**0.69**	ug/m3	0.57	0.20	1.75		10/26/21 21:02	71-43-2	
Benzyl chloride	**<1.6**	ug/m3	4.6	1.6	1.75		10/26/21 21:02	100-44-7	
Bromodichloromethane	**<0.41**	ug/m3	2.4	0.41	1.75		10/26/21 21:02	75-27-4	
Bromoform	**<2.8**	ug/m3	9.2	2.8	1.75		10/26/21 21:02	75-25-2	
Bromomethane	**<0.26**	ug/m3	1.4	0.26	1.75		10/26/21 21:02	74-83-9	
1,3-Butadiene	**<0.21**	ug/m3	0.79	0.21	1.75		10/26/21 21:02	106-99-0	
2-Butanone (MEK)	**2.5J**	ug/m3	5.2	0.81	1.75		10/26/21 21:02	78-93-3	
Carbon disulfide	**0.36J**	ug/m3	1.1	0.23	1.75		10/26/21 21:02	75-15-0	
Carbon tetrachloride	**<0.49**	ug/m3	2.2	0.49	1.75		10/26/21 21:02	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.6	0.27	1.75		10/26/21 21:02	108-90-7	
Chloroethane	**<0.39**	ug/m3	0.94	0.39	1.75		10/26/21 21:02	75-00-3	
Chloroform	**<0.32**	ug/m3	0.87	0.32	1.75		10/26/21 21:02	67-66-3	
Chloromethane	**0.52J**	ug/m3	0.74	0.15	1.75		10/26/21 21:02	74-87-3	
Cyclohexane	**0.57J**	ug/m3	3.1	0.39	1.75		10/26/21 21:02	110-82-7	
Dibromochloromethane	**<0.90**	ug/m3	3.0	0.90	1.75		10/26/21 21:02	124-48-1	
1,2-Dibromoethane (EDB)	**<0.52**	ug/m3	1.4	0.52	1.75		10/26/21 21:02	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/m3	5.4	0.71	1.75		10/26/21 21:02	95-50-1	
1,3-Dichlorobenzene	**1.1J**	ug/m3	5.4	0.89	1.75		10/26/21 21:02	541-73-1	
1,4-Dichlorobenzene	**<1.5**	ug/m3	5.4	1.5	1.75		10/26/21 21:02	106-46-7	

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ANALYTICAL RESULTS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Sample: SG-208 South **Lab ID: 10583427004** Collected: 10/13/21 09:56 Received: 10/15/21 11:10 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	**3.1**	ug/m3	1.8	0.33	1.75		10/26/21 21:02	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.4	0.29	1.75		10/26/21 21:02	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	1.4	0.34	1.75		10/26/21 21:02	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/m3	1.4	0.24	1.75		10/26/21 21:02	75-35-4	
cis-1,2-Dichloroethene	**<0.34**	ug/m3	1.4	0.34	1.75		10/26/21 21:02	156-59-2	
trans-1,2-Dichloroethene	**<0.29**	ug/m3	1.4	0.29	1.75		10/26/21 21:02	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		10/26/21 21:02	78-87-5	
cis-1,3-Dichloropropene	**<0.45**	ug/m3	4.0	0.45	1.75		10/26/21 21:02	10061-01-5	
trans-1,3-Dichloropropene	**<0.95**	ug/m3	4.0	0.95	1.75		10/26/21 21:02	10061-02-6	
Dichlorotetrafluoroethane	**<0.35**	ug/m3	2.5	0.35	1.75		10/26/21 21:02	76-14-2	
Ethanol	**52.8**	ug/m3	3.4	1.0	1.75		10/26/21 21:02	64-17-5	
Ethyl acetate	**<0.23**	ug/m3	1.3	0.23	1.75		10/26/21 21:02	141-78-6	
Ethylbenzene	**2.8**	ug/m3	1.5	0.54	1.75		10/26/21 21:02	100-41-4	
4-Ethyltoluene	**2.1J**	ug/m3	4.4	0.83	1.75		10/26/21 21:02	622-96-8	
n-Heptane	**<0.32**	ug/m3	1.5	0.32	1.75		10/26/21 21:02	142-82-5	
Hexachloro-1,3-butadiene	**<2.2**	ug/m3	9.5	2.2	1.75		10/26/21 21:02	87-68-3	
n-Hexane	**0.35J**	ug/m3	1.3	0.33	1.75		10/26/21 21:02	110-54-3	
2-Hexanone	**1.1J**	ug/m3	7.3	0.77	1.75		10/26/21 21:02	591-78-6	
Methylene Chloride	**<1.0**	ug/m3	6.2	1.0	1.75		10/26/21 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.92J**	ug/m3	7.3	0.56	1.75		10/26/21 21:02	108-10-1	
Methyl-tert-butyl ether	**0.36J**	ug/m3	6.4	0.22	1.75		10/26/21 21:02	1634-04-4	
Naphthalene	**<3.8**	ug/m3	4.7	3.8	1.75		10/26/21 21:02	91-20-3	
2-Propanol	**11.9**	ug/m3	4.4	0.89	1.75		10/26/21 21:02	67-63-0	
Propylene	**<0.23**	ug/m3	1.5	0.23	1.75		10/26/21 21:02	115-07-1	
Styrene	**3.3**	ug/m3	1.5	0.67	1.75		10/26/21 21:02	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.65**	ug/m3	2.4	0.65	1.75		10/26/21 21:02	79-34-5	
Tetrachloroethene	**1.6**	ug/m3	1.2	0.51	1.75		10/26/21 21:02	127-18-4	
Tetrahydrofuran	**<0.32**	ug/m3	1.0	0.32	1.75		10/26/21 21:02	109-99-9	
Toluene	**8.4**	ug/m3	1.3	0.43	1.75		10/26/21 21:02	108-88-3	
1,2,4-Trichlorobenzene	**<8.5**	ug/m3	13.2	8.5	1.75		10/26/21 21:02	120-82-1	
1,1,1-Trichloroethane	**3.1**	ug/m3	1.9	0.33	1.75		10/26/21 21:02	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/m3	0.97	0.34	1.75		10/26/21 21:02	79-00-5	
Trichloroethene	**1.1J**	ug/m3	1.9	0.34	1.75		10/26/21 21:02	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	2.0	0.41	1.75		10/26/21 21:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.8J**	ug/m3	2.7	0.51	1.75		10/26/21 21:02	76-13-1	
1,2,4-Trimethylbenzene	**4.8**	ug/m3	1.7	0.62	1.75		10/26/21 21:02	95-63-6	
1,3,5-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.51	1.75		10/26/21 21:02	108-67-8	
Vinyl acetate	**<0.36**	ug/m3	1.3	0.36	1.75		10/26/21 21:02	108-05-4	
Vinyl chloride	**<0.15**	ug/m3	0.46	0.15	1.75		10/26/21 21:02	75-01-4	
m&p-Xylene	**10.1**	ug/m3	3.1	1.1	1.75		10/26/21 21:02	179601-23-1	
o-Xylene	**3.7**	ug/m3	1.5	0.47	1.75		10/26/21 21:02	95-47-6	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

QC Batch: 778802
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10583427001, 10583427002

METHOD BLANK: 4147768
Matrix: Air
Associated Lab Samples: 10583427001, 10583427002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.19	1.1	10/22/21 11:49	
1,1,2,2-Tetrachloroethane	ug/m3	<0.37	1.4	10/22/21 11:49	
1,1,2-Trichloroethane	ug/m3	<0.20	1.1	10/22/21 11:49	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.29	1.6	10/22/21 11:49	
1,1-Dichloroethane	ug/m3	<0.16	0.82	10/22/21 11:49	
1,1-Dichloroethene	ug/m3	<0.14	0.81	10/22/21 11:49	
1,2,4-Trichlorobenzene	ug/m3	<4.9	7.5	10/22/21 11:49	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	10/22/21 11:49	
1,2-Dibromoethane (EDB)	ug/m3	<0.30	1.6	10/22/21 11:49	
1,2-Dichlorobenzene	ug/m3	<0.40	3.1	10/22/21 11:49	
1,2-Dichloroethane	ug/m3	<0.19	0.82	10/22/21 11:49	
1,2-Dichloropropane	ug/m3	<0.27	0.94	10/22/21 11:49	
1,3,5-Trimethylbenzene	ug/m3	<0.29	1.0	10/22/21 11:49	
1,3-Butadiene	ug/m3	<0.12	0.45	10/22/21 11:49	
1,3-Dichlorobenzene	ug/m3	<0.51	3.1	10/22/21 11:49	
1,4-Dichlorobenzene	ug/m3	<0.88	3.1	10/22/21 11:49	
2-Butanone (MEK)	ug/m3	<0.46	3.0	10/22/21 11:49	
2-Hexanone	ug/m3	<0.44	4.2	10/22/21 11:49	
2-Propanol	ug/m3	<0.51	2.5	10/22/21 11:49	
4-Ethyltoluene	ug/m3	<0.47	2.5	10/22/21 11:49	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.32	4.2	10/22/21 11:49	
Acetone	ug/m3	<1.8	6.0	10/22/21 11:49	
Benzene	ug/m3	<0.11	0.65	10/22/21 11:49	
Benzyl chloride	ug/m3	<0.89	2.6	10/22/21 11:49	
Bromodichloromethane	ug/m3	<0.24	1.4	10/22/21 11:49	
Bromoform	ug/m3	<1.6	5.2	10/22/21 11:49	
Bromomethane	ug/m3	<0.15	0.79	10/22/21 11:49	
Carbon disulfide	ug/m3	<0.13	0.63	10/22/21 11:49	
Carbon tetrachloride	ug/m3	<0.28	1.3	10/22/21 11:49	
Chlorobenzene	ug/m3	<0.16	0.94	10/22/21 11:49	
Chloroethane	ug/m3	<0.22	0.54	10/22/21 11:49	
Chloroform	ug/m3	<0.18	0.99	10/22/21 11:49	
Chloromethane	ug/m3	<0.085	0.42	10/22/21 11:49	
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	10/22/21 11:49	
cis-1,3-Dichloropropene	ug/m3	<0.26	2.3	10/22/21 11:49	
Cyclohexane	ug/m3	<0.22	1.8	10/22/21 11:49	
Dibromochloromethane	ug/m3	<0.52	1.7	10/22/21 11:49	
Dichlorodifluoromethane	ug/m3	<0.19	1.0	10/22/21 11:49	
Dichlorotetrafluoroethane	ug/m3	<0.20	1.4	10/22/21 11:49	
Ethanol	ug/m3	<0.59	1.9	10/22/21 11:49	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

METHOD BLANK: 4147768 Matrix: Air
Associated Lab Samples: 10583427001, 10583427002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.13	0.73	10/22/21 11:49	
Ethylbenzene	ug/m3	<0.31	0.88	10/22/21 11:49	
Hexachloro-1,3-butadiene	ug/m3	<1.2	5.4	10/22/21 11:49	
m&p-Xylene	ug/m3	<0.64	1.8	10/22/21 11:49	
Methyl-tert-butyl ether	ug/m3	<0.13	3.7	10/22/21 11:49	
Methylene Chloride	ug/m3	<0.59	3.5	10/22/21 11:49	
n-Heptane	ug/m3	<0.18	0.83	10/22/21 11:49	
n-Hexane	ug/m3	<0.19	0.72	10/22/21 11:49	
Naphthalene	ug/m3	<2.2	2.7	10/22/21 11:49	
o-Xylene	ug/m3	<0.27	0.88	10/22/21 11:49	
Propylene	ug/m3	<0.13	0.88	10/22/21 11:49	
Styrene	ug/m3	<0.38	0.87	10/22/21 11:49	
Tetrachloroethene	ug/m3	<0.29	0.69	10/22/21 11:49	
Tetrahydrofuran	ug/m3	<0.18	0.60	10/22/21 11:49	
Toluene	ug/m3	<0.24	0.77	10/22/21 11:49	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	10/22/21 11:49	
trans-1,3-Dichloropropene	ug/m3	<0.54	2.3	10/22/21 11:49	
Trichloroethene	ug/m3	<0.20	1.1	10/22/21 11:49	
Trichlorofluoromethane	ug/m3	<0.23	2.9	10/22/21 11:49	
Vinyl acetate	ug/m3	<0.21	0.72	10/22/21 11:49	
Vinyl chloride	ug/m3	<0.087	0.26	10/22/21 11:49	

LABORATORY CONTROL SAMPLE: 4147769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	60.2	101	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	76.6	102	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	61.7	103	70-134	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	88.1	105	70-130	
1,1-Dichloroethane	ug/m3	43.9	44.9	102	70-133	
1,1-Dichloroethene	ug/m3	43.5	44.4	102	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	189	107	69-132	
1,2,4-Trimethylbenzene	ug/m3	54	55.6	103	70-142	
1,2-Dibromoethane (EDB)	ug/m3	82.5	84.1	102	70-138	
1,2-Dichlorobenzene	ug/m3	66.2	67.3	102	70-146	
1,2-Dichloroethane	ug/m3	44.4	44.8	101	70-132	
1,2-Dichloropropane	ug/m3	50.6	51.7	102	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.7	55.1	103	70-143	
1,3-Butadiene	ug/m3	24.2	22.6	93	70-136	
1,3-Dichlorobenzene	ug/m3	66.3	68.3	103	70-145	
1,4-Dichlorobenzene	ug/m3	66.3	68.2	103	70-140	
2-Butanone (MEK)	ug/m3	32.3	32.4	100	50-139	
2-Hexanone	ug/m3	44.8	45.4	101	70-148	
2-Propanol	ug/m3	149	150	101	67-135	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

LABORATORY CONTROL SAMPLE: 4147769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	56.0	104	70-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	44.6	99	70-139	
Acetone	ug/m3	128	126	99	64-130	
Benzene	ug/m3	34.8	34.9	100	70-131	
Benzyl chloride	ug/m3	57.6	58.8	102	70-130	
Bromodichloromethane	ug/m3	73.1	75.1	103	70-133	
Bromoform	ug/m3	114	121	106	70-137	
Bromomethane	ug/m3	42.5	41.9	99	64-134	
Carbon disulfide	ug/m3	34.4	43.1	125	70-131	
Carbon tetrachloride	ug/m3	69.4	70.9	102	70-131	
Chlorobenzene	ug/m3	50.2	49.2	98	70-130	
Chloroethane	ug/m3	28.8	27.3	95	69-141	
Chloroform	ug/m3	52.4	52.8	101	70-130	
Chloromethane	ug/m3	22.6	22.5	100	70-130	
cis-1,2-Dichloroethene	ug/m3	43.4	44.1	102	70-137	
cis-1,3-Dichloropropene	ug/m3	49.4	64.6	131	70-144	CH
Cyclohexane	ug/m3	37.4	38.9	104	70-137	
Dibromochloromethane	ug/m3	93.2	97.4	104	70-132	
Dichlorodifluoromethane	ug/m3	54.6	56.0	103	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	71.4	100	70-130	
Ethanol	ug/m3	124	122	98	63-133	
Ethyl acetate	ug/m3	38.9	37.8	97	70-136	
Ethylbenzene	ug/m3	47.8	47.0	98	70-142	
Hexachloro-1,3-butadiene	ug/m3	133	144	108	70-135	
m&p-Xylene	ug/m3	95.4	94.6	99	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	45.8	116	70-143	
Methylene Chloride	ug/m3	190	230	121	70-130	
n-Heptane	ug/m3	44.6	44.1	99	70-137	
n-Hexane	ug/m3	38	39.1	103	70-135	
Naphthalene	ug/m3	65.2	67.7	104	67-132	
o-Xylene	ug/m3	47.6	47.6	100	70-141	
Propylene	ug/m3	18.9	19.0	101	70-130	
Styrene	ug/m3	47	44.8	95	70-142	
Tetrachloroethene	ug/m3	73.4	72.2	98	70-130	
Tetrahydrofuran	ug/m3	32.1	31.3	98	70-136	
Toluene	ug/m3	41.6	41.3	99	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	44.5	102	70-130	
trans-1,3-Dichloropropene	ug/m3	50.5	50.2	99	70-145	
Trichloroethene	ug/m3	58.4	58.6	100	70-130	
Trichlorofluoromethane	ug/m3	62	60.4	97	69-135	
Vinyl acetate	ug/m3	46.4	46.2	100	70-146	
Vinyl chloride	ug/m3	28	26.6	95	70-137	

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(612)607-1700

QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4148751

Parameter	Units	35669169002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.34U	<0.34		25	
1,1,2,2-Tetrachloroethane	ug/m3	0.68U	<0.68		25	
1,1,2-Trichloroethane	ug/m3	0.36U	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.53U	<0.53		25	
1,1-Dichloroethane	ug/m3	0.30U	<0.30		25	
1,1-Dichloroethene	ug/m3	0.25U	<0.25		25	
1,2,4-Trichlorobenzene	ug/m3	8.9U	<8.9		25	
1,2,4-Trimethylbenzene	ug/m3	0.65U	<0.65		25	
1,2-Dibromoethane (EDB)	ug/m3	0.55U	<0.55		25	
1,2-Dichlorobenzene	ug/m3	0.74U	<0.74		25	
1,2-Dichloroethane	ug/m3	0.36U	<0.36		25	
1,2-Dichloropropane	ug/m3	0.49U	<0.49		25	
1,3,5-Trimethylbenzene	ug/m3	0.53U	<0.53		25	
1,3-Butadiene	ug/m3	0.22U	<0.22		25	
1,3-Dichlorobenzene	ug/m3	0.93U	<0.93		25	
1,4-Dichlorobenzene	ug/m3	1.6U	<1.6		25	
2-Butanone (MEK)	ug/m3	1.1J	2.3J		25	
2-Hexanone	ug/m3	0.81U	<0.81		25	
2-Propanol	ug/m3	2.1J	2.0J		25	
4-Ethyltoluene	ug/m3	0.86U	<0.86		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.59U	<0.59		25	
Acetone	ug/m3	7.9J	10.2J		25	
Benzene	ug/m3	0.21U	<0.21		25	
Benzyl chloride	ug/m3	1.6U	<1.6		25	
Bromodichloromethane	ug/m3	0.43U	<0.43		25	
Bromoform	ug/m3	3.0U	<3.0		25	
Bromomethane	ug/m3	0.27U	<0.27		25	
Carbon disulfide	ug/m3	0.88J	0.93J		25	
Carbon tetrachloride	ug/m3	0.51U	<0.51		25	
Chlorobenzene	ug/m3	0.28U	<0.28		25	
Chloroethane	ug/m3	0.41U	<0.41		25	
Chloroform	ug/m3	0.33U	<0.33		25	
Chloromethane	ug/m3	0.16U	<0.16		25	
cis-1,2-Dichloroethene	ug/m3	0.36U	<0.36		25	
cis-1,3-Dichloropropene	ug/m3	0.47U	<0.47		25	
Cyclohexane	ug/m3	0.40U	<0.40		25	
Dibromochloromethane	ug/m3	0.94U	<0.94		25	
Dichlorodifluoromethane	ug/m3	0.34U	<0.34		25	
Dichlorotetrafluoroethane	ug/m3	0.37U	<0.37		25	
Ethanol	ug/m3	3.9	4.0	4	25	
Ethyl acetate	ug/m3	0.24U	<0.24		25	
Ethylbenzene	ug/m3	0.57U	<0.57		25	
Hexachloro-1,3-butadiene	ug/m3	2.3U	<2.3		25	
m&p-Xylene	ug/m3	1.2U	<1.2		25	
Methyl-tert-butyl ether	ug/m3	0.23U	<0.23		25	
Methylene Chloride	ug/m3	1.1U	<1.1		25	
n-Heptane	ug/m3	0.33U	<0.33		25	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4148751

Parameter	Units	35669169002 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.35U	<0.35		25	
Naphthalene	ug/m3	4.0U	<4.0		25	
o-Xylene	ug/m3	0.50U	<0.50		25	
Propylene	ug/m3	0.24U	<0.24		25	
Styrene	ug/m3	0.70U	<0.70		25	
Tetrachloroethene	ug/m3	0.53U	<0.53		25	
Tetrahydrofuran	ug/m3	0.33U	<0.33		25	
Toluene	ug/m3	0.56J	0.55J		25	
trans-1,2-Dichloroethene	ug/m3	0.31U	<0.31		25	
trans-1,3-Dichloropropene	ug/m3	1.0U	<1.0		25	
Trichloroethene	ug/m3	0.36U	<0.36		25	
Trichlorofluoromethane	ug/m3	1.7J	1.8J		25	
Vinyl acetate	ug/m3	0.38U	<0.38		25	
Vinyl chloride	ug/m3	0.16U	<0.16		25	

SAMPLE DUPLICATE: 4148752

Parameter	Units	35669169004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.34U	<0.34		25	
1,1,2,2-Tetrachloroethane	ug/m3	0.68U	<0.68		25	
1,1,2-Trichloroethane	ug/m3	0.36U	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	1.0J	<0.53		25	
1,1-Dichloroethane	ug/m3	0.30U	<0.30		25	
1,1-Dichloroethene	ug/m3	0.25U	<0.25		25	
1,2,4-Trichlorobenzene	ug/m3	8.9U	<8.9		25	
1,2,4-Trimethylbenzene	ug/m3	0.99J	1.0J		25	
1,2-Dibromoethane (EDB)	ug/m3	0.55U	<0.55		25	
1,2-Dichlorobenzene	ug/m3	0.74U	<0.74		25	
1,2-Dichloroethane	ug/m3	0.36U	<0.36		25	
1,2-Dichloropropane	ug/m3	0.49U	<0.49		25	
1,3,5-Trimethylbenzene	ug/m3	0.53U	<0.53		25	
1,3-Butadiene	ug/m3	5.0	5.6	11	25	
1,3-Dichlorobenzene	ug/m3	6.8	6.7	1	25	
1,4-Dichlorobenzene	ug/m3	1.6U	<1.6		25	
2-Butanone (MEK)	ug/m3	0.85U	<0.85		25	
2-Hexanone	ug/m3	1.8J	1.8J		25	
2-Propanol	ug/m3	7.4	7.5	1	25	
4-Ethyltoluene	ug/m3	0.86U	<0.86		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.77J	0.72J		25	
Acetone	ug/m3	62.8	55.9	12	25	
Benzene	ug/m3	0.21U	<0.21		25	
Benzyl chloride	ug/m3	1.6U	<1.6		25	
Bromodichloromethane	ug/m3	0.43U	<0.43		25	
Bromoform	ug/m3	3.0U	<3.0		25	
Bromomethane	ug/m3	0.27U	<0.27		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4148752

Parameter	Units	35669169004 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	5.5	5.8	6	25	
Carbon tetrachloride	ug/m3	0.51U	<0.51		25	
Chlorobenzene	ug/m3	0.28U	<0.28		25	
Chloroethane	ug/m3	0.41U	<0.41		25	
Chloroform	ug/m3	0.33U	<0.33		25	
Chloromethane	ug/m3	3.3	3.4	3	25	
cis-1,2-Dichloroethene	ug/m3	0.36U	<0.36		25	
cis-1,3-Dichloropropene	ug/m3	0.47U	<0.47		25	
Cyclohexane	ug/m3	0.40U	<0.40		25	
Dibromochloromethane	ug/m3	0.94U	<0.94		25	
Dichlorodifluoromethane	ug/m3	0.34U	<0.34		25	
Dichlorotetrafluoroethane	ug/m3	0.37U	<0.37		25	
Ethanol	ug/m3	13.1	9.6	31	25	R1
Ethyl acetate	ug/m3	0.24U	<0.24		25	
Ethylbenzene	ug/m3	0.57U	<0.57		25	
Hexachloro-1,3-butadiene	ug/m3	2.3U	<2.3		25	
m&p-Xylene	ug/m3	1.2U	<1.2		25	
Methyl-tert-butyl ether	ug/m3	0.23U	<0.23		25	
Methylene Chloride	ug/m3	1.1U	<1.1		25	
n-Heptane	ug/m3	1.1J	<0.33		25	
n-Hexane	ug/m3	0.35U	<0.35		25	
Naphthalene	ug/m3	4.0U	<4.0		25	
o-Xylene	ug/m3	0.50U	<0.50		25	
Propylene	ug/m3	0.24U	<0.24		25	
Styrene	ug/m3	1.1J	1.1J		25	
Tetrachloroethene	ug/m3	0.53U	<0.53		25	
Tetrahydrofuran	ug/m3	5.2	5.5	6	25	
Toluene	ug/m3	1.3J	1.3J		25	
trans-1,2-Dichloroethene	ug/m3	0.31U	<0.31		25	
trans-1,3-Dichloropropene	ug/m3	1.0U	<1.0		25	
Trichloroethene	ug/m3	0.36U	<0.36		25	
Trichlorofluoromethane	ug/m3	2.1J	2.0J		25	
Vinyl acetate	ug/m3	0.38U	<0.38		25	
Vinyl chloride	ug/m3	0.16U	<0.16		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

QC Batch: 778977
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10583427003

METHOD BLANK: 4149012
Matrix: Air
Associated Lab Samples: 10583427003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.093	0.56	10/24/21 12:53	
1,1,2,2-Tetrachloroethane	ug/m3	<0.19	0.70	10/24/21 12:53	
1,1,2-Trichloroethane	ug/m3	<0.098	0.55	10/24/21 12:53	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.14	0.78	10/24/21 12:53	MN
1,1-Dichloroethane	ug/m3	<0.082	0.41	10/24/21 12:53	
1,1-Dichloroethene	ug/m3	<0.069	0.40	10/24/21 12:53	
1,2,4-Trichlorobenzene	ug/m3	<2.4	3.8	10/24/21 12:53	
1,2,4-Trimethylbenzene	ug/m3	<0.18	0.50	10/24/21 12:53	
1,2-Dibromoethane (EDB)	ug/m3	<0.15	0.78	10/24/21 12:53	MN
1,2-Dichlorobenzene	ug/m3	<0.20	1.5	10/24/21 12:53	
1,2-Dichloroethane	ug/m3	<0.097	0.41	10/24/21 12:53	
1,2-Dichloropropane	ug/m3	<0.13	0.47	10/24/21 12:53	
1,3,5-Trimethylbenzene	ug/m3	<0.14	0.50	10/24/21 12:53	
1,3-Butadiene	ug/m3	<0.060	0.22	10/24/21 12:53	
1,3-Dichlorobenzene	ug/m3	<0.25	1.5	10/24/21 12:53	
1,4-Dichlorobenzene	ug/m3	<0.44	1.5	10/24/21 12:53	
2-Butanone (MEK)	ug/m3	<0.23	1.5	10/24/21 12:53	
2-Hexanone	ug/m3	<0.22	2.1	10/24/21 12:53	
2-Propanol	ug/m3	0.28J	1.2	10/24/21 12:53	
4-Ethyltoluene	ug/m3	<0.24	1.2	10/24/21 12:53	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.16	2.1	10/24/21 12:53	
Acetone	ug/m3	<0.90	3.0	10/24/21 12:53	
Benzene	ug/m3	<0.057	0.32	10/24/21 12:53	MN
Benzyl chloride	ug/m3	<0.44	1.3	10/24/21 12:53	
Bromodichloromethane	ug/m3	<0.12	0.68	10/24/21 12:53	
Bromoform	ug/m3	<0.81	2.6	10/24/21 12:53	
Bromomethane	ug/m3	<0.075	0.39	10/24/21 12:53	
Carbon disulfide	ug/m3	<0.064	0.32	10/24/21 12:53	
Carbon tetrachloride	ug/m3	<0.14	0.64	10/24/21 12:53	
Chlorobenzene	ug/m3	<0.078	0.47	10/24/21 12:53	
Chloroethane	ug/m3	<0.11	0.27	10/24/21 12:53	
Chloroform	ug/m3	<0.092	0.50	10/24/21 12:53	MN
Chloromethane	ug/m3	<0.043	0.21	10/24/21 12:53	
cis-1,2-Dichloroethene	ug/m3	<0.098	0.40	10/24/21 12:53	
cis-1,3-Dichloropropene	ug/m3	<0.13	1.2	10/24/21 12:53	
Cyclohexane	ug/m3	<0.11	0.88	10/24/21 12:53	
Dibromochloromethane	ug/m3	<0.26	0.86	10/24/21 12:53	
Dichlorodifluoromethane	ug/m3	<0.094	0.50	10/24/21 12:53	
Dichlorotetrafluoroethane	ug/m3	<0.10	0.71	10/24/21 12:53	
Ethanol	ug/m3	<0.30	0.96	10/24/21 12:53	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

METHOD BLANK: 4149012 Matrix: Air
Associated Lab Samples: 10583427003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.066	0.37	10/24/21 12:53	
Ethylbenzene	ug/m3	<0.15	0.44	10/24/21 12:53	
Hexachloro-1,3-butadiene	ug/m3	<0.62	2.7	10/24/21 12:53	
m&p-Xylene	ug/m3	<0.32	0.88	10/24/21 12:53	
Methyl-tert-butyl ether	ug/m3	<0.063	1.8	10/24/21 12:53	
Methylene Chloride	ug/m3	<0.30	1.8	10/24/21 12:53	
n-Heptane	ug/m3	<0.090	0.42	10/24/21 12:53	
n-Hexane	ug/m3	<0.096	0.36	10/24/21 12:53	
Naphthalene	ug/m3	<1.1	1.3	10/24/21 12:53	
o-Xylene	ug/m3	<0.14	0.44	10/24/21 12:53	
Propylene	ug/m3	<0.065	0.44	10/24/21 12:53	
Styrene	ug/m3	<0.19	0.43	10/24/21 12:53	
Tetrachloroethene	ug/m3	<0.15	0.34	10/24/21 12:53	
Tetrahydrofuran	ug/m3	<0.090	0.30	10/24/21 12:53	
Toluene	ug/m3	<0.12	0.38	10/24/21 12:53	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	10/24/21 12:53	
trans-1,3-Dichloropropene	ug/m3	<0.27	1.2	10/24/21 12:53	
Trichloroethene	ug/m3	<0.098	0.55	10/24/21 12:53	MN
Trichlorofluoromethane	ug/m3	<0.12	1.4	10/24/21 12:53	MN
Vinyl acetate	ug/m3	<0.10	0.36	10/24/21 12:53	
Vinyl chloride	ug/m3	<0.043	0.13	10/24/21 12:53	

LABORATORY CONTROL SAMPLE: 4149013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	69.6	117	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	89.7	119	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	70.5	118	70-134	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	97.0	116	70-130	
1,1-Dichloroethane	ug/m3	43.9	52.0	118	70-133	
1,1-Dichloroethene	ug/m3	43.5	49.0	113	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	213	120	69-132	
1,2,4-Trimethylbenzene	ug/m3	54	63.9	118	70-142	
1,2-Dibromoethane (EDB)	ug/m3	82.5	95.8	116	70-138	
1,2-Dichlorobenzene	ug/m3	66.2	76.2	115	70-146	
1,2-Dichloroethane	ug/m3	44.4	51.5	116	70-132	
1,2-Dichloropropane	ug/m3	50.6	59.3	117	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.7	63.7	119	70-143	
1,3-Butadiene	ug/m3	24.2	23.9	99	70-136	
1,3-Dichlorobenzene	ug/m3	66.3	78.2	118	70-145	
1,4-Dichlorobenzene	ug/m3	66.3	77.0	116	70-140	
2-Butanone (MEK)	ug/m3	32.3	37.1	115	50-139	
2-Hexanone	ug/m3	44.8	49.8	111	70-148	
2-Propanol	ug/m3	149	167	112	67-135	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

LABORATORY CONTROL SAMPLE: 4149013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	62.8	117	70-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	50.4	112	70-139	
Acetone	ug/m3	128	136	107	64-130	
Benzene	ug/m3	34.8	39.2	113	70-131	
Benzyl chloride	ug/m3	57.6	67.2	117	70-130	
Bromodichloromethane	ug/m3	73.1	85.9	117	70-133	
Bromoform	ug/m3	114	140	123	70-137	
Bromomethane	ug/m3	42.5	46.7	110	64-134	
Carbon disulfide	ug/m3	34.4	38.1	111	70-131	
Carbon tetrachloride	ug/m3	69.4	82.4	119	70-131	
Chlorobenzene	ug/m3	50.2	56.0	112	70-130	
Chloroethane	ug/m3	28.8	30.2	105	69-141	
Chloroform	ug/m3	52.4	61.8	118	70-130	
Chloromethane	ug/m3	22.6	23.8	106	70-130	
cis-1,2-Dichloroethene	ug/m3	43.4	50.8	117	70-137	
cis-1,3-Dichloropropene	ug/m3	49.4	74.7	151	70-144	CH,L1
Cyclohexane	ug/m3	37.4	43.8	117	70-137	
Dibromochloromethane	ug/m3	93.2	111	119	70-132	
Dichlorodifluoromethane	ug/m3	54.6	64.7	118	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	79.0	111	70-130	
Ethanol	ug/m3	124	134	108	63-133	
Ethyl acetate	ug/m3	38.9	43.5	112	70-136	
Ethylbenzene	ug/m3	47.8	54.4	114	70-142	
Hexachloro-1,3-butadiene	ug/m3	133	172	129	70-135	
m&p-Xylene	ug/m3	95.4	106	111	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	45.9	116	70-143	
Methylene Chloride	ug/m3	190	211	111	70-130	
n-Heptane	ug/m3	44.6	49.5	111	70-137	
n-Hexane	ug/m3	38	44.3	117	70-135	
Naphthalene	ug/m3	65.2	77.4	119	67-132	
o-Xylene	ug/m3	47.6	54.7	115	70-141	
Propylene	ug/m3	18.9	21.2	113	70-130	
Styrene	ug/m3	47	52.3	111	70-142	
Tetrachloroethene	ug/m3	73.4	80.4	109	70-130	
Tetrahydrofuran	ug/m3	32.1	35.0	109	70-136	
Toluene	ug/m3	41.6	47.3	114	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	41.6	96	70-130	
trans-1,3-Dichloropropene	ug/m3	50.5	56.8	112	70-145	
Trichloroethene	ug/m3	58.4	66.1	113	70-130	
Trichlorofluoromethane	ug/m3	62	69.1	111	69-135	
Vinyl acetate	ug/m3	46.4	47.1	102	70-146	
Vinyl chloride	ug/m3	28	28.0	100	70-137	

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(612)607-1700

QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4149375

Parameter	Units	10583427003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.28	<0.28		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.29	<0.29		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	1.0J	1.1J		25	
1,1-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,1-Dichloroethene	ug/m3	<0.21	<0.21		25	
1,2,4-Trichlorobenzene	ug/m3	<7.3	<7.3		25	
1,2,4-Trimethylbenzene	ug/m3	<0.53	<0.53		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.45	<0.45		25	
1,2-Dichlorobenzene	ug/m3	<0.60	<0.60		25	
1,2-Dichloroethane	ug/m3	<0.29	<0.29		25	
1,2-Dichloropropane	ug/m3	<0.40	<0.40		25	
1,3,5-Trimethylbenzene	ug/m3	<0.43	<0.43		25	
1,3-Butadiene	ug/m3	<0.18	<0.18		25	
1,3-Dichlorobenzene	ug/m3	<0.76	<0.76		25	
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3		25	
2-Butanone (MEK)	ug/m3	2.8J	2.5J		25	
2-Hexanone	ug/m3	1.3J	0.74J		25	
2-Propanol	ug/m3	2.8J	2.9J		25	
4-Ethyltoluene	ug/m3	<0.70	<0.70		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.48	<0.48		25	
Acetone	ug/m3	11.2	11.7	4	25	
Benzene	ug/m3	0.29J	0.19J		25	
Benzyl chloride	ug/m3	<1.3	<1.3		25	
Bromodichloromethane	ug/m3	<0.35	<0.35		25	
Bromoform	ug/m3	<2.4	<2.4		25	
Bromomethane	ug/m3	<0.22	<0.22		25	
Carbon disulfide	ug/m3	<0.19	<0.19		25	
Carbon tetrachloride	ug/m3	0.57J	0.57J		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	<0.27	<0.27		25	
Chloromethane	ug/m3	0.91	0.92	0	25	
cis-1,2-Dichloroethene	ug/m3	<0.29	<0.29		25	
cis-1,3-Dichloropropene	ug/m3	<0.38	<0.38		25	
Cyclohexane	ug/m3	0.33J	<0.33		25	
Dibromochloromethane	ug/m3	<0.77	<0.77		25	
Dichlorodifluoromethane	ug/m3	6.3	87.1	173	25	R1
Dichlorotetrafluoroethane	ug/m3	<0.30	<0.30		25	
Ethanol	ug/m3	6.8	7.3	8	25	
Ethyl acetate	ug/m3	<0.20	<0.20		25	
Ethylbenzene	ug/m3	<0.46	<0.46		25	
Hexachloro-1,3-butadiene	ug/m3	<1.8	<1.8		25	
m&p-Xylene	ug/m3	<0.96	<0.96		25	
Methyl-tert-butyl ether	ug/m3	<0.19	<0.19		25	
Methylene Chloride	ug/m3	1.5J	1.4J		25	
n-Heptane	ug/m3	1.3	0.67J		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4149375

Parameter	Units	10583427003 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.50J	<0.28		25	
Naphthalene	ug/m3	<3.2	<3.2		25	
o-Xylene	ug/m3	<0.40	<0.40		25	
Propylene	ug/m3	0.70J	0.79J		25	
Styrene	ug/m3	<0.57	<0.57		25	
Tetrachloroethene	ug/m3	<0.44	<0.44		25	
Tetrahydrofuran	ug/m3	<0.27	<0.27		25	
Toluene	ug/m3	1.2	1.1J		25	
trans-1,2-Dichloroethene	ug/m3	<0.25	<0.25		25	
trans-1,3-Dichloropropene	ug/m3	<0.81	<0.81		25	
Trichloroethene	ug/m3	<0.29	<0.29		25	
Trichlorofluoromethane	ug/m3	2.7J	2.5J		25	
Vinyl acetate	ug/m3	<0.31	<0.31		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

SAMPLE DUPLICATE: 4149376

Parameter	Units	10584483035 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.26		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.52		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.28		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.99J		25	
1,1-Dichloroethane	ug/m3	ND	<0.23		25	
1,1-Dichloroethene	ug/m3	ND	<0.19		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<6.9		25	
1,2,4-Trimethylbenzene	ug/m3	ND	0.62J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.42		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.57		25	
1,2-Dichloroethane	ug/m3	ND	<0.27		25	
1,2-Dichloropropane	ug/m3	ND	<0.38		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.41		25	
1,3-Butadiene	ug/m3	ND	<0.17		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.72		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.2		25	
2-Butanone (MEK)	ug/m3	ND	<0.66		25	
2-Hexanone	ug/m3	ND	<0.62		25	
2-Propanol	ug/m3	4.3	4.1	4	25	
4-Ethyltoluene	ug/m3	ND	<0.67		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.45		25	
Acetone	ug/m3	ND	5.9J		25	
Benzene	ug/m3	ND	0.38J		25	
Benzyl chloride	ug/m3	ND	<1.3		25	
Bromodichloromethane	ug/m3	ND	<0.33		25	
Bromoform	ug/m3	ND	<2.3		25	
Bromomethane	ug/m3	ND	<0.21		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4149376

Parameter	Units	10584483035 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.18		25	
Carbon tetrachloride	ug/m3	ND	0.51J		25	
Chlorobenzene	ug/m3	ND	<0.22		25	
Chloroethane	ug/m3	ND	<0.32		25	
Chloroform	ug/m3	ND	<0.26		25	
Chloromethane	ug/m3	0.86	0.87	1	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.27		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.36		25	
Cyclohexane	ug/m3	ND	1.1J		25	
Dibromochloromethane	ug/m3	ND	<0.73		25	
Dichlorodifluoromethane	ug/m3	3.2	3.0	7	25	
Dichlorotetrafluoroethane	ug/m3	ND	0.45J		25	
Ethanol	ug/m3	7.2	6.7	6	25	
Ethyl acetate	ug/m3	ND	<0.18		25	
Ethylbenzene	ug/m3	ND	<0.44		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.7		25	
m&p-Xylene	ug/m3	ND	<0.91		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.18		25	
Methylene Chloride	ug/m3	ND	1.3J		25	
n-Heptane	ug/m3	ND	0.35J		25	
n-Hexane	ug/m3	ND	0.27J		25	
Naphthalene	ug/m3	ND	<3.1		25	
o-Xylene	ug/m3	ND	<0.38		25	
Propylene	ug/m3	ND	0.70J		25	
Styrene	ug/m3	ND	<0.54		25	
Tetrachloroethene	ug/m3	ND	<0.41		25	
Tetrahydrofuran	ug/m3	ND	<0.25		25	
Toluene	ug/m3	1.1	1.1	0	25	
trans-1,2-Dichloroethene	ug/m3	ND	0.90J		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.77		25	
Trichloroethene	ug/m3	ND	<0.28		25	
Trichlorofluoromethane	ug/m3	ND	2.3J		25	
Vinyl acetate	ug/m3	ND	<0.29		25	
Vinyl chloride	ug/m3	ND	<0.12		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

QC Batch: 779470
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10583427004

METHOD BLANK: 4151317
Matrix: Air
Associated Lab Samples: 10583427004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.19	1.1	10/26/21 09:01	
1,1,2,2-Tetrachloroethane	ug/m3	<0.37	1.4	10/26/21 09:01	
1,1,2-Trichloroethane	ug/m3	<0.20	0.56	10/26/21 09:01	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.29	1.6	10/26/21 09:01	
1,1-Dichloroethane	ug/m3	<0.16	0.82	10/26/21 09:01	
1,1-Dichloroethene	ug/m3	<0.14	0.81	10/26/21 09:01	
1,2,4-Trichlorobenzene	ug/m3	<4.9	7.5	10/26/21 09:01	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	10/26/21 09:01	
1,2-Dibromoethane (EDB)	ug/m3	<0.30	0.78	10/26/21 09:01	
1,2-Dichlorobenzene	ug/m3	<0.40	3.1	10/26/21 09:01	
1,2-Dichloroethane	ug/m3	<0.19	0.82	10/26/21 09:01	
1,2-Dichloropropane	ug/m3	<0.27	0.94	10/26/21 09:01	
1,3,5-Trimethylbenzene	ug/m3	<0.29	1.0	10/26/21 09:01	
1,3-Butadiene	ug/m3	<0.12	0.45	10/26/21 09:01	
1,3-Dichlorobenzene	ug/m3	<0.51	3.1	10/26/21 09:01	
1,4-Dichlorobenzene	ug/m3	<0.88	3.1	10/26/21 09:01	
2-Butanone (MEK)	ug/m3	<0.46	3.0	10/26/21 09:01	
2-Hexanone	ug/m3	<0.44	4.2	10/26/21 09:01	
2-Propanol	ug/m3	<0.51	2.5	10/26/21 09:01	
4-Ethyltoluene	ug/m3	<0.47	2.5	10/26/21 09:01	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.32	4.2	10/26/21 09:01	
Acetone	ug/m3	<1.8	6.0	10/26/21 09:01	
Benzene	ug/m3	<0.11	0.32	10/26/21 09:01	
Benzyl chloride	ug/m3	<0.89	2.6	10/26/21 09:01	
Bromodichloromethane	ug/m3	<0.24	1.4	10/26/21 09:01	
Bromoform	ug/m3	<1.6	5.2	10/26/21 09:01	
Bromomethane	ug/m3	<0.15	0.79	10/26/21 09:01	
Carbon disulfide	ug/m3	<0.13	0.63	10/26/21 09:01	
Carbon tetrachloride	ug/m3	<0.28	1.3	10/26/21 09:01	
Chlorobenzene	ug/m3	<0.16	0.94	10/26/21 09:01	
Chloroethane	ug/m3	<0.22	0.54	10/26/21 09:01	
Chloroform	ug/m3	<0.18	0.50	10/26/21 09:01	
Chloromethane	ug/m3	<0.085	0.42	10/26/21 09:01	
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	10/26/21 09:01	
cis-1,3-Dichloropropene	ug/m3	<0.26	2.3	10/26/21 09:01	
Cyclohexane	ug/m3	<0.22	1.8	10/26/21 09:01	
Dibromochloromethane	ug/m3	<0.52	1.7	10/26/21 09:01	
Dichlorodifluoromethane	ug/m3	<0.19	1.0	10/26/21 09:01	
Dichlorotetrafluoroethane	ug/m3	<0.20	1.4	10/26/21 09:01	
Ethanol	ug/m3	<0.59	1.9	10/26/21 09:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

METHOD BLANK: 4151317 Matrix: Air
Associated Lab Samples: 10583427004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.13	0.73	10/26/21 09:01	
Ethylbenzene	ug/m3	<0.31	0.88	10/26/21 09:01	
Hexachloro-1,3-butadiene	ug/m3	<1.2	5.4	10/26/21 09:01	
m&p-Xylene	ug/m3	<0.64	1.8	10/26/21 09:01	
Methyl-tert-butyl ether	ug/m3	<0.13	3.7	10/26/21 09:01	
Methylene Chloride	ug/m3	<0.59	3.5	10/26/21 09:01	
n-Heptane	ug/m3	<0.18	0.83	10/26/21 09:01	
n-Hexane	ug/m3	<0.19	0.72	10/26/21 09:01	
Naphthalene	ug/m3	<2.2	2.7	10/26/21 09:01	
o-Xylene	ug/m3	<0.27	0.88	10/26/21 09:01	
Propylene	ug/m3	<0.13	0.88	10/26/21 09:01	
Styrene	ug/m3	<0.38	0.87	10/26/21 09:01	
Tetrachloroethene	ug/m3	<0.29	0.69	10/26/21 09:01	
Tetrahydrofuran	ug/m3	<0.18	0.60	10/26/21 09:01	
Toluene	ug/m3	0.26J	0.77	10/26/21 09:01	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	10/26/21 09:01	
trans-1,3-Dichloropropene	ug/m3	<0.54	2.3	10/26/21 09:01	
Trichloroethene	ug/m3	<0.20	1.1	10/26/21 09:01	
Trichlorofluoromethane	ug/m3	<0.23	1.1	10/26/21 09:01	
Vinyl acetate	ug/m3	<0.21	0.72	10/26/21 09:01	
Vinyl chloride	ug/m3	<0.087	0.26	10/26/21 09:01	

LABORATORY CONTROL SAMPLE: 4151318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	61.7	104	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	85.3	113	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	63.3	106	70-134	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	82.9	99	70-130	
1,1-Dichloroethane	ug/m3	43.9	40.4	92	70-133	
1,1-Dichloroethene	ug/m3	43.5	42.5	98	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	199	112	69-132	
1,2,4-Trimethylbenzene	ug/m3	54	64.1	119	70-142	
1,2-Dibromoethane (EDB)	ug/m3	82.5	93.9	114	70-138	
1,2-Dichlorobenzene	ug/m3	66.2	79.5	120	70-146	
1,2-Dichloroethane	ug/m3	44.4	43.7	98	70-132	
1,2-Dichloropropane	ug/m3	50.6	50.2	99	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.7	63.5	118	70-143	
1,3-Butadiene	ug/m3	24.2	24.5	101	70-136	
1,3-Dichlorobenzene	ug/m3	66.3	79.7	120	70-145	
1,4-Dichlorobenzene	ug/m3	66.3	76.1	115	70-140	
2-Butanone (MEK)	ug/m3	32.3	28.5	88	50-139	
2-Hexanone	ug/m3	44.8	46.4	104	70-148	
2-Propanol	ug/m3	149	142	95	67-135	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

LABORATORY CONTROL SAMPLE: 4151318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	62.3	116	70-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	44.9	100	70-139	
Acetone	ug/m3	128	141	110	64-130	
Benzene	ug/m3	34.8	35.2	101	70-131	
Benzyl chloride	ug/m3	57.6	60.9	106	70-130	
Bromodichloromethane	ug/m3	73.1	82.2	112	70-133	
Bromoform	ug/m3	114	133	117	70-137	
Bromomethane	ug/m3	42.5	42.1	99	64-134	
Carbon disulfide	ug/m3	34.4	34.4	100	70-131	
Carbon tetrachloride	ug/m3	69.4	78.3	113	70-131	
Chlorobenzene	ug/m3	50.2	53.2	106	70-130	
Chloroethane	ug/m3	28.8	29.6	103	69-141	
Chloroform	ug/m3	52.4	52.1	99	70-130	
Chloromethane	ug/m3	22.6	26.1	116	70-130	
cis-1,2-Dichloroethene	ug/m3	43.4	42.7	98	70-137	
cis-1,3-Dichloropropene	ug/m3	49.4	56.2	114	70-144	
Cyclohexane	ug/m3	37.4	35.4	95	70-137	
Dibromochloromethane	ug/m3	93.2	108	116	70-132	
Dichlorodifluoromethane	ug/m3	54.6	54.3	99	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	75.2	106	70-130	
Ethanol	ug/m3	124	139	112	63-133	
Ethyl acetate	ug/m3	38.9	37.4	96	70-136	
Ethylbenzene	ug/m3	47.8	52.6	110	70-142	
Hexachloro-1,3-butadiene	ug/m3	133	167	126	70-135	
m&p-Xylene	ug/m3	95.4	108	114	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	38.2	96	70-143	
Methylene Chloride	ug/m3	190	175	92	70-130	
n-Heptane	ug/m3	44.6	44.6	100	70-137	
n-Hexane	ug/m3	38	38.4	101	70-135	
Naphthalene	ug/m3	65.2	74.5	114	67-132	
o-Xylene	ug/m3	47.6	54.8	115	70-141	
Propylene	ug/m3	18.9	17.5	93	70-130	
Styrene	ug/m3	47	52.7	112	70-142	
Tetrachloroethene	ug/m3	73.4	86.1	117	70-130	
Tetrahydrofuran	ug/m3	32.1	31.4	98	70-136	
Toluene	ug/m3	41.6	42.7	103	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	43.8	101	70-130	
trans-1,3-Dichloropropene	ug/m3	50.5	50.4	100	70-145	
Trichloroethene	ug/m3	58.4	57.4	98	70-130	
Trichlorofluoromethane	ug/m3	62	65.7	106	69-135	
Vinyl acetate	ug/m3	46.4	44.9	97	70-146	
Vinyl chloride	ug/m3	28	31.1	111	70-137	

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

QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4152518

Parameter	Units	10583427004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	3.1	3.2	1	25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.65	<0.65		25	
1,1,2-Trichloroethane	ug/m3	<0.34	<0.34		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	1.8J	1.8J		25	
1,1-Dichloroethane	ug/m3	<0.29	<0.29		25	
1,1-Dichloroethene	ug/m3	<0.24	<0.24		25	
1,2,4-Trichlorobenzene	ug/m3	<8.5	<8.5		25	
1,2,4-Trimethylbenzene	ug/m3	4.8	4.9	2	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.52	<0.52		25	
1,2-Dichlorobenzene	ug/m3	<0.71	<0.71		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	1.5J	1.6J		25	
1,3-Butadiene	ug/m3	<0.21	<0.21		25	
1,3-Dichlorobenzene	ug/m3	1.1J	1.1J		25	
1,4-Dichlorobenzene	ug/m3	<1.5	<1.5		25	
2-Butanone (MEK)	ug/m3	2.5J	2.3J		25	
2-Hexanone	ug/m3	1.1J	1.2J		25	
2-Propanol	ug/m3	11.9	12.8	7	25	
4-Ethyltoluene	ug/m3	2.1J	2.2J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.92J	0.99J		25	
Acetone	ug/m3	14.2	15.0	5	25	
Benzene	ug/m3	0.69	0.71	3	25	
Benzyl chloride	ug/m3	<1.6	<1.6		25	
Bromodichloromethane	ug/m3	<0.41	<0.41		25	
Bromoform	ug/m3	<2.8	<2.8		25	
Bromomethane	ug/m3	<0.26	<0.26		25	
Carbon disulfide	ug/m3	0.36J	0.37J		25	
Carbon tetrachloride	ug/m3	<0.49	<0.49		25	
Chlorobenzene	ug/m3	<0.27	<0.27		25	
Chloroethane	ug/m3	<0.39	<0.39		25	
Chloroform	ug/m3	<0.32	<0.32		25	
Chloromethane	ug/m3	0.52J	0.64J		25	
cis-1,2-Dichloroethene	ug/m3	<0.34	<0.34		25	
cis-1,3-Dichloropropene	ug/m3	<0.45	<0.45		25	
Cyclohexane	ug/m3	0.57J	0.66J		25	
Dibromochloromethane	ug/m3	<0.90	<0.90		25	
Dichlorodifluoromethane	ug/m3	3.1	3.1	1	25	
Dichlorotetrafluoroethane	ug/m3	<0.35	<0.35		25	
Ethanol	ug/m3	52.8	55.5	5	25	
Ethyl acetate	ug/m3	<0.23	<0.23		25	
Ethylbenzene	ug/m3	2.8	2.9	3	25	
Hexachloro-1,3-butadiene	ug/m3	<2.2	<2.2		25	
m&p-Xylene	ug/m3	10.1	10.5	5	25	
Methyl-tert-butyl ether	ug/m3	0.36J	0.36J		25	
Methylene Chloride	ug/m3	<1.0	<1.0		25	
n-Heptane	ug/m3	<0.32	1.3J		25	

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(612)607-1700

QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4152518

Parameter	Units	10583427004 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.35J	0.40J		25	
Naphthalene	ug/m3	<3.8	3.8J		25	
o-Xylene	ug/m3	3.7	4.0	6	25	
Propylene	ug/m3	<0.23	<0.23		25	
Styrene	ug/m3	3.3	3.4	1	25	
Tetrachloroethene	ug/m3	1.6	1.7	7	25	
Tetrahydrofuran	ug/m3	<0.32	<0.32		25	
Toluene	ug/m3	8.4	8.8	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.29	<0.29		25	
trans-1,3-Dichloropropene	ug/m3	<0.95	<0.95		25	
Trichloroethene	ug/m3	1.1J	1.1J		25	
Trichlorofluoromethane	ug/m3	1.6J	1.8J		25	
Vinyl acetate	ug/m3	<0.36	<0.36		25	
Vinyl chloride	ug/m3	<0.15	<0.15		25	

SAMPLE DUPLICATE: 4152519

Parameter	Units	60382901003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.33		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.67		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	2.9	2.9	0	25	
1,1-Dichloroethane	ug/m3	ND	<0.30		25	
1,1-Dichloroethene	ug/m3	ND	<0.25		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<8.8		25	
1,2,4-Trimethylbenzene	ug/m3	23.7	23.2	2	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.54		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.73		25	
1,2-Dichloroethane	ug/m3	ND	0.68J		25	
1,2-Dichloropropane	ug/m3	ND	<0.48		25	
1,3,5-Trimethylbenzene	ug/m3	9.2	9.3	2	25	
1,3-Butadiene	ug/m3	ND	<0.22		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.92		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.6		25	
2-Butanone (MEK)	ug/m3	ND	4.9J		25	
2-Hexanone	ug/m3	ND	1.5J		25	
2-Propanol	ug/m3	14.4	<0.92		25	
4-Ethyltoluene	ug/m3	7.8	7.7	1	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2J		25	
Acetone	ug/m3	182	176	3	25	
Benzene	ug/m3	78.8	79.2	0	25	
Benzyl chloride	ug/m3	ND	<1.6		25	
Bromodichloromethane	ug/m3	ND	<0.43		25	
Bromoform	ug/m3	ND	<2.9		25	
Bromomethane	ug/m3	ND	<0.27		25	

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QUALITY CONTROL DATA

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

SAMPLE DUPLICATE: 4152519

Parameter	Units	60382901003 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	1.2		25	
Carbon tetrachloride	ug/m3	ND	<0.50		25	
Chlorobenzene	ug/m3	ND	<0.28		25	
Chloroethane	ug/m3	ND	<0.40		25	
Chloroform	ug/m3	ND	<0.33		25	
Chloromethane	ug/m3	ND	<0.15		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.35		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.46		25	
Cyclohexane	ug/m3	720	702	3	25	
Dibromochloromethane	ug/m3	ND	<0.93		25	
Dichlorodifluoromethane	ug/m3	5.5	4.9	12	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.36		25	
Ethanol	ug/m3	138	139	1	25	
Ethyl acetate	ug/m3	5.6	6.4	13	25	
Ethylbenzene	ug/m3	17.9	18.5	3	25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.2		25	
m&p-Xylene	ug/m3	161	159	2	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.23		25	
Methylene Chloride	ug/m3	ND	1.1J		25	
n-Heptane	ug/m3	15.6	16.9	8	25	
n-Hexane	ug/m3	338	327	3	25	
Naphthalene	ug/m3	ND	<3.9		25	
o-Xylene	ug/m3	53.5	52.2	3	25	
Propylene	ug/m3	ND	<0.23		25	
Styrene	ug/m3	ND	1.4J		25	
Tetrachloroethene	ug/m3	ND	0.99J		25	
Tetrahydrofuran	ug/m3	ND	<0.32		25	
Toluene	ug/m3	237	232	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.30		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.98		25	
Trichloroethene	ug/m3	ND	0.45J		25	
Trichlorofluoromethane	ug/m3	2.6	2.3	10	25	
Vinyl acetate	ug/m3	ND	<0.37		25	
Vinyl chloride	ug/m3	ND	<0.16		25	

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(612)607-1700

QUALIFIERS

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

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.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-1371006.305 City of West B
Pace Project No.: 10583427

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10583427001	**IA-B-208 South**	TO-15	778802		
10583427002	**IA-G-208 South**	TO-15	778802		
10583427003	**OA-208 South**	TO-15	778977		
10583427004	**SG-208 South**	TO-15	779470		

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WO# : 10583427

10583427

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AIR: CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant i

49726

Page: 1 of 1

Section A Required Client Information:

Company: Tetra Tech
Address: 175 N. Corporate Dr., Ste. 100 Brookfield, WI 53045
Email To: mark.manthey@tetratech.com
Phone: (262) 792-1282 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mark Manthey
Copy To:
Purchase Order No.:
Project Name: City of West Bend
Project Number: 117-1321006.305

Section C Invoice Information:

Attention: Mark Manthey
Company Name: Tetra Tech
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 33689

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___

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 #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	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	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	IA-B-208 South	6LC		10/12/21	9:11	10/13/21	9:11	30	5	0284	1772					X					001
2	IA-G-208 South	6LC		10/12/21	9:10	10/13/21	9:10	27	3	1653	1076					X					002
3	OA-208 South	6LC		10/12/21	9:16	10/13/21	9:16	29	5	2129	1777					X					003
4	SG-208 South	6LC		10/14/21	9:26	10/14/21	9:56	29	7	1736	1694					X					004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Connor Lawson / Tetra Tech	10/14/21	12:00	[illegible] Pace	10/15/21	11:10

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Connor Lawson

SIGNATURE of SAMPLER: Connor Lawson DATE Signed (MM / DD / YY) 10/14/21

ORIGINAL

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - Air**	Document Revised: 13Oct2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0113 Rev.01**	

WO#: 10583427

Air Sample Condition Upon Receipt

Client Name: tetra tech

Project #:

PM: MR2 **Due Date: 10/22/21**

CLIENT: TetraTech-WI

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 9753 8446 2654 ☐ See Exception

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other:

Date & Initials of Person Examining Contents: RG 10/15/21

				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-15 or APH)** -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes	☐ No		10.
Media: Air Can Airbag				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 ☒ 10AIR17 ☐ 10AIR47 ☐ 10AIR48

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IA-B	284	1772	-3	+5					
" -G	1653	1076	-4	"					
OA	2129	1777	-3	"					
SG	1736	1694	-7	"					

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

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Matt Ray **Date:** 10/15/21

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

INDOOR AIR BUILDING SURVEY AND SAMPLING FORM

Preparer's name: Connor Lauzon Date: 10/12/21

Preparer's affiliation: Tetra Tech Phone #: (262) 203-1294

Site Name: City of West Bend; TIF Dist. #12 Project #: 117-1321006

Part I - Occupants

Building Address: 208 South St., West Bend, WI 53095

Property Contact: Jon Hauser (Owner) / Renter / Other: _____

Contact's Phone: Home (262) 305-6879 Work (___) _____ Cell (___) _____

# of Building occupants: Children under age 13 ____ Children age 13-18 ____ Adults ____

Part II – Building Characteristics

Building type: (residential) / multi-family residential / office / strip mall / commercial / industrial

Describe building: _____ Year constructed: 1918

Sensitive population: day care / nursing home / hospital / school / other (specify): _____

Number of floors below grade: 1 (full basement / crawl space / slab on grade)

Number of floors at or above grade: 2

Depth of basement below grade surface: 4.9 ft. Basement size: 562.5 ft²

Basement floor construction: (concrete) / dirt / floating / stone / other (specify): _____

Foundation walls: (poured concrete) / cinder blocks / stone / other (specify) _____

Basement sump present? *Yes / No* Sump pump? *Yes* / (*No*) Water in sump? *Yes / No*

Depth to water in sump: N/A ft. below basement floor.

TETRA TECH

Type of heating system (circle all that apply):

hot air circulation / hot air radiation / wood / steam radiation / heat pump

hot water radiation / kerosene heater / electric baseboard / other (specify):_____

Type of ventilation system (circle all that apply):

central air conditioning / mechanical fans / bathroom ventilation fans

individual air conditioning units / kitchen range hood fan / outside air intake

other (specify): _____

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? *Yes / No*

Is there a whole house fan? *Yes / No*

Septic system? *Yes / Yes (but not used) / No* City

Irrigation/private well? *Yes / Yes (but not used) / No*

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? *Yes / No* *active / passive*

Sub-slab vapor/moisture barrier in place? *Yes / No*

Type of barrier: _____

Part III - Outside Contaminant Sources

WDNR contaminated site (1000-ft. radius): TF Dist. #12

Other stationary sources nearby (gas stations, emission stacks, etc.):

Heavy vehicular traffic nearby (or other mobile sources): Construction

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Source(s)	Location(s)	Removed Yes / No / NA
Gasoline storage cans	Basement	
Gas – powered equipment	Lawn mower (outside)	
Kerosene storage cans		NA
Paints / thinners / strippers	Basement	
Cleaning solvents	Kitchen	
Oven cleaners	Kitchen	
Carpet / upholstery cleaners	Kitchen	
Other house cleaning products	" "	
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume	Upstairs	
Air fresheners	First floor	
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New furniture / upholstery	Yes	
New carpeting / flooring	Yes (carpet upstairs)	NA
Hobbies – glues, paints, etc.		

Part V – Miscellaneous Items

Do any occupants of the building smoke? *Yes / No* How often? _____

Last time someone smoked in the building? _____ hours / *days ago*

Does the building have an attached garage directly connected to living space? *Yes / No*

If so, is a car usually parked in the garage? *Yes / No*

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? *Yes / No*

Do the occupants of the building have their clothes dry cleaned? *Yes / No*

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? *Yes / No*

If yes, what types of solvents are used?_____

If yes, are their clothes washed at work? *Yes / No*

Have any pesticides/herbicides been applied around the building or in the yard? *Yes / No*

If so, when and which chemicals? _____

Has there ever been a fire in the building? *Yes / No* If yes, when? _____

Has painting or staining been done in the building in the last 6 months? *Yes / No*

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Connor Lanzon Phone number: (262) 203 - 1294

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify):_____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: Pace

TETRA TECH

Sample locations (floor, room):

Field ID # _____ - IA-B-208 South Field ID # _____ - OA-208 South

Field ID # _____ - IA-G-208 South Field ID # _____ - SG-208 South

Were "Instructions for Occupants" followed? Yes / No

If not, describe modifications: _____

Provide Drawing of Location(s) in Building

Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: 65°, overcast, light drizzle

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

TETRA TECH SOIL GAS & INDOOR AIR SAMPLING FIELD DATA SHEET

Project Number: 117-1321006	Personnel: Connor Lauzon
Owner: ~~James~~ Jon Hauser	
Telephone: (262) 305-6879	
Property Address: 208 South St., West Bend, WI 53095	
Sample ID: IA-B-208 South	Sample Type: Indoor Air
Sample Collection Time Period (e.g. 24-hour / 30-minute):	24 hr
Location: Basement	
Concrete Thickness:	inches
Canister ID: 284	Canister Volume: 6L
Gauge Number: 1772	Temperature: 65°
Initial Vacuum: 30	Final Vacuum: 5
Start Date: 10/12/21	Start Time: 9:11
End Date: 10/13/21	End Time: 9:11
Sample ID: IA-G-208 South	Sample Type: Indoor Air
Sample Collection Time Period (e.g. 24-hour / 30-minute):	24 hr
Location: Ground floor	
Concrete Thickness:	inches
Canister ID: 1653	Canister Volume: 6L
Gauge Number: 1076	Temperature: 70
Initial Vacuum: 27	Final Vacuum: 3
Start Date: 10/12/21	Start Time: 9:10
End Date: 10/13/21	End Time: 9:10
Sample ID: OA-208 South	Sample Type: Outdoor Air (background)
Sample Collection Time Period (e.g. 24-hour / 30-minute):	24 hr
Location: Backyard	
Concrete Thickness:	inches
Canister ID: 2129	Canister Volume: 6L
Gauge Number: 1777	Temperature: 62
Initial Vacuum: 29	Final Vacuum: 5
Start Date: 10/12/21	Start Time: 9:16
End Date: 10/13/21	End Time: 9:16

TETRA TECH SOIL GAS SAMPLING FIELD DATA SHEET

Project Number: 117-1321006	Personnel: Connor Lawson	
Project Name: City of West Bend; TIF Dist. #12		
Project Location: West Bend, WI		
Property Owner: Jon Hauser		
Property Address: 208 South St.		
Probe ID: VP-208 South ~~St.~~	Probe Installation Date: 10/13/21	
Sample ID: SG-208 South ~~St~~		
Shut-in Test Vacuum Readings: Sample Train: 30	Canister: 29	
Leak Detection Method: Water Dam	Result (Pass/Fail): Pass	
Purge Volume: 1L	Purge Time: 4:35	
Canister ID: 1736	Canister Volume: 6L	
Gauge Number: 1694	Temperature: 19.3°C	Humidity: 71 %
Initial Vacuum: 29	Final Vacuum: 7	
Start Date: 10/14/21	Start Time: 9:26	
End Date: 10/14/21	End Time: 9:56	
Analytical Parameters: VOC		
Analytical Method: TO-15		
Probe ID:	Probe Installation Date:	
Sample ID:		
Shut-in Test Vacuum Readings: Sample Train:	Canister:	
Leak Detection Method: Water Dam	Result (Pass/Fail):	
Purge Volume:	Purge Time:	
Canister ID:	Canister Volume:	
Gauge Number:	Temperature:	Humidity:
Initial Vacuum:	Final Vacuum:	
Start Date:	Start Time:	
End Date:	End Time:	
Analytical Parameters:		

Concrete: 5"

TETRA TE

FORMER UST-T
(15,000 GALLON FUEL OIL UST)

FORMER UST-U
(500 GALLON FUEL OIL UST)

WATER

AVENUE

MW-7 IW-6 MW-31

MW-15

IW-5

IW-10

FORMER UST-2
(CONCRETE TANK)

MW-16

IW-14

MW-32

MW-A

MW-65

MW-48

FORMER GEHL CO.
MANUFACTURING AND
OFFICE BUILDING
(WEST PLANT)

GEHL CO.
ENGINEERING AND
RESEARCH BUILDING

MW-18

MW-17

P-40

MW-49

MW-50

SA-01

FORMER UST-1
(PAINT WASTE UST)

Storage Area

MW-33

202 208

MW-47

MW-37

Storage Area

SA-02

SOUTH STREET

MW-51

MW-66

FORMER UST-SW
(2,200 GALLON PAINT WASTE UST)

203 209

MW-21

IW-22

IW-21

MW-67

AUXILIARY COURT

IW-28

MW-6

P-39

204

IW-30

210

IW-34

MW-68

SA-04

SA-03

LINWOOD TERRACE

MW-36

SA-05

Maintenance Garage

205-205A

213-215

225

MW-5

INDIANA

FORMER UST-SE
(8,000 GALLON FUEL OIL
UST)

MW-34

WEST KILBOURN

MILWAUKEE RIVER

MW-4

MW-3R

SA-06

MW-1

SS-02

MW-2

P-38

MW-35

CHESTNUT STREET

EXPLANATION

- MW-1 MONITOR WELL LOCATION AND DESIGNATION
- MW-A ABANDONED MONITOR WELL LOCATION AND DESIGNATION
- IW-14 INJECTION WELL LOCATION AND DESIGNATION
- IW-5 ABANDONED INJECTION WELL LOCATION AND DESIGNATION
- P-38 PIEZOMETER LOCATION AND DESIGNATION
- SA-02 SEWER AIR SAMPLE LOCATION
- SA-05 PROPOSED ADDITIONAL SEWER AIR SAMPLE LOCATION
- PARCEL BOUNDARY
- SANITARY SEWER
- SANITARY SEWER MANHOLE
- STORM SEWER
- STORM SEWER PIPE END
- STORM SEWER MANHOLE
- STORM SEWER INLET

SCALE

0 280

Feet

TITLE: SITE FIGURE AND EXISTING AND PROPOSED SAMPLE LOCATIONS

LOCATION: TIF DISTRICT # 12, WEST BEND, WISCONSIN

TETRA TECH

CHECKED	MAM
DRAFTED	CMP
PROJECT	117-1321006
DATE	11/04/20

FIGURE: 1

S:\CAD\CITY OF WEST BEND\NOVEMBER 2020\SITE FIGURE AND EXISTING AND PROPOSED SAMPLE LOCATIONS 11-03-20.DWG

Table 1. Summary of 208 South Street Property Indoor Air and Sub-Slab Soil Gas Samples VOCs Analytical Results

			Sample ID and Property Address	IA-B-208 South	IA-G-208 South	OA-208 South	SG-208 South
			Sample Date	10/13/2021	10/13/2021	10/13/2021	10/14/2021
Parameter	Units	VAL	VRSL	Indoor Air	Indoor Air	Outdoor Air	Soil Gas
1,1,1-Trichloroethane	ug/m3	5200	170000	<0.28	<0.29	<0.28	3.1
1,1,2-Trichlorotrifluoroethane	ug/m3	5200	170000	1.1 J	1.0 J	1.0 J	1.8 J
1,1-Dichloroethane	ug/m3	18	600	<0.25	<0.26	<0.25	<0.29
1,1-Dichloroethene	ug/m3	210	7000	<0.21	<0.21	<0.21	<0.24
1,2,4-Trimethylbenzene	ug/m3	63	2100	1.4 J	2.4	<0.53	4.8
1,2-Dichlorobenzene	ug/m3	210	7000	<0.60	<0.63	<0.60	<0.71
1,2-Dichloroethane	ug/m3	1.1	37	<0.29	**1.1 J**	<0.29	<0.34
1,3,5-Trimethylbenzene	ug/m3	63	2100	<0.43	<0.45	<0.43	1.5 J
1,3-Dichlorobenzene	ug/m3	--	--	<0.76	<0.79	<0.76	1.1 J
1,4-Dichlorobenzene	ug/m3	2.6	87	<1.3	<1.4	<1.3	<1.5
2-Butanone (MEK)	ug/m3	5200	170000	5.4	6.9	2.8 J	2.5 J
2-Hexanone	ug/m3	31	1000	1.0 J	1.4 J	1.3 J	1.1 J
2-Propanol	ug/m3	210	7000	205	**720**	2.8 J	11.9
4-Ethyltoluene	ug/m3	--	--	<0.70	0.95 J	<0.70	2.1 J
4-Methyl-2-pentanone (MIBK)	ug/m3	3100	100000	1.2 J	1.6 J	<0.48	0.92 J
Acetone	ug/m3	32000	1100000	130	179	11.2	14.2
Benzene	ug/m3	3.6	120	0.74 J	0.75 J	0.29 J	0.69
Carbon disulfide	ug/m3	730	24000	<0.19	3.5	<0.19	0.36 J
Carbon tetrachloride	ug/m3	4.7	160	0.63 J	0.74 J	0.57 J	<0.49
Chlorobenzene	ug/m3	52	1700	<0.23	<0.24	<0.23	<0.27
Chloroform	ug/m3	1.2	40	<0.27	<0.28	<0.27	<0.32
Chloromethane	ug/m3	94	3100	0.99	<0.13	0.91	0.52 J
Cyclohexane	ug/m3	--	--	1.9 J	1.5 J	0.33 J	0.57 J
Dichlorodifluoromethane	ug/m3	100	3000	3.2	2.9	6.3	3.1
Ethanol	ug/m3	--	--	150	1930	6.8	52.8
Ethyl acetate	ug/m3	73	2400	1.7	25.0	<0.20	<0.23
Ethylbenzene	ug/m3	11	370	0.68 J	1.8	<0.46	2.8
m&p-Xylene	ug/m3	100	3300	2.5 J	3.2	<0.96	10.1
Methylene Chloride	ug/m3	630	21000	1.5 J	1.6 J	1.5 J	<1.0
n-Heptane	ug/m3	420	14000	2.2	4.5	1.3	<0.32
n-Hexane	ug/m3	730	24000	1.4	1.6	0.50 J	0.35 J
o-Xylene	ug/m3	100	3300	0.93 J	1.3 J	<0.40	3.7
Styrene	ug/m3	1000	33000	0.95 J	2.3	<0.57	3.3
Tetrachloroethene	ug/m3	42	1400	<0.44	0.62 J	<0.44	1.6
Tetrahydrofuran	ug/m3	2100	70000	2.1	1.8	<0.27	<0.32
Toluene	ug/m3	5200	170000	7.8	9.5	1.2	8.4
trans-1,2-Dichloroethene	ug/m3	--	--	<0.25	<0.26	<0.25	<0.29
Trichloroethene	ug/m3	2.1	70	<0.29	<0.30	<0.29	1.1 J
Trichlorofluoromethane	ug/m3	--	--	2.4 J	2.4 J	2.7 J	1.6 J
Total VOCs	ug/m3	--	--	528.18	2940.23	42.2	136.37

Notes:

IA-B: Basement Indoor Air sample.

IA-G: Ground Floor Indoor Air sample.

VP: Soil Gas sample.

OA: Outdoor Air sample.

VOCs: Volatile Organic Compounds

225 Linwood = Property address

VAL: WDNR Residential Vapor Action Level

ug/m3: micrograms per cubic meter

VRSL: WDNR Residential Vapor Risk Screening Level

-- : Inhalation toxicity values are not available from U.S. EPA.

VALs apply to Indoor Air (IA designation) samples.

VRSLs apply to Soil Gas (VP designation) samples.

Highlighted values exceed the parameter's VAL

Only detected VOCs are listed. See laboratory analytical report for complete list of VOCs analyzed.