From: Linnemanstons, Leo <Leo.Linnemanstons@aecom.com>
Sent: Thursday, January 12, 2023 3:15 PM
To: Grittner, Paul V - DNR; Buser, David - DNR
Cc: Neumann, Doug; Schultz, Tory
Subject: West Bend LF - Private Well PW20 Investigation Results
Attachments: 40256137_frc.pdf

CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi, Paul and David.
On behalf of the City of West Bend, AECOM is writing to provide an update on the groundwater investigation that was undertaken in the vicinity of non-potable private well PW20 (WDNR ID#: 234) northeast of the Former Schuster Drive Landfill in West Bend. After the City received access permission, AECOM installed temporary groundwater monitoring wells using a hydraulic probe rig on October 28, 2022 (TW-29, TW-30, and TW-31). The temporary wells were installed to determine the water quality at the water table (temporary well locations and screened intervals are noted below on the included Figure 1). Because temporary well TW-29 did not produce water, the temporary well was abandoned, and an alternate temporary well TW-32 was installed using hand auger methods on November 10, 2022 (TW-32) on City of West Bend owned property (shown below). However, temporary well TW-32 was also found to not have measurable water on November 10 and December 14, 2022. Therefore, AECOM only collected water samples from temporary wells TW-30 and TW-31 on December 14, 2022 and submitted the samples to Pace Analytical for volatile organic compound (VOC) analysis. The laboratory report for the groundwater samples is attached (see 40256137_frc.pdf), and the results are summarized in the following table:

VOCs Results	TW-29	TW-30	TW-31	TW-32
12/14/2022	Dry(Abandoned)	No Detections	No Detections	Dry

VOC results were below the laboratory detection limits for TW-30 (Right of Way near PW-20) and TW-31 (Right of Way on vacant parcel). Sample locations are shown on the attached figure.

FIGURE 1: Location of Temporary Groundwater Monitoring

Proposed Temporary Well Location

Notes:

1. Image from Google Earth 4/1/21
2. TW-30 (6790 Wildwood Rd) screened 10-20 ft, TW-29 (Right of Way near 2707 Hidden Forest Plac screened 15-25 ft., TW-31 (Right of Way near 2720 Hidden Forest Place) screened 5-15 ft, and TW Parcel ID #11191020275 – Park Forest Dr) installed 11/10/22 screened 1-10 ft.

A second round of water samples is planned for later this spring to confirm the initial results. As described in the PW20 notification email, dated October 4, 2022 (see email string below), if the second round of water samples confirms that no VOCs (or specifically Trichloroethylene) are present at the water table in the vicinity of PW20, then no further investigation is planned.

Please let us know if you have any comments regarding these results or the planned investigation.

Thank you,

Leo B. Linnemanstons, P.G. (WI)
Senior Project Hydrogeologist, Environment
D +1-608-828-8208
M +1-608-658-6700

From: Grittner, Paul V - DNR <Paul.Grittner@wisconsin.gov>
Sent: Monday, January 09, 2023 3:10 PM
To: Linnemanstons, Leo <Leo.Linnemanstons@aecom.com>
Subject: RE: West Bend LF - Private Well PW20 Water Quality Results

Leo,

We are following up on this email that you had sent out last October. At the end you stated that some additional groundwater investigation was proposed to be conducted in October or November. Did this work take place? If so, when can we expect the laboratory reports and other documentation be submitted.

We appreciate any information you can provide.

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Paul Grittner
Phone: (414) 405-0764
paul.grittner@wisconsin.gov

From: Linnemanstons, Leo <Leo.Linnemanstons@aecom.com>
Sent: Tuesday, October 04, 2022 3:32 PM
To: Buser, David - DNR <David.Buser@wisconsin.gov>; Grittner, Paul V - DNR <Paul.Grittner@wisconsin.gov>
Cc: Neumann, Doug <neumannd@ci.west-bend.wi.us>; Schultz, Tory <Tory.Schultz@aecom.com>
Subject: West Bend LF - Private Well PW20 Water Quality Results

CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi, Paul and David.
On behalf of the City of West Bend, AECOM is writing to inform the Wisconsin Department of Natural Resources (WDNR) about new water quality test results for a non-potable private well PW20 (WDNR ID#: 234), which is located on the residential property at 6790 Wildwood Road, West Bend, WI. PW20 is located approximately 2,800 ft east of the landfill near the intersection of Schuster Dr and Wildwood Rd. PW20 is monitored annually for VOCs, and historically has had detections for VOCs associated with

the landfill. The residence uses the City of West Bend municipal supply, but the private well remains a part of the landfill groundwater monitoring program. Although PW20 has had historical detections above the Chapter NR 140 Enforcement Standard (ES), the result for trichloroethylene (TCE) in 2020 was 2.0 ug/L, which was less than the ES. In 2021, the water sample was mistakenly collected from the City water supply at the residence, so no well water result was available. However, the analytical results from the 2022 monitoring event indicated detections of TCE above the ES again. Because of the ES exceedance for TCE during this year's annual event, we collected a subsequent sample to confirm the results. The following is the summary of 2022 VOC detections:

PW20	**TCE**	Cis-1,2-DCE	Vinyl Chloride	1,1-DCA	1,2-DCA	Total VOCs
ES	5	70	0.2	850	5	
PAL	0.5	7	0.02	85	0.5	
8/11/22	**9.3**	*26.9*	<0.17	<0.30	*0.66J*	39.1
8/30/22	**10.9**	*28.2*	**0.56J**	5.0	*0.75J*	47.8

Because of the lack of well construction information for PW20, we do not know if the ES exceedance is at the water table or may be the result of the VOC plume migrating at a greater depth. Therefore, the City has directed AECOM to perform a groundwater investigation to determine the water quality at the water table in the vicinity of PW20. The groundwater investigation will be conducted using temporary wells and water sampling methods as described in the previously approved *Work Plan for Vapor Intrusion and Expanded Groundwater Investigation,* dated April 26, 2019. The results of the water table investigation will determine if the additional actions may be necessary such as the following:

- if the ES exceedance for TCE is at the water table, then it may indicate a potential vapor intrusion risk, and further action may be needed to investigate for vapor intrusion at the residence; or
- if the ES exceedance for TCE is below the water table, then the overlying water may be a barrier to vapor intrusion, and no further action may be needed.

A letter providing these laboratory results for PW20 will be sent to the property owner/occupant and WDNR. The City is proceeding with the gaining the necessary access to perform the groundwater investigation. We anticipate that the investigation will be performed in October and that laboratory results will be available in early November.

Please let us know if you have any comments regarding these results or the planned investigation.

Thank you,

Leo B. Linnemanstons, P.G.
Senior Project Hydrogeologist
Environment
D 608-828-8208
leo.linnemanstons@aecom.com

AECOM
1350 Deming Way, Suite 100
Middleton, Wisconsin 53562
T 608-836-9800 F 608-836-9767

www.aecom.com

This electronic communication, which includes any files or attachments thereto, contains proprietary or confidential information and may be privileged and otherwise protected under copyright or other applicable intellectual property laws. All information contained in this electronic communication is solely for the use of the individual(s) or entity to which it was addressed. If you are not the intended recipient(s), you are hereby notified that distributing, copying, or in any way disclosing any of the information in this e-mail is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately, and destroy the communication and any files or attachments in their entirety, whether in electronic or hard copy format. Since data stored on electronic media can deteriorate, be translated or modified, AECOM, its subsidiaries, and/or affiliates will not be liable for the completeness, correctness or readability of the electronic data. The electronic data should be verified against the hard copy.

Please consider the environment before printing this e-mail.

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

December 27, 2022

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

RE: Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Dear Tory Schultz:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,

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

Enclosures

cc: Leo B. Linnemanstons, P.G., AECOM, Inc
Keith Nielsen, AECOM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

CERTIFICATIONS

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE SUMMARY

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40256137001	**TW-30**	Water	12/14/22 19:15	12/16/22 07:40
40256137002	**TW-31**	Water	12/14/22 19:55	12/16/22 07:40
40256137003	**TRIP BLANK**	Water	12/14/22 19:00	12/16/22 07:40

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40256137001	**TW-30**	EPA 8260	CXJ	45	PASI-G
40256137002	**TW-31**	EPA 8260	CXJ	45	PASI-G
40256137003	**TRIP BLANK**	EPA 8260	JAV	45	PASI-G

PASI-G = Pace Analytical Services - Green Bay

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Sample: TW-30 **Lab ID: 40256137001** Collected: 12/14/22 19:15 Received: 12/16/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		12/21/22 15:19	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		12/21/22 15:19	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		12/21/22 15:19	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		12/21/22 15:19	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		12/21/22 15:19	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		12/21/22 15:19	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		12/21/22 15:19	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		12/21/22 15:19	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		12/21/22 15:19	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		12/21/22 15:19	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		12/21/22 15:19	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		12/21/22 15:19	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		12/21/22 15:19	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		12/21/22 15:19	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		12/21/22 15:19	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		12/21/22 15:19	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		12/21/22 15:19	74-83-9	
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		12/21/22 15:19	75-15-0	L1
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		12/21/22 15:19	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		12/21/22 15:19	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		12/21/22 15:19	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		12/21/22 15:19	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		12/21/22 15:19	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		12/21/22 15:19	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		12/21/22 15:19	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		12/21/22 15:19	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		12/21/22 15:19	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		12/21/22 15:19	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		12/21/22 15:19	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		12/21/22 15:19	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		12/21/22 15:19	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		12/21/22 15:19	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		12/21/22 15:19	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		12/21/22 15:19	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		12/21/22 15:19	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		12/21/22 15:19	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/22 15:19	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		12/21/22 15:19	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		12/21/22 15:19	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		12/21/22 15:19	10061-01-5	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		12/21/22 15:19	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		12/21/22 15:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/21/22 15:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		12/21/22 15:19	2199-69-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Sample: TW-30 **Lab ID: 40256137001** Collected: 12/14/22 19:15 Received: 12/16/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		12/21/22 15:19	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Sample: TW-31 **Lab ID: 40256137002** Collected: 12/14/22 19:55 Received: 12/16/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		12/21/22 15:39	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		12/21/22 15:39	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		12/21/22 15:39	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		12/21/22 15:39	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		12/21/22 15:39	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		12/21/22 15:39	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		12/21/22 15:39	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		12/21/22 15:39	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		12/21/22 15:39	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		12/21/22 15:39	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		12/21/22 15:39	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		12/21/22 15:39	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		12/21/22 15:39	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		12/21/22 15:39	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		12/21/22 15:39	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		12/21/22 15:39	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		12/21/22 15:39	74-83-9	
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		12/21/22 15:39	75-15-0	L1
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		12/21/22 15:39	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		12/21/22 15:39	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		12/21/22 15:39	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		12/21/22 15:39	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		12/21/22 15:39	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		12/21/22 15:39	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		12/21/22 15:39	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		12/21/22 15:39	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		12/21/22 15:39	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		12/21/22 15:39	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		12/21/22 15:39	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		12/21/22 15:39	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		12/21/22 15:39	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		12/21/22 15:39	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		12/21/22 15:39	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		12/21/22 15:39	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		12/21/22 15:39	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		12/21/22 15:39	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/22 15:39	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		12/21/22 15:39	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		12/21/22 15:39	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		12/21/22 15:39	10061-01-5	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		12/21/22 15:39	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		12/21/22 15:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		12/21/22 15:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		12/21/22 15:39	2199-69-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Sample: TW-31 **Lab ID: 40256137002** Collected: 12/14/22 19:55 Received: 12/16/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		12/21/22 15:39	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Sample: TRIP BLANK **Lab ID: 40256137003** Collected: 12/14/22 19:00 Received: 12/16/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		12/23/22 13:13	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		12/23/22 13:13	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		12/23/22 13:13	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		12/23/22 13:13	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		12/23/22 13:13	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		12/23/22 13:13	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		12/23/22 13:13	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		12/23/22 13:13	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		12/23/22 13:13	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		12/23/22 13:13	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		12/23/22 13:13	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		12/23/22 13:13	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		12/23/22 13:13	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		12/23/22 13:13	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		12/23/22 13:13	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		12/23/22 13:13	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		12/23/22 13:13	74-83-9	
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		12/23/22 13:13	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		12/23/22 13:13	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		12/23/22 13:13	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		12/23/22 13:13	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		12/23/22 13:13	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		12/23/22 13:13	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		12/23/22 13:13	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		12/23/22 13:13	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		12/23/22 13:13	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		12/23/22 13:13	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		12/23/22 13:13	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		12/23/22 13:13	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		12/23/22 13:13	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		12/23/22 13:13	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		12/23/22 13:13	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		12/23/22 13:13	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		12/23/22 13:13	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		12/23/22 13:13	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		12/23/22 13:13	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/23/22 13:13	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		12/23/22 13:13	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		12/23/22 13:13	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		12/23/22 13:13	10061-01-5	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		12/23/22 13:13	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		12/23/22 13:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/23/22 13:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		12/23/22 13:13	2199-69-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Sample: TRIP BLANK **Lab ID: 40256137003** Collected: 12/14/22 19:00 Received: 12/16/22 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		12/23/22 13:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

QC Batch: 434189
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40256137003

METHOD BLANK: 2499244
Matrix: Water
Associated Lab Samples: 40256137003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	12/23/22 08:23	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	12/23/22 08:23	
1,1-Dichloroethane	ug/L	<0.30	1.0	12/23/22 08:23	
1,1-Dichloroethene	ug/L	<0.58	1.0	12/23/22 08:23	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	12/23/22 08:23	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	12/23/22 08:23	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	12/23/22 08:23	
1,2-Dichloroethane	ug/L	<0.29	1.0	12/23/22 08:23	
1,2-Dichloropropane	ug/L	<0.45	1.0	12/23/22 08:23	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	12/23/22 08:23	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	12/23/22 08:23	
2-Butanone (MEK)	ug/L	<6.5	25.0	12/23/22 08:23	
Acetone	ug/L	<8.6	25.0	12/23/22 08:23	
Benzene	ug/L	<0.30	1.0	12/23/22 08:23	
Bromodichloromethane	ug/L	<0.42	1.0	12/23/22 08:23	
Bromoform	ug/L	<3.8	5.0	12/23/22 08:23	
Bromomethane	ug/L	<1.2	5.0	12/23/22 08:23	
Carbon disulfide	ug/L	<1.1	5.0	12/23/22 08:23	
Carbon tetrachloride	ug/L	<0.37	1.0	12/23/22 08:23	
Chlorobenzene	ug/L	<0.86	1.0	12/23/22 08:23	
Chloroethane	ug/L	<1.4	5.0	12/23/22 08:23	
Chloroform	ug/L	<1.2	5.0	12/23/22 08:23	
Chloromethane	ug/L	<1.6	5.0	12/23/22 08:23	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	12/23/22 08:23	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	12/23/22 08:23	
Dibromochloromethane	ug/L	<2.6	5.0	12/23/22 08:23	
Dibromomethane	ug/L	<0.99	5.0	12/23/22 08:23	
Dichlorodifluoromethane	ug/L	<0.46	5.0	12/23/22 08:23	
Ethylbenzene	ug/L	<0.33	1.0	12/23/22 08:23	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	12/23/22 08:23	
Methylene Chloride	ug/L	<0.32	5.0	12/23/22 08:23	
Naphthalene	ug/L	<1.1	5.0	12/23/22 08:23	
Styrene	ug/L	<0.36	1.0	12/23/22 08:23	
Tetrachloroethene	ug/L	<0.41	1.0	12/23/22 08:23	
Tetrahydrofuran	ug/L	<2.4	25.0	12/23/22 08:23	
Toluene	ug/L	<0.29	1.0	12/23/22 08:23	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	12/23/22 08:23	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	12/23/22 08:23	
Trichloroethene	ug/L	<0.32	1.0	12/23/22 08:23	
Trichlorofluoromethane	ug/L	<0.42	1.0	12/23/22 08:23	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

METHOD BLANK: 2499244 Matrix: Water
Associated Lab Samples: 40256137003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	12/23/22 08:23	
Xylene (Total)	ug/L	<1.0	3.0	12/23/22 08:23	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130	12/23/22 08:23	
4-Bromofluorobenzene (S)	%	95	70-130	12/23/22 08:23	
Toluene-d8 (S)	%	100	70-130	12/23/22 08:23	

LABORATORY CONTROL SAMPLE: 2499245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.9	98	70-134	
1,1,2-Trichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethane	ug/L	50	46.9	94	70-130	
1,1-Dichloroethene	ug/L	50	63.3	127	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	40.1	80	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	48.1	96	70-130	
1,2-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,2-Dichloroethane	ug/L	50	49.6	99	70-137	
1,2-Dichloropropane	ug/L	50	47.5	95	80-121	
1,3-Dichlorobenzene	ug/L	50	47.7	95	70-130	
1,4-Dichlorobenzene	ug/L	50	46.3	93	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Bromodichloromethane	ug/L	50	47.3	95	70-130	
Bromoform	ug/L	50	45.4	91	70-130	
Bromomethane	ug/L	50	48.1	96	21-147	
Carbon disulfide	ug/L	50	64.4	129	70-130	
Carbon tetrachloride	ug/L	50	50.8	102	80-146	
Chlorobenzene	ug/L	50	50.3	101	70-130	
Chloroethane	ug/L	50	60.8	122	52-165	
Chloroform	ug/L	50	49.1	98	80-123	
Chloromethane	ug/L	50	39.4	79	51-122	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.1	90	70-130	
Dibromochloromethane	ug/L	50	47.8	96	70-130	
Dichlorodifluoromethane	ug/L	50	32.2	64	25-121	
Ethylbenzene	ug/L	50	51.4	103	80-120	
Methyl-tert-butyl ether	ug/L	50	61.3	123	70-130	
Methylene Chloride	ug/L	50	63.4	127	70-130	
Styrene	ug/L	50	49.9	100	70-130	
Tetrachloroethene	ug/L	50	47.1	94	70-130	
Toluene	ug/L	50	48.7	97	80-120	
trans-1,2-Dichloroethene	ug/L	50	63.1	126	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.2	86	70-130	
Trichloroethene	ug/L	50	49.8	100	70-130	
Trichlorofluoromethane	ug/L	50	55.1	110	65-160	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

LABORATORY CONTROL SAMPLE: 2499245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	42.8	86	63-134	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2499786 2499787

Parameter	Units	40256206002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	49.5	49.2	99	98	70-134	1	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	46.1	47.6	92	95	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	46.4	46.9	93	94	70-130	1	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	64.1	66.7	128	133	71-130	4	20	M1
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	42.2	42.5	84	85	51-141	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	46.8	47.9	94	96	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	46.9	48.0	94	96	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	48.9	48.8	98	98	70-137	0	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	45.5	47.5	91	95	80-121	4	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	47.3	49.5	95	99	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	46.6	47.1	93	94	70-130	1	20	
Benzene	ug/L	<0.30	50	50	48.1	48.6	96	97	70-130	1	20	
Bromodichloromethane	ug/L	<0.42	50	50	46.8	47.8	94	96	70-130	2	20	
Bromoform	ug/L	<3.8	50	50	45.9	46.8	92	94	70-133	2	20	
Bromomethane	ug/L	<1.2	50	50	50.9	56.4	102	113	21-149	10	22	
Carbon disulfide	ug/L	<1.1	50	50	67.4	70.1	135	140	70-130	4	20	M1
Carbon tetrachloride	ug/L	<0.37	50	50	51.1	51.1	102	102	80-146	0	20	
Chlorobenzene	ug/L	<0.86	50	50	49.4	50.7	99	101	70-130	3	20	
Chloroethane	ug/L	<1.4	50	50	63.3	63.3	127	127	52-165	0	20	
Chloroform	ug/L	<1.2	50	50	48.5	48.8	97	98	80-123	1	20	
Chloromethane	ug/L	<1.6	50	50	38.8	38.5	78	77	42-125	1	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	47.5	47.9	95	96	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	45.4	45.6	91	91	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	47.1	48.5	94	97	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	30.8	30.9	62	62	25-121	0	20	
Ethylbenzene	ug/L	<0.33	50	50	51.5	52.0	103	104	80-121	1	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	59.7	61.6	119	123	70-130	3	20	
Methylene Chloride	ug/L	<0.32	50	50	61.9	65.9	124	132	70-130	6	20	M1
Styrene	ug/L	<0.36	50	50	48.6	49.4	97	99	70-132	2	20	
Tetrachloroethene	ug/L	<0.41	50	50	46.4	47.1	93	94	70-130	2	20	
Toluene	ug/L	<0.29	50	50	48.5	49.1	97	98	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	62.9	63.6	126	127	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	42.1	43.5	84	87	70-130	3	20	
Trichloroethene	ug/L	<0.32	50	50	49.3	49.3	99	99	70-130	0	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2499786 2499787

Parameter	Units	40256206002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	ug/L	<0.42	50	50	55.6	55.6	111	111	65-160	0	20	
Vinyl chloride	ug/L	<0.17	50	50	41.9	41.9	84	84	60-137	0	20	
Xylene (Total)	ug/L	<1.0	150	150	153	157	102	104	70-130	3	20	
1,2-Dichlorobenzene-d4 (S)	%						95	98	70-130			
4-Bromofluorobenzene (S)	%						94	95	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

QC Batch: 434190
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40256137001, 40256137002

METHOD BLANK: 2499246
Matrix: Water
Associated Lab Samples: 40256137001, 40256137002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	12/21/22 08:07	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	12/21/22 08:07	
1,1-Dichloroethane	ug/L	<0.30	1.0	12/21/22 08:07	
1,1-Dichloroethene	ug/L	<0.58	1.0	12/21/22 08:07	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	12/21/22 08:07	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	12/21/22 08:07	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	12/21/22 08:07	
1,2-Dichloroethane	ug/L	<0.29	1.0	12/21/22 08:07	
1,2-Dichloropropane	ug/L	<0.45	1.0	12/21/22 08:07	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	12/21/22 08:07	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	12/21/22 08:07	
2-Butanone (MEK)	ug/L	<6.5	25.0	12/21/22 08:07	
Acetone	ug/L	<8.6	25.0	12/21/22 08:07	
Benzene	ug/L	<0.30	1.0	12/21/22 08:07	
Bromodichloromethane	ug/L	<0.42	1.0	12/21/22 08:07	
Bromoform	ug/L	<3.8	5.0	12/21/22 08:07	
Bromomethane	ug/L	<1.2	5.0	12/21/22 08:07	
Carbon disulfide	ug/L	<1.1	5.0	12/21/22 08:07	
Carbon tetrachloride	ug/L	<0.37	1.0	12/21/22 08:07	
Chlorobenzene	ug/L	<0.86	1.0	12/21/22 08:07	
Chloroethane	ug/L	<1.4	5.0	12/21/22 08:07	
Chloroform	ug/L	<1.2	5.0	12/21/22 08:07	
Chloromethane	ug/L	<1.6	5.0	12/21/22 08:07	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	12/21/22 08:07	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	12/21/22 08:07	
Dibromochloromethane	ug/L	<2.6	5.0	12/21/22 08:07	
Dibromomethane	ug/L	<0.99	5.0	12/21/22 08:07	
Dichlorodifluoromethane	ug/L	<0.46	5.0	12/21/22 08:07	
Ethylbenzene	ug/L	<0.33	1.0	12/21/22 08:07	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	12/21/22 08:07	
Methylene Chloride	ug/L	<0.32	5.0	12/21/22 08:07	
Naphthalene	ug/L	<1.1	5.0	12/21/22 08:07	
Styrene	ug/L	<0.36	1.0	12/21/22 08:07	
Tetrachloroethene	ug/L	<0.41	1.0	12/21/22 08:07	
Tetrahydrofuran	ug/L	<2.4	25.0	12/21/22 08:07	
Toluene	ug/L	<0.29	1.0	12/21/22 08:07	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	12/21/22 08:07	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	12/21/22 08:07	
Trichloroethene	ug/L	<0.32	1.0	12/21/22 08:07	
Trichlorofluoromethane	ug/L	<0.42	1.0	12/21/22 08:07	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

METHOD BLANK: 2499246 Matrix: Water
Associated Lab Samples: 40256137001, 40256137002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	12/21/22 08:07	
Xylene (Total)	ug/L	<1.0	3.0	12/21/22 08:07	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	12/21/22 08:07	
4-Bromofluorobenzene (S)	%	104	70-130	12/21/22 08:07	
Toluene-d8 (S)	%	104	70-130	12/21/22 08:07	

LABORATORY CONTROL SAMPLE: 2499247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.2	96	70-134	
1,1,2-Trichloroethane	ug/L	50	55.7	111	70-130	
1,1-Dichloroethane	ug/L	50	55.8	112	70-130	
1,1-Dichloroethene	ug/L	50	54.5	109	74-131	
1,2-Dibromo-3-chloropropane	ug/L	50	51.9	104	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	70-130	
1,2-Dichlorobenzene	ug/L	50	50.6	101	70-130	
1,2-Dichloroethane	ug/L	50	56.4	113	70-137	
1,2-Dichloropropane	ug/L	50	55.8	112	80-121	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	47.9	96	70-130	
Benzene	ug/L	50	53.4	107	70-130	
Bromodichloromethane	ug/L	50	50.3	101	70-130	
Bromoform	ug/L	50	46.6	93	70-130	
Bromomethane	ug/L	50	32.4	65	21-147	
Carbon disulfide	ug/L	50	67.3	135	70-130	L1
Carbon tetrachloride	ug/L	50	48.3	97	80-146	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	60.9	122	52-165	
Chloroform	ug/L	50	51.1	102	80-123	
Chloromethane	ug/L	50	55.4	111	51-122	
cis-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	70-130	
Dibromochloromethane	ug/L	50	49.1	98	70-130	
Dichlorodifluoromethane	ug/L	50	23.4	47	25-121	
Ethylbenzene	ug/L	50	55.0	110	80-120	
Methyl-tert-butyl ether	ug/L	50	44.1	88	70-130	
Methylene Chloride	ug/L	50	52.0	104	70-130	
Styrene	ug/L	50	54.0	108	70-130	
Tetrachloroethene	ug/L	50	50.9	102	70-130	
Toluene	ug/L	50	53.5	107	80-120	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.1	98	70-130	
Trichloroethene	ug/L	50	50.0	100	70-130	
Trichlorofluoromethane	ug/L	50	51.4	103	65-160	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

LABORATORY CONTROL SAMPLE: 2499247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	48.1	96	63-134	
Xylene (Total)	ug/L	150	160	107	70-130	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2499935 2499936

Parameter	Units	40256173001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.00030 mg/L	50	50	48.5	49.6	97	99	70-134	2	20	
1,1,2-Trichloroethane	ug/L	<0.00034 mg/L	50	50	53.8	56.6	108	113	70-130	5	20	
1,1-Dichloroethane	ug/L	<0.00030 mg/L	50	50	55.0	55.9	110	112	70-130	2	20	
1,1-Dichloroethene	ug/L	<0.00058 mg/L	50	50	53.3	53.3	107	107	71-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<0.0024 mg/L	50	50	49.8	54.0	100	108	51-141	8	20	
1,2-Dibromoethane (EDB)	ug/L	<0.00031 mg/L	50	50	50.4	51.8	101	104	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.00033 mg/L	50	50	49.6	50.4	99	101	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.00029 mg/L	50	50	54.5	55.6	109	111	70-137	2	20	
1,2-Dichloropropane	ug/L	<0.00045 mg/L	50	50	55.2	55.6	110	111	80-121	1	20	
1,3-Dichlorobenzene	ug/L	<0.00035 mg/L	50	50	47.9	48.7	96	97	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.00089 mg/L	50	50	47.1	48.2	94	96	70-130	2	20	
Benzene	ug/L	<0.00030 mg/L	50	50	53.1	52.9	106	106	70-130	0	20	
Bromodichloromethane	ug/L	<0.00042 mg/L	50	50	49.9	51.3	100	103	70-130	3	20	
Bromoform	ug/L	<0.0038 mg/L	50	50	45.4	47.9	91	96	70-133	5	20	
Bromomethane	ug/L	<0.0012 mg/L	50	50	41.5	32.4	83	65	21-149	25	22	R1
Carbon disulfide	ug/L	<1.1	50	50	65.0	64.0	130	128	70-130	2	20	
Carbon tetrachloride	ug/L	<0.00037 mg/L	50	50	50.8	49.3	102	99	80-146	3	20	
Chlorobenzene	ug/L	<0.00086 mg/L	50	50	52.1	53.2	104	106	70-130	2	20	
Chloroethane	ug/L	<0.0014 mg/L	50	50	52.9	55.1	106	110	52-165	4	20	
Chloroform	ug/L	<0.0012 mg/L	50	50	50.1	51.4	100	103	80-123	3	20	
Chloromethane	ug/L	<0.0016 mg/L	50	50	49.0	55.2	98	110	42-125	12	20	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2499935 2499936

Parameter	Units	40256173001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	0.00068J mg/L	50	50	48.8	49.2	96	97	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.00036 mg/L	50	50	49.3	48.9	99	98	70-130	1	20	
Dibromochloromethane	ug/L	<0.0026 mg/L	50	50	49.2	50.9	98	102	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.00046 mg/L	50	50	23.3	23.5	47	47	25-121	1	20	
Ethylbenzene	ug/L	<0.00033 mg/L	50	50	54.6	55.5	109	111	80-121	2	20	
Methyl-tert-butyl ether	ug/L	<0.0011 mg/L	50	50	44.6	43.8	89	88	70-130	2	20	
Methylene Chloride	ug/L	<0.00032 mg/L	50	50	52.3	52.5	105	105	70-130	0	20	
Styrene	ug/L	<0.00036 mg/L	50	50	54.1	54.5	108	109	70-132	1	20	
Tetrachloroethene	ug/L	<0.00041 mg/L	50	50	51.1	51.8	102	104	70-130	1	20	
Toluene	ug/L	<0.00029 mg/L	50	50	53.6	54.3	107	109	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<0.00053 mg/L	50	50	51.0	52.3	102	105	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	<0.0035 mg/L	50	50	52.9	48.5	106	97	70-130	9	20	
Trichloroethene	ug/L	0.0016 mg/L	50	50	51.3	51.9	99	100	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.00042 mg/L	50	50	51.9	50.9	104	102	65-160	2	20	
Vinyl chloride	ug/L	<0.00017 mg/L	50	50	49.2	49.4	98	99	60-137	0	20	
Xylene (Total)	ug/L	<1.0	150	150	162	166	108	110	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						102	102	70-130			
4-Bromofluorobenzene (S)	%						105	106	70-130			
Toluene-d8 (S)	%						104	102	70-130			

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALIFIERS

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

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

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60485031 SCHUSTER DRIVE LF
Pace Project No.: 40256137

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40256137001	**TW-30**	EPA 8260	434190		
40256137002	**TW-31**	EPA 8260	434190		
40256137003	**TRIP BLANK**	EPA 8260	434189		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https //info pacelabs com/hubfs/pas-standard-terms pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

L1025613 7

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

ompany: AECOM

ddress: 1555 N RiverCenter Dr.

eport To: TORY.SCHULTZ@AECOM.COM

Email To: USAPIMAGING@AECOM.COM

opy To:

Billing Information:

Site Collection Info/Address: Schuster LF

ustomer Project Name/Number: 60485031

State: WI, County/City: Time Zone Collected: [ ]PT [ ]MT [✓]CT [ ]ET

Container Preservative Type **: 3

Lab Project Manager: Chris Huska

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

hone:
mail:

Site/Facility ID #: Schuster LF

Compliance Monitoring? [ ] Yes [✓] No

ollected By (print): TORY SCHULTZ

Purchase Order # :
Quote #:

DW PWS ID #:
DW Location Code:

ollected By (signature): Tory A. Schultz

Turnaround Date Required: Standard

Immediately Packed on Ice: [✓] Yes [ ] No

ample Disposal:
[✓] Dispose as appropriate
[ ] Return
[ ] Archive: _____
[ ] Hold: _____

Rush: (Expedite Charges Apply)
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day
[ ] 4 Day [ ] 5 Day

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis: _____

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

ustomer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	VOC									Lab Sample # / Comments:
TW-30	GW	G	12/14/22	1915				2	G	X									001
TW-31	GW	G	12/14/22	1955				3	G	X									002
Trip Blank	W	G	12/14/22	1900				3	G	X									003

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

ustomer Remarks / Special Conditions / Possible Hazards:
Two vials for TW-30 submitted
Well went dry

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble wrap

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: ___oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: ___oC
Comments:

elinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Tory A. Schultz	12/14/22 0850		
elinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
CS Logistics	12/16/22 0740	R. Jurobulls PMI	12/16/22 0740
elinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ___ of: ___

Client Name: AECOM

Sample Preservation Receipt Form

Project # L40256137

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

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

Initial when completed: Date/Time:

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm)*	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																	2											2						2.5 / 5
002																	3																	2.5 / 5
003																	3																	2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

12/14/22 RB

Exceptions to preservation check VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm). ☒Yes ☐No ☐N/A *If yes look in headspace column

MJS 12/16/2022

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40256137

40256137

Client Name: AECOM

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

Tracking #: _____

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

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

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

Thermometer Used SR - 125 **Type of Ice:** Wet Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr. 0 /Corr 0

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

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

Person examining contents:
Date: 12/16/22 Initials: RB
Labeled By Initials: MVB

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Page 2 of 2