From: Susan Petrofske <SPETROFSKE@ramboll.com>
Sent: Friday, January 24, 2020 12:04 PM
To: Grittner, Paul V - DNR
Cc: Hedman, Curtis J - DHS; Jeanne Tarvin; Kristin Holloway Jones; Louis Meschede
Subject: BRRTS #: 02-41-183146 (EZ Paintr/Shur-Line)
Attachments: 10505905_frc.pdf; 1925 E Norwich - VAPOR ANALYTICAL RESULTS TABLE_20200123.pdf

Paul,

As a follow-up to my voicemail message, attached are the results (laboratory analytical report and data table) from the second round of sampling performed earlier this week at 1925 E Norwich Avenue. The attached table includes the results for both the November 2019 and January 2020 events. Similar to the November 2019 event, 1-2 DCA was detected in the indoor air sample, with the detected concentration in January 2020 being 1.1 ug/m^3, which is equal to the VAL. As previously discussed, 1,2-DCA is not a contaminant of concern associated with the Shur-Line property and this detection appears to be related to an indoor air source. PCE was detected in the indoor air, sub-slab, and sump samples at concentrations below the applicable VAL or VRSL. We will provide you with a copy of the owner data transmittal later today when it is available.

As referenced in my voicemail message, we are expecting results for the second round of sampling in 5 additional homes by the end of the day today.

Please let us know if you have any questions in the interim. I am off today but can be reached on my mobile (262.391.5990) if you would like to discuss.

Regards,

Susan Petrofske
Managing Consultant

D +1 (262) 901-3501
spetrofske@ramboll.com

From: Paceport Email Notification <carolynne.trout@pacelabs.com>
Sent: Thursday, January 23, 2020 1:40 PM
To: carolynne.trout@pacelabs.com; Susan Petrofske <SPETROFSKE@ramboll.com>; Paul Lindquist <PLINDQUIST@ramboll.com>; Kyle Heimstead <KHEIMSTEAD@ramboll.com>
Subject: 1690004991 Shur-Line (Pace Project # 10505905)

Paceport Login

Pace Automated Email Notification

This email contains EDDs and Reports generated by Paceport's automated deliverable service. The attached files have been authorized to be sent to you due to the completion of project 10505905. Your

Pace project manager has been CC'ed on this email so that you may request any further assistance.

To access this project's page in paceport click on the following link.
http://paceport.pacelabs.com/ClientPortal/mvc/projectDetails/modelAndView?projectID=10505905&systemID=lims10

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January 23, 2020

Susan Petrofske
Ramboll Environ
175 North Corporate Drive
Suite 160
Brookfield, WI 53045

RE: Project: 1690004991 Shur-Line
Pace Project No.: 10505905

Dear Susan Petrofske:
Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

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

Enclosures

cc: Kyle Heimstead, Ramboll
Paul Lindquist, Ramboll

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CERTIFICATIONS

Project: 1690004991 Shur-Line
Pace Project No.: 10505905

Pace Analytical Services Minneapolis

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

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SAMPLE SUMMARY

Project: 1690004991 Shur-Line
Pace Project No.: 10505905

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10505905001	**1925 E. Norwich OA**	Air	01/20/20 13:53	01/21/20 09:40
10505905002	**1925 E. Norwich OA Cert 2415**	Air	01/20/20 13:53	01/21/20 09:40
10505905003	**1925 E. Norwich IA-B**	Air	01/20/20 13:57	01/21/20 09:40
10505905004	**1925 E. Norwich IA-B Cert 2685**	Air	01/20/20 13:57	01/21/20 09:40
10505905005	**1925 E. Norwich SS-1**	Air	01/20/20 14:55	01/21/20 09:40
10505905006	**1925 E. Norwich SS-1 Cert 0164**	Air	01/20/20 14:55	01/21/20 09:40
10505905007	**1925 E. Norwich Sump**	Air	01/20/20 14:52	01/21/20 09:40
10505905008	**1925 E. Norwich Sump Cert 0563**	Air	01/20/20 14:52	01/21/20 09:40

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SAMPLE ANALYTE COUNT

Project: 1690004991 Shur-Line
Pace Project No.: 10505905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10505905001	**1925 E. Norwich OA**	TO-15	MLS	10	PASI-M
10505905002	**1925 E. Norwich OA Cert 2415**	TO-15	AFV	9	PASI-M
10505905003	**1925 E. Norwich IA-B**	TO-15	MLS	10	PASI-M
10505905004	**1925 E. Norwich IA-B Cert 2685**	TO-15	MJL	9	PASI-M
10505905005	**1925 E. Norwich SS-1**	TO-15	MLS	10	PASI-M
10505905006	**1925 E. Norwich SS-1 Cert 0164**	TO-15	MJL	9	PASI-M
10505905007	**1925 E. Norwich Sump**	TO-15	MLS	10	PASI-M
10505905008	**1925 E. Norwich Sump Cert 0563**	TO-15	MJL	9	PASI-M

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ANALYTICAL RESULTS

Project: 1690004991 Shur-Line
Pace Project No.: 10505905

Sample: 1925 E. Norwich OA **Lab ID: 10505905001** Collected: 01/20/20 13:53 Received: 01/21/20 09:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Vinyl chloride	**<0.18**	ug/m3	0.37	0.18	1.44		01/21/20 16:21	75-01-4	
1,1-Dichloroethene	**<0.39**	ug/m3	1.2	0.39	1.44		01/21/20 16:21	75-35-4	
1,1-Dichloroethane	**<0.32**	ug/m3	1.2	0.32	1.44		01/21/20 16:21	75-34-3	
cis-1,2-Dichloroethene	**<0.32**	ug/m3	1.2	0.32	1.44		01/21/20 16:21	156-59-2	
1,1,1-Trichloroethane	**<0.44**	ug/m3	1.6	0.44	1.44		01/21/20 16:21	71-55-6	
1,1,2-Trichloroethane	**<0.35**	ug/m3	0.80	0.35	1.44		01/21/20 16:21	79-00-5	
1,2-Dichloroethane	**<0.22**	ug/m3	0.59	0.22	1.44		01/21/20 16:21	107-06-2	
Trichloroethene	**<0.36**	ug/m3	0.79	0.36	1.44		01/21/20 16:21	79-01-6	
Tetrachloroethene	**<0.45**	ug/m3	0.99	0.45	1.44		01/21/20 16:21	127-18-4	
trans-1,2-Dichloroethene	**<0.41**	ug/m3	1.2	0.41	1.44		01/21/20 16:21	156-60-5	

Sample: 1925 E. Norwich OA Cert 2415 **Lab ID: 10505905002** Collected: 01/20/20 13:53 Received: 01/21/20 09:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.11**	ug/m3	0.41	0.11	0.5		01/08/20 10:15	75-34-3	
1,1-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		01/08/20 10:15	75-35-4	
cis-1,2-Dichloroethene	**<0.11**	ug/m3	0.40	0.11	0.5		01/08/20 10:15	156-59-2	
trans-1,2-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		01/08/20 10:15	156-60-5	
Tetrachloroethene	**<0.16**	ug/m3	0.34	0.16	0.5		01/08/20 10:15	127-18-4	
1,1,1-Trichloroethane	**<0.15**	ug/m3	0.56	0.15	0.5		01/08/20 10:15	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/m3	0.28	0.12	0.5		01/08/20 10:15	79-00-5	
Trichloroethene	**<0.13**	ug/m3	0.27	0.13	0.5		01/08/20 10:15	79-01-6	
Vinyl chloride	**<0.063**	ug/m3	0.13	0.063	0.5		01/08/20 10:15	75-01-4	

Sample: 1925 E. Norwich IA-B **Lab ID: 10505905003** Collected: 01/20/20 13:57 Received: 01/21/20 09:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.36**	ug/m3	1.3	0.36	1.61		01/21/20 20:53	75-34-3	
1,2-Dichloroethane	**1.1**	ug/m3	0.66	0.24	1.61		01/21/20 20:53	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.3	0.44	1.61		01/21/20 20:53	75-35-4	
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		01/21/20 20:53	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		01/21/20 20:53	156-60-5	
Tetrachloroethene	**0.80J**	ug/m3	1.1	0.51	1.61		01/21/20 20:53	127-18-4	
1,1,1-Trichloroethane	**<0.50**	ug/m3	1.8	0.50	1.61		01/21/20 20:53	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/m3	0.89	0.39	1.61		01/21/20 20:53	79-00-5	
Trichloroethene	**<0.41**	ug/m3	0.88	0.41	1.61		01/21/20 20:53	79-01-6	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		01/21/20 20:53	75-01-4	

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ANALYTICAL RESULTS

Project: 1690004991 Shur-Line
Pace Project No.: 10505905

Sample: 1925 E. Norwich IA-B Cert 2685 **Lab ID: 10505905004** Collected: 01/20/20 13:57 Received: 01/21/20 09:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.11**	ug/m3	0.41	0.11	0.5		01/14/20 08:21	75-34-3	
1,1-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		01/14/20 08:21	75-35-4	
cis-1,2-Dichloroethene	**<0.11**	ug/m3	0.40	0.11	0.5		01/14/20 08:21	156-59-2	
trans-1,2-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		01/14/20 08:21	156-60-5	
Tetrachloroethene	**<0.16**	ug/m3	0.34	0.16	0.5		01/14/20 08:21	127-18-4	
1,1,1-Trichloroethane	**<0.15**	ug/m3	0.56	0.15	0.5		01/14/20 08:21	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/m3	0.28	0.12	0.5		01/14/20 08:21	79-00-5	
Trichloroethene	**<0.13**	ug/m3	0.27	0.13	0.5		01/14/20 08:21	79-01-6	
Vinyl chloride	**<0.063**	ug/m3	0.13	0.063	0.5		01/14/20 08:21	75-01-4	

Sample: 1925 E. Norwich SS-1 **Lab ID: 10505905005** Collected: 01/20/20 14:55 Received: 01/21/20 09:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.36**	ug/m3	1.3	0.36	1.61		01/21/20 17:21	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/m3	0.66	0.24	1.61		01/21/20 17:21	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.3	0.44	1.61		01/21/20 17:21	75-35-4	
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		01/21/20 17:21	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		01/21/20 17:21	156-60-5	
Tetrachloroethene	**7.8**	ug/m3	1.1	0.51	1.61		01/21/20 17:21	127-18-4	
1,1,1-Trichloroethane	**<0.50**	ug/m3	1.8	0.50	1.61		01/21/20 17:21	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/m3	0.89	0.39	1.61		01/21/20 17:21	79-00-5	
Trichloroethene	**<0.41**	ug/m3	0.88	0.41	1.61		01/21/20 17:21	79-01-6	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		01/21/20 17:21	75-01-4	

Sample: 1925 E. Norwich SS-1 Cert 0164 **Lab ID: 10505905006** Collected: 01/20/20 14:55 Received: 01/21/20 09:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.11**	ug/m3	0.41	0.11	0.5		01/14/20 15:43	75-34-3	
1,1-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		01/14/20 15:43	75-35-4	
cis-1,2-Dichloroethene	**<0.11**	ug/m3	0.40	0.11	0.5		01/14/20 15:43	156-59-2	
trans-1,2-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		01/14/20 15:43	156-60-5	
Tetrachloroethene	**<0.16**	ug/m3	0.34	0.16	0.5		01/14/20 15:43	127-18-4	
1,1,1-Trichloroethane	**<0.15**	ug/m3	0.56	0.15	0.5		01/14/20 15:43	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/m3	0.28	0.12	0.5		01/14/20 15:43	79-00-5	
Trichloroethene	**<0.13**	ug/m3	0.27	0.13	0.5		01/14/20 15:43	79-01-6	
Vinyl chloride	**<0.063**	ug/m3	0.13	0.063	0.5		01/14/20 15:43	75-01-4	

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ANALYTICAL RESULTS

Project: 1690004991 Shur-Line
Pace Project No.: 10505905

Sample: 1925 E. Norwich Sump **Lab ID: 10505905007** Collected: 01/20/20 14:52 Received: 01/21/20 09:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		01/21/20 17:51	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		01/21/20 17:51	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		01/21/20 17:51	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		01/21/20 17:51	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		01/21/20 17:51	156-60-5	
Tetrachloroethene	**6.5**	ug/m3	1.2	0.55	1.75		01/21/20 17:51	127-18-4	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		01/21/20 17:51	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/m3	0.97	0.42	1.75		01/21/20 17:51	79-00-5	
Trichloroethene	**<0.44**	ug/m3	0.96	0.44	1.75		01/21/20 17:51	79-01-6	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		01/21/20 17:51	75-01-4	

Sample: 1925 E. Norwich Sump Cert 0563 **Lab ID: 10505905008** Collected: 01/20/20 14:52 Received: 01/21/20 09:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.11**	ug/m3	0.41	0.11	0.5		01/08/20 08:53	75-34-3	
1,1-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		01/08/20 08:53	75-35-4	
cis-1,2-Dichloroethene	**<0.11**	ug/m3	0.40	0.11	0.5		01/08/20 08:53	156-59-2	
trans-1,2-Dichloroethene	**<0.14**	ug/m3	0.40	0.14	0.5		01/08/20 08:53	156-60-5	
Tetrachloroethene	**<0.16**	ug/m3	0.34	0.16	0.5		01/08/20 08:53	127-18-4	
1,1,1-Trichloroethane	**<0.15**	ug/m3	0.56	0.15	0.5		01/08/20 08:53	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/m3	0.28	0.12	0.5		01/08/20 08:53	79-00-5	
Trichloroethene	**<0.13**	ug/m3	0.27	0.13	0.5		01/08/20 08:53	79-01-6	
Vinyl chloride	**<0.063**	ug/m3	0.13	0.063	0.5		01/08/20 08:53	75-01-4	

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QUALITY CONTROL DATA

Project: 1690004991 Shur-Line
Pace Project No.: 10505905

QC Batch: 655792 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10505905001, 10505905003, 10505905005, 10505905007

METHOD BLANK: 3523484 | Matrix: Air
Associated Lab Samples: 10505905001, 10505905003, 10505905005, 10505905007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	0.56	01/21/20 08:42	
1,1,2-Trichloroethane	ug/m3	<0.12	0.28	01/21/20 08:42	
1,1-Dichloroethane	ug/m3	<0.11	0.41	01/21/20 08:42	
1,1-Dichloroethene	ug/m3	<0.14	0.40	01/21/20 08:42	
1,2-Dichloroethane	ug/m3	<0.075	0.21	01/21/20 08:42	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	01/21/20 08:42	
Tetrachloroethene	ug/m3	<0.16	0.34	01/21/20 08:42	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	01/21/20 08:42	
Trichloroethene	ug/m3	<0.13	0.27	01/21/20 08:42	
Vinyl chloride	ug/m3	<0.063	0.13	01/21/20 08:42	

LABORATORY CONTROL SAMPLE: 3523485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	50.1	90	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	52.7	95	70-133	
1,1-Dichloroethane	ug/m3	41.1	37.2	90	70-130	
1,1-Dichloroethene	ug/m3	40.3	37.4	93	69-137	
1,2-Dichloroethane	ug/m3	41.1	37.6	91	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	36.9	91	70-132	
Tetrachloroethene	ug/m3	68.9	60.6	88	70-136	
trans-1,2-Dichloroethene	ug/m3	40.3	37.6	93	70-132	
Trichloroethene	ug/m3	54.6	50.4	92	70-132	
Vinyl chloride	ug/m3	26	23.1	89	68-141	

SAMPLE DUPLICATE: 3524234

Parameter	Units	10505905001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.44	<0.44		25	
1,1,2-Trichloroethane	ug/m3	<0.35	<0.35		25	
1,1-Dichloroethane	ug/m3	<0.32	<0.32		25	
1,1-Dichloroethene	ug/m3	<0.39	<0.39		25	
1,2-Dichloroethane	ug/m3	<0.22	<0.22		25	
cis-1,2-Dichloroethene	ug/m3	<0.32	<0.32		25	
Tetrachloroethene	ug/m3	<0.45	<0.45		25	
trans-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
Trichloroethene	ug/m3	<0.36	<0.36		25	
Vinyl chloride	ug/m3	<0.18	<0.18		25	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 1690004991 Shur-Line
Pace Project No.: 10505905

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690004991 Shur-Line
Pace Project No.: 10505905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10505905001	**1925 E. Norwich OA**	TO-15	655792		
10505905003	**1925 E. Norwich IA-B**	TO-15	655792		
10505905005	**1925 E. Norwich SS-1**	TO-15	655792		
10505905007	**1925 E. Norwich Sump**	TO-15	655792		
10505905002	**1925 E. Norwich OA Cert 2415**	TO-15	656185		
10505905004	**1925 E. Norwich IA-B Cert 2685**	TO-15	656185		
10505905006	**1925 E. Norwich SS-1 Cert 0164**	TO-15	656185		
10505905008	**1925 E. Norwich Sump Cert 0563**	TO-15	656185		

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AIR: CHAIN-OF-CUSTODY

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

WO# : 10505905

10505905

43455

Page: 1 of 1

Section A Required Client Information:

Company: Rambeil
Address: 175 N. Corporate Dr. Suite 160
Brookfield WI 53045
Email To: Kyle Hemstead
Phone: 262 901 0129 Fax:
Requested Due Date/TAT: 1/23/2020

Section B Required Project Information:

Report To: Susan Petrofske
Copy To: Paul Lindquist
Purchase Order No.:
Project Name: Shur-Line
Project Number: 168000 4991

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 40627

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

Location of Sampling by State WI

Reporting Units: ug/m³___ mg/m³___ PPBV___ PPMV___ Other___

Report Level II.___ III.___ IV.___ Other____

Section D Required Client Information — AIR SAMPLE ID

Sample IDs MUST BE UNIQUE

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

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	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	1925 E. Norwich OA	6LC		1/19/2020	1407	1/20/2020	1353	-30	-3	2415	0013									X	001,002
2	1925 E. Norwich IA-B	6LC		1/19/2020	1410	1/20/2020	1357	-29	-4	2685	1453									X	003,004
3	1925 E. Norwich SS-1	6LC		1/20/2020	1417	1/20/2020	1455	-30	-5	164	1822									X	005,006
4	1925 E. Norwich SUMP	6LC		1/20/2020	1415	1/20/2020	1452	-28	-5	563	1218									X	007,008
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments:

Report analytes outlined in paul Lindquists email dated 11/5/19.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Kyle Hemstead / Rambeil	1/20/2020	1510	FedEx	1/20/2020	
			[illegible] PACE	1/21/2020	940

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Hemstead

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 1/20/2020

ORIGINAL

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

Air Sample Condition Upon Receipt

Client Name: RAMBOLL

Project #: WO#: 10505905

PM: CT1 Due Date: 01/23/20

CLIENT: Ramboll-WI

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

Tracking Number: 1083 0283 9496

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

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

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

Thermometer Used: ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 1/21/20 CMY

Type of ice Received ☐ Blue ☐ Wet ☒ None

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

Gauge # ☒ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
0A	2415	0013	-2	+5					
1A-B	2685	1453	-5	+5					
SS-1	0164	1822	-5	+5					
SUMP	0563	1218	-7	+5					

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

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolyne Hunt **Date:** 1/21/20

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

Table 1. Vapor Analytical Results
1925 East Norwich Avenue
St. Francis, Wisconsin
Ramboll Project No. 1690004991

DRAFT

				Sub-Slab		Indoor Air		Outdoor Air		Sump	
Target Analyte (µg/m³)	**CAS No.**	Indoor Air VAL[1]	Sub-Slab Vapor VRSL[1]	SS-1		IA-B		OA		Sump	
				11/21/2019	1/20/2020	11/21/2019	1/20/2020	11/21/2019	1/20/2020	11/21/2019	1/20/2020
Dichloroethane, 1,1-	75-34-3	18	600	<0.34	<0.36	<0.34	<0.36	<0.34	<0.32	<0.35	<0.39
Dichloroethane, 1,2-	107-06-2	1.1	37	<0.22	<0.24	**2.2 B**	**1.1 B**	<0.22	<0.22	<0.23	<0.26
Dichloroethylene, 1,1-	75-35-4	210	7,000	<0.41	<0.44	<0.41	<0.44	<0.41	<0.39	<0.42	<0.48
Dichloroethylene, 1,2-cis-	156-59-2	--	--	<0.33	<0.35	<0.33	<0.35	<0.33	<0.32	<0.34	<0.38
Dichloroethylene, 1,2-trans-	156-60-5	--	--	<0.42	<0.46	<0.42	<0.46	<0.42	<0.41	<0.44	<0.50
Tetrachloroethylene	127-18-4	42	1,400	8.9	7.8	<0.47	0.80 J	<0.47	<0.45	<0.49	6.5
Trichloroethane, 1,1,1-	71-55-6	5,200	170,000	<0.46	<0.50	<0.46	<0.50	<0.46	<0.44	<0.48	<0.54
Trichloroethane, 1,1,2-	79-00-5	0.21	7	<0.36	<0.39	<0.36	<0.39	<0.36	<0.35	<0.38	<0.42
Trichloroethylene	79-01-6	2.1	70	<0.38	<0.41	<0.38	<0.41	<0.38	<0.36	<0.39	<0.44
Vinyl Chloride	75-01-4	1.7	57	<0.19	<0.20	<0.19	<0.20	<0.19	<0.18	<0.20	<0.22

Notes:
Standards based on May 2019 USEPA Regional Screening Level (RSL) Tables.
Samples analyzed using USEPA Method TO-15.
µg/m³ = Microgram per cubic meter
VAL= Indoor Air Vapor Action Level
VRSL = Vapor Risk Screening Level
[1] Indoor Air VALs and Sub-Slab Vapor VRSLs are based on an USEPA risk level of 1 in 100,000 or a Hazard Index of 1, whichever is more stringent.
A = Sub-Slab Sample Exceeds Residential VRSL
B = Indoor Air Sample Exceeds Residential VAL
J = Estimated concentration at or above the level of detection (LOD)
-- No RSL established.