

March 21, 2019

Jim DeMartinis  
Seacliff Environmental, Inc.  
P.O. Box 2085  
Miller Place, NY 11764

RE: Project: 118-130 SWALM STREET  
Pace Project No.: 7081066

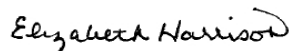
Dear Jim DeMartinis:

Enclosed are the analytical results for sample(s) received by the laboratory on March 01, 2019. 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.

Air analysis was subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

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

Sincerely,



Elizabeth Harrison  
betty.harrison@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

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### Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

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

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: 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

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 ANALYTE COUNT

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7081066001	OUTSIDE	TO-15	MLS	61	PASI-M
7081066002	IA-1	TO-15	MLS	61	PASI-M
7081066003	SSV-1	TO-15	MLS	61	PASI-M
7081066004	IA-2	TO-15	MLS	61	PASI-M
7081066005	SSV-2	TO-15	MLS	61	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 118-130 SWALM STREET  
Pace Project No.: 7081066

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**Method:** TO-15  
**Description:** TO15 MSV AIR  
**Client:** Seacliff Environmental, Inc.  
**Date:** March 21, 2019

**General Information:**

5 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: <b>OUTSIDE</b>	Lab ID: <b>7081066001</b>	Collected: 02/28/19 15:32	Received: 03/01/19 12:06	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	17.8	ug/m3	3.4	1.41		03/19/19 11:59	67-64-1	
Benzene	1.1	ug/m3	0.46	1.41		03/19/19 11:59	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.7	1.41		03/19/19 11:59	100-44-7	
Bromodichloromethane	<0.52	ug/m3	1.9	1.41		03/19/19 11:59	75-27-4	
Bromoform	<2.0	ug/m3	7.4	1.41		03/19/19 11:59	75-25-2	
Bromomethane	<0.32	ug/m3	1.1	1.41		03/19/19 11:59	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.63	1.41		03/19/19 11:59	106-99-0	
2-Butanone (MEK)	1.2J	ug/m3	4.2	1.41		03/19/19 11:59	78-93-3	
Carbon disulfide	<0.31	ug/m3	0.89	1.41		03/19/19 11:59	75-15-0	
Carbon tetrachloride	<0.60	ug/m3	1.8	1.41		03/19/19 11:59	56-23-5	
Chlorobenzene	<0.39	ug/m3	1.3	1.41		03/19/19 11:59	108-90-7	
Chloroethane	<0.37	ug/m3	0.76	1.41		03/19/19 11:59	75-00-3	
Chloroform	<0.28	ug/m3	0.70	1.41		03/19/19 11:59	67-66-3	
Chloromethane	1.2	ug/m3	0.59	1.41		03/19/19 11:59	74-87-3	
Cyclohexane	<0.50	ug/m3	2.5	1.41		03/19/19 11:59	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.4	1.41		03/19/19 11:59	124-48-1	
1,2-Dibromoethane (EDB)	<0.52	ug/m3	1.1	1.41		03/19/19 11:59	106-93-4	
1,2-Dichlorobenzene	<0.70	ug/m3	1.7	1.41		03/19/19 11:59	95-50-1	
1,3-Dichlorobenzene	<0.82	ug/m3	1.7	1.41		03/19/19 11:59	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.3	1.41		03/19/19 11:59	106-46-7	
Dichlorodifluoromethane	2.7	ug/m3	1.4	1.41		03/19/19 11:59	75-71-8	
1,1-Dichloroethane	<0.32	ug/m3	1.2	1.41		03/19/19 11:59	75-34-3	
1,2-Dichloroethane	<0.21	ug/m3	0.58	1.41		03/19/19 11:59	107-06-2	
1,1-Dichloroethene	<0.39	ug/m3	1.1	1.41		03/19/19 11:59	75-35-4	
cis-1,2-Dichloroethene	<0.31	ug/m3	1.1	1.41		03/19/19 11:59	156-59-2	
trans-1,2-Dichloroethene	<0.40	ug/m3	1.1	1.41		03/19/19 11:59	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.3	1.41		03/19/19 11:59	78-87-5	
cis-1,3-Dichloropropene	<0.43	ug/m3	1.3	1.41		03/19/19 11:59	10061-01-5	
trans-1,3-Dichloropropene	<0.62	ug/m3	1.3	1.41		03/19/19 11:59	10061-02-6	
Dichlorotetrafluoroethane	<0.62	ug/m3	2.0	1.41		03/19/19 11:59	76-14-2	
Ethanol	6.7	ug/m3	2.7	1.41		03/19/19 11:59	64-17-5	
Ethyl acetate	0.30J	ug/m3	1.0	1.41		03/19/19 11:59	141-78-6	
Ethylbenzene	<0.43	ug/m3	1.2	1.41		03/19/19 11:59	100-41-4	
4-Ethyltoluene	<0.80	ug/m3	3.5	1.41		03/19/19 11:59	622-96-8	
n-Heptane	<0.54	ug/m3	1.2	1.41		03/19/19 11:59	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	7.6	1.41		03/19/19 11:59	87-68-3	
n-Hexane	12.8	ug/m3	1.4	1.89		03/19/19 22:30	110-54-3	
2-Hexanone	<1.1	ug/m3	5.9	1.41		03/19/19 11:59	591-78-6	
Methylene Chloride	118	ug/m3	6.7	1.89		03/19/19 22:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.73	ug/m3	5.9	1.41		03/19/19 11:59	108-10-1	
Methyl-tert-butyl ether	<0.93	ug/m3	5.2	1.41		03/19/19 11:59	1634-04-4	
Naphthalene	<1.9	ug/m3	3.8	1.41		03/19/19 11:59	91-20-3	
2-Propanol	5.3	ug/m3	3.5	1.41		03/19/19 11:59	67-63-0	
Propylene	<0.20	ug/m3	0.49	1.41		03/19/19 11:59	115-07-1	
Styrene	<0.49	ug/m3	1.2	1.41		03/19/19 11:59	100-42-5	
1,1,2,2-Tetrachloroethane	<0.41	ug/m3	0.98	1.41		03/19/19 11:59	79-34-5	
Tetrachloroethene	<0.44	ug/m3	0.97	1.41		03/19/19 11:59	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: <b>OUTSIDE</b>		Lab ID: <b>7081066001</b>	Collected: 02/28/19 15:32	Received: 03/01/19 12:06	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Tetrahydrofuran	<0.37	ug/m3	0.85	1.41		03/19/19 11:59	109-99-9	
Toluene	1.9	ug/m3	1.1	1.41		03/19/19 11:59	108-88-3	
1,2,4-Trichlorobenzene	<5.2	ug/m3	10.6	1.41		03/19/19 11:59	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/m3	1.6	1.41		03/19/19 11:59	71-55-6	
1,1,2-Trichloroethane	<0.35	ug/m3	0.78	1.41		03/19/19 11:59	79-00-5	
Trichloroethene	<0.36	ug/m3	0.77	1.41		03/19/19 11:59	79-01-6	
Trichlorofluoromethane	<0.52	ug/m3	1.6	1.41		03/19/19 11:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.80	ug/m3	2.2	1.41		03/19/19 11:59	76-13-1	
1,2,4-Trimethylbenzene	<0.64	ug/m3	1.4	1.41		03/19/19 11:59	95-63-6	
1,3,5-Trimethylbenzene	<0.56	ug/m3	1.4	1.41		03/19/19 11:59	108-67-8	
Vinyl acetate	<0.38	ug/m3	1.0	1.41		03/19/19 11:59	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.37	1.41		03/19/19 11:59	75-01-4	
m&p-Xylene	<0.99	ug/m3	2.5	1.41		03/19/19 11:59	179601-23-1	
o-Xylene	<0.49	ug/m3	1.2	1.41		03/19/19 11:59	95-47-6	

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### ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: IA-1	Lab ID: 7081066002	Collected: 02/28/19 16:01	Received: 03/01/19 12:06	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	8.8	ug/m3	3.3	1.39		03/19/19 12:27	67-64-1	
Benzene	0.82	ug/m3	0.45	1.39		03/19/19 12:27	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.7	1.39		03/19/19 12:27	100-44-7	
Bromodichloromethane	<0.51	ug/m3	1.9	1.39		03/19/19 12:27	75-27-4	
Bromoform	<2.0	ug/m3	7.3	1.39		03/19/19 12:27	75-25-2	
Bromomethane	<0.32	ug/m3	1.1	1.39		03/19/19 12:27	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.63	1.39		03/19/19 12:27	106-99-0	
2-Butanone (MEK)	3.5J	ug/m3	4.2	1.39		03/19/19 12:27	78-93-3	
Carbon disulfide	<0.30	ug/m3	0.88	1.39		03/19/19 12:27	75-15-0	
Carbon tetrachloride	<0.60	ug/m3	1.8	1.39		03/19/19 12:27	56-23-5	
Chlorobenzene	<0.38	ug/m3	1.3	1.39		03/19/19 12:27	108-90-7	
Chloroethane	<0.36	ug/m3	0.75	1.39		03/19/19 12:27	75-00-3	
Chloroform	<0.27	ug/m3	0.69	1.39		03/19/19 12:27	67-66-3	
Chloromethane	0.83	ug/m3	0.58	1.39		03/19/19 12:27	74-87-3	
Cyclohexane	<0.49	ug/m3	2.4	1.39		03/19/19 12:27	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.4	1.39		03/19/19 12:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.51	ug/m3	1.1	1.39		03/19/19 12:27	106-93-4	
1,2-Dichlorobenzene	<0.69	ug/m3	1.7	1.39		03/19/19 12:27	95-50-1	
1,3-Dichlorobenzene	<0.81	ug/m3	1.7	1.39		03/19/19 12:27	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.3	1.39		03/19/19 12:27	106-46-7	
Dichlorodifluoromethane	2.5	ug/m3	1.4	1.39		03/19/19 12:27	75-71-8	
1,1-Dichloroethane	<0.31	ug/m3	1.1	1.39		03/19/19 12:27	75-34-3	
1,2-Dichloroethane	<0.21	ug/m3	0.57	1.39		03/19/19 12:27	107-06-2	
1,1-Dichloroethene	<0.38	ug/m3	1.1	1.39		03/19/19 12:27	75-35-4	
cis-1,2-Dichloroethene	<0.30	ug/m3	1.1	1.39		03/19/19 12:27	156-59-2	
trans-1,2-Dichloroethene	<0.40	ug/m3	1.1	1.39		03/19/19 12:27	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.3	1.39		03/19/19 12:27	78-87-5	
cis-1,3-Dichloropropene	<0.42	ug/m3	1.3	1.39		03/19/19 12:27	10061-01-5	
trans-1,3-Dichloropropene	<0.61	ug/m3	1.3	1.39		03/19/19 12:27	10061-02-6	
Dichlorotetrafluoroethane	<0.61	ug/m3	2.0	1.39		03/19/19 12:27	76-14-2	
Ethanol	6.9	ug/m3	2.7	1.39		03/19/19 12:27	64-17-5	
Ethyl acetate	<0.26	ug/m3	1.0	1.39		03/19/19 12:27	141-78-6	
Ethylbenzene	<0.42	ug/m3	1.2	1.39		03/19/19 12:27	100-41-4	
4-Ethyltoluene	<0.79	ug/m3	3.5	1.39		03/19/19 12:27	622-96-8	
n-Heptane	<0.53	ug/m3	1.2	1.39		03/19/19 12:27	142-82-5	
Hexachloro-1,3-butadiene	<2.7	ug/m3	7.5	1.39		03/19/19 12:27	87-68-3	
n-Hexane	2.6	ug/m3	1.0	1.39		03/19/19 12:27	110-54-3	
2-Hexanone	<1.0	ug/m3	5.8	1.39		03/19/19 12:27	591-78-6	
Methylene Chloride	5.0	ug/m3	4.9	1.39		03/19/19 12:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.72	ug/m3	5.8	1.39		03/19/19 12:27	108-10-1	
Methyl-tert-butyl ether	<0.92	ug/m3	5.1	1.39		03/19/19 12:27	1634-04-4	
Naphthalene	<1.8	ug/m3	3.7	1.39		03/19/19 12:27	91-20-3	
2-Propanol	1.5J	ug/m3	3.5	1.39		03/19/19 12:27	67-63-0	
Propylene	<0.20	ug/m3	0.49	1.39		03/19/19 12:27	115-07-1	
Styrene	<0.48	ug/m3	1.2	1.39		03/19/19 12:27	100-42-5	
1,1,2,2-Tetrachloroethane	<0.41	ug/m3	0.97	1.39		03/19/19 12:27	79-34-5	
Tetrachloroethene	1.2	ug/m3	0.96	1.39		03/19/19 12:27	127-18-4	

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### ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: IA-1	Lab ID: 7081066002	Collected: 02/28/19 16:01	Received: 03/01/19 12:06	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>	Analytical Method: TO-15							
Tetrahydrofuran	<0.36	ug/m3	0.83	1.39		03/19/19 12:27	109-99-9	
Toluene	4.4	ug/m3	1.1	1.39		03/19/19 12:27	108-88-3	
1,2,4-Trichlorobenzene	<5.2	ug/m3	10.5	1.39		03/19/19 12:27	120-82-1	
1,1,1-Trichloroethane	<0.43	ug/m3	1.5	1.39		03/19/19 12:27	71-55-6	
1,1,2-Trichloroethane	<0.35	ug/m3	0.77	1.39		03/19/19 12:27	79-00-5	
Trichloroethene	<0.36	ug/m3	0.76	1.39		03/19/19 12:27	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.6	1.39		03/19/19 12:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.78	ug/m3	2.2	1.39		03/19/19 12:27	76-13-1	
1,2,4-Trimethylbenzene	<0.63	ug/m3	1.4	1.39		03/19/19 12:27	95-63-6	
1,3,5-Trimethylbenzene	<0.55	ug/m3	1.4	1.39		03/19/19 12:27	108-67-8	
Vinyl acetate	<0.38	ug/m3	1.0	1.39		03/19/19 12:27	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.36	1.39		03/19/19 12:27	75-01-4	
m&p-Xylene	<0.97	ug/m3	2.5	1.39		03/19/19 12:27	179601-23-1	
o-Xylene	<0.48	ug/m3	1.2	1.39		03/19/19 12:27	95-47-6	

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## ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: SSV-1	Lab ID: 7081066003	Collected: 02/28/19 16:02	Received: 03/01/19 12:06	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	128	ug/m3	3.1	1.3		03/19/19 19:08	67-64-1	
Benzene	5.2	ug/m3	0.42	1.3		03/19/19 19:08	71-43-2	
Benzyl chloride	<1.6	ug/m3	3.4	1.3		03/19/19 19:08	100-44-7	
Bromodichloromethane	<0.48	ug/m3	1.8	1.3		03/19/19 19:08	75-27-4	
Bromoform	<1.8	ug/m3	6.8	1.3		03/19/19 19:08	75-25-2	
Bromomethane	<0.30	ug/m3	1.0	1.3		03/19/19 19:08	74-83-9	
1,3-Butadiene	<0.17	ug/m3	0.58	1.3		03/19/19 19:08	106-99-0	
2-Butanone (MEK)	15.7	ug/m3	3.9	1.3		03/19/19 19:08	78-93-3	
Carbon disulfide	6.8	ug/m3	0.82	1.3		03/19/19 19:08	75-15-0	
Carbon tetrachloride	<0.56	ug/m3	1.7	1.3		03/19/19 19:08	56-23-5	
Chlorobenzene	<0.36	ug/m3	1.2	1.3		03/19/19 19:08	108-90-7	
Chloroethane	<0.34	ug/m3	0.70	1.3		03/19/19 19:08	75-00-3	
Chloroform	5.1	ug/m3	0.64	1.3		03/19/19 19:08	67-66-3	
Chloromethane	0.85	ug/m3	0.55	1.3		03/19/19 19:08	74-87-3	
Cyclohexane	<0.46	ug/m3	2.3	1.3		03/19/19 19:08	110-82-7	
Dibromochloromethane	<0.93	ug/m3	2.2	1.3		03/19/19 19:08	124-48-1	
1,2-Dibromoethane (EDB)	<0.48	ug/m3	1.0	1.3		03/19/19 19:08	106-93-4	
1,2-Dichlorobenzene	<0.65	ug/m3	1.6	1.3		03/19/19 19:08	95-50-1	
1,3-Dichlorobenzene	<0.76	ug/m3	1.6	1.3		03/19/19 19:08	541-73-1	
1,4-Dichlorobenzene	<1.3	ug/m3	4.0	1.3		03/19/19 19:08	106-46-7	
Dichlorodifluoromethane	3.1	ug/m3	1.3	1.3		03/19/19 19:08	75-71-8	
1,1-Dichloroethane	<0.29	ug/m3	1.1	1.3		03/19/19 19:08	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	0.53	1.3		03/19/19 19:08	107-06-2	
1,1-Dichloroethene	<0.36	ug/m3	1.0	1.3		03/19/19 19:08	75-35-4	
cis-1,2-Dichloroethene	<0.28	ug/m3	1.0	1.3		03/19/19 19:08	156-59-2	
trans-1,2-Dichloroethene	<0.37	ug/m3	1.0	1.3		03/19/19 19:08	156-60-5	
1,2-Dichloropropane	<0.30	ug/m3	1.2	1.3		03/19/19 19:08	78-87-5	
cis-1,3-Dichloropropene	<0.40	ug/m3	1.2	1.3		03/19/19 19:08	10061-01-5	
trans-1,3-Dichloropropene	<0.57	ug/m3	1.2	1.3		03/19/19 19:08	10061-02-6	
Dichlorotetrafluoroethane	<0.57	ug/m3	1.8	1.3		03/19/19 19:08	76-14-2	
Ethanol	50.6	ug/m3	2.5	1.3		03/19/19 19:08	64-17-5	
Ethyl acetate	<0.25	ug/m3	0.95	1.3		03/19/19 19:08	141-78-6	
Ethylbenzene	5.4	ug/m3	1.1	1.3		03/19/19 19:08	100-41-4	
4-Ethyltoluene	2.9J	ug/m3	3.2	1.3		03/19/19 19:08	622-96-8	
n-Heptane	12.4	ug/m3	1.1	1.3		03/19/19 19:08	142-82-5	
Hexachloro-1,3-butadiene	<2.6	ug/m3	7.0	1.3		03/19/19 19:08	87-68-3	
n-Hexane	25.1	ug/m3	0.93	1.3		03/19/19 19:08	110-54-3	
2-Hexanone	1.8J	ug/m3	5.4	1.3		03/19/19 19:08	591-78-6	
Methylene Chloride	3.4J	ug/m3	4.6	1.3		03/19/19 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	2.1J	ug/m3	5.4	1.3		03/19/19 19:08	108-10-1	
Methyl-tert-butyl ether	<0.86	ug/m3	4.8	1.3		03/19/19 19:08	1634-04-4	
Naphthalene	2.5J	ug/m3	3.5	1.3		03/19/19 19:08	91-20-3	
2-Propanol	6.3	ug/m3	3.2	1.3		03/19/19 19:08	67-63-0	
Propylene	<0.19	ug/m3	0.46	1.3		03/19/19 19:08	115-07-1	
Styrene	0.79J	ug/m3	1.1	1.3		03/19/19 19:08	100-42-5	
1,1,2,2-Tetrachloroethane	<0.38	ug/m3	0.91	1.3		03/19/19 19:08	79-34-5	
Tetrachloroethene	855	ug/m3	35.8	52		03/20/19 11:42	127-18-4	

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### ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: SSV-1		Lab ID: 7081066003		Collected: 02/28/19 16:02		Received: 03/01/19 12:06		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrahydrofuran	<0.34	ug/m3	0.78	1.3		03/19/19 19:08	109-99-9		
Toluene	20.5	ug/m3	1.0	1.3		03/19/19 19:08	108-88-3		
1,2,4-Trichlorobenzene	<4.8	ug/m3	9.8	1.3		03/19/19 19:08	120-82-1		
1,1,1-Trichloroethane	40.1	ug/m3	1.4	1.3		03/19/19 19:08	71-55-6		
1,1,2-Trichloroethane	<0.32	ug/m3	0.72	1.3		03/19/19 19:08	79-00-5		
Trichloroethene	204	ug/m3	28.4	52		03/20/19 11:42	79-01-6		
Trichlorofluoromethane	1.9	ug/m3	1.5	1.3		03/19/19 19:08	75-69-4		
1,1,2-Trichlorotrifluoroethane	<0.73	ug/m3	2.0	1.3		03/19/19 19:08	76-13-1		
1,2,4-Trimethylbenzene	11.5	ug/m3	1.3	1.3		03/19/19 19:08	95-63-6		
1,3,5-Trimethylbenzene	3.1	ug/m3	1.3	1.3		03/19/19 19:08	108-67-8		
Vinyl acetate	<0.35	ug/m3	0.93	1.3		03/19/19 19:08	108-05-4		
Vinyl chloride	<0.16	ug/m3	0.34	1.3		03/19/19 19:08	75-01-4		
m&p-Xylene	23.6	ug/m3	2.3	1.3		03/19/19 19:08	179601-23-1		
o-Xylene	9.0	ug/m3	1.1	1.3		03/19/19 19:08	95-47-6		

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### ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: IA-2	Lab ID: 7081066004	Collected: 02/28/19 16:10	Received: 03/01/19 12:06	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	13.3	ug/m3	6.9	2.88		03/19/19 13:25	67-64-1	
Benzene	1.4	ug/m3	0.94	2.88		03/19/19 13:25	71-43-2	
Benzyl chloride	<3.5	ug/m3	7.6	2.88		03/19/19 13:25	100-44-7	
Bromodichloromethane	<1.1	ug/m3	3.9	2.88		03/19/19 13:25	75-27-4	
Bromoform	<4.1	ug/m3	15.1	2.88		03/19/19 13:25	75-25-2	
Bromomethane	<0.65	ug/m3	2.3	2.88		03/19/19 13:25	74-83-9	
1,3-Butadiene	<0.37	ug/m3	1.3	2.88		03/19/19 13:25	106-99-0	
2-Butanone (MEK)	2.6J	ug/m3	8.6	2.88		03/19/19 13:25	78-93-3	
Carbon disulfide	<0.63	ug/m3	1.8	2.88		03/19/19 13:25	75-15-0	
Carbon tetrachloride	<1.2	ug/m3	3.7	2.88		03/19/19 13:25	56-23-5	
Chlorobenzene	<0.79	ug/m3	2.7	2.88		03/19/19 13:25	108-90-7	
Chloroethane	<0.75	ug/m3	1.5	2.88		03/19/19 13:25	75-00-3	
Chloroform	<0.56	ug/m3	1.4	2.88		03/19/19 13:25	67-66-3	
Chloromethane	0.73J	ug/m3	1.2	2.88		03/19/19 13:25	74-87-3	
Cyclohexane	1.1J	ug/m3	5.0	2.88		03/19/19 13:25	110-82-7	
Dibromochloromethane	<2.1	ug/m3	5.0	2.88		03/19/19 13:25	124-48-1	
1,2-Dibromoethane (EDB)	<1.1	ug/m3	2.2	2.88		03/19/19 13:25	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/m3	3.5	2.88		03/19/19 13:25	95-50-1	
1,3-Dichlorobenzene	<1.7	ug/m3	3.5	2.88		03/19/19 13:25	541-73-1	
1,4-Dichlorobenzene	<2.9	ug/m3	8.8	2.88		03/19/19 13:25	106-46-7	
Dichlorodifluoromethane	2.1J	ug/m3	2.9	2.88		03/19/19 13:25	75-71-8	
1,1-Dichloroethane	<0.65	ug/m3	2.4	2.88		03/19/19 13:25	75-34-3	
1,2-Dichloroethane	<0.43	ug/m3	1.2	2.88		03/19/19 13:25	107-06-2	
1,1-Dichloroethene	<0.79	ug/m3	2.3	2.88		03/19/19 13:25	75-35-4	
cis-1,2-Dichloroethene	<0.63	ug/m3	2.3	2.88		03/19/19 13:25	156-59-2	
trans-1,2-Dichloroethene	<0.82	ug/m3	2.3	2.88		03/19/19 13:25	156-60-5	
1,2-Dichloropropane	<0.66	ug/m3	2.7	2.88		03/19/19 13:25	78-87-5	
cis-1,3-Dichloropropene	<0.88	ug/m3	2.7	2.88		03/19/19 13:25	10061-01-5	
trans-1,3-Dichloropropene	<1.3	ug/m3	2.7	2.88		03/19/19 13:25	10061-02-6	
Dichlorotetrafluoroethane	<1.3	ug/m3	4.1	2.88		03/19/19 13:25	76-14-2	
Ethanol	30.1	ug/m3	5.5	2.88		03/19/19 13:25	64-17-5	
Ethyl acetate	<0.55	ug/m3	2.1	2.88		03/19/19 13:25	141-78-6	
Ethylbenzene	0.91J	ug/m3	2.5	2.88		03/19/19 13:25	100-41-4	
4-Ethyltoluene	<1.6	ug/m3	7.2	2.88		03/19/19 13:25	622-96-8	
n-Heptane	1.8J	ug/m3	2.4	2.88		03/19/19 13:25	142-82-5	
Hexachloro-1,3-butadiene	<5.7	ug/m3	15.6	2.88		03/19/19 13:25	87-68-3	
n-Hexane	6.3	ug/m3	2.1	2.88		03/19/19 13:25	110-54-3	
2-Hexanone	<2.1	ug/m3	12.0	2.88		03/19/19 13:25	591-78-6	
Methylene Chloride	5.9J	ug/m3	10.2	2.88		03/19/19 13:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.5	ug/m3	12.0	2.88		03/19/19 13:25	108-10-1	
Methyl-tert-butyl ether	<1.9	ug/m3	10.5	2.88		03/19/19 13:25	1634-04-4	
Naphthalene	<3.8	ug/m3	7.7	2.88		03/19/19 13:25	91-20-3	
2-Propanol	17.5	ug/m3	7.2	2.88		03/19/19 13:25	67-63-0	
Propylene	<0.41	ug/m3	1.0	2.88		03/19/19 13:25	115-07-1	
Styrene	<0.99	ug/m3	2.5	2.88		03/19/19 13:25	100-42-5	
1,1,2,2-Tetrachloroethane	<0.84	ug/m3	2.0	2.88		03/19/19 13:25	79-34-5	
Tetrachloroethene	<0.90	ug/m3	2.0	2.88		03/19/19 13:25	127-18-4	

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## ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: IA-2		Lab ID: 7081066004		Collected: 02/28/19 16:10		Received: 03/01/19 12:06		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrahydrofuran	<0.75	ug/m3	1.7	2.88		03/19/19 13:25	109-99-9		
Toluene	7.3	ug/m3	2.2	2.88		03/19/19 13:25	108-88-3		
1,2,4-Trichlorobenzene	<10.7	ug/m3	21.7	2.88		03/19/19 13:25	120-82-1		
1,1,1-Trichloroethane	<0.89	ug/m3	3.2	2.88		03/19/19 13:25	71-55-6		
1,1,2-Trichloroethane	<0.72	ug/m3	1.6	2.88		03/19/19 13:25	79-00-5		
Trichloroethene	<0.74	ug/m3	1.6	2.88		03/19/19 13:25	79-01-6		
Trichlorofluoromethane	1.1J	ug/m3	3.3	2.88		03/19/19 13:25	75-69-4		
1,1,2-Trichlorotrifluoroethane	<1.6	ug/m3	4.5	2.88		03/19/19 13:25	76-13-1		
1,2,4-Trimethylbenzene	1.7J	ug/m3	2.9	2.88		03/19/19 13:25	95-63-6		
1,3,5-Trimethylbenzene	<1.1	ug/m3	2.9	2.88		03/19/19 13:25	108-67-8		
Vinyl acetate	<0.78	ug/m3	2.1	2.88		03/19/19 13:25	108-05-4		
Vinyl chloride	<0.36	ug/m3	0.75	2.88		03/19/19 13:25	75-01-4		
m&p-Xylene	3.1J	ug/m3	5.1	2.88		03/19/19 13:25	179601-23-1		
o-Xylene	1.4J	ug/m3	2.5	2.88		03/19/19 13:25	95-47-6		

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## ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: SSV-2	Lab ID: 7081066005	Collected: 02/28/19 16:11	Received: 03/01/19 12:06	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	198	ug/m3	7.5	3.1		03/19/19 19:36	67-64-1	
Benzene	6.0	ug/m3	1.0	3.1		03/19/19 19:36	71-43-2	
Benzyl chloride	<3.7	ug/m3	8.2	3.1		03/19/19 19:36	100-44-7	
Bromodichloromethane	<1.1	ug/m3	4.2	3.1		03/19/19 19:36	75-27-4	
Bromoform	<4.4	ug/m3	16.3	3.1		03/19/19 19:36	75-25-2	
Bromomethane	<0.70	ug/m3	2.4	3.1		03/19/19 19:36	74-83-9	
1,3-Butadiene	<0.40	ug/m3	1.4	3.1		03/19/19 19:36	106-99-0	
2-Butanone (MEK)	18.3	ug/m3	9.3	3.1		03/19/19 19:36	78-93-3	
Carbon disulfide	2.6	ug/m3	2.0	3.1		03/19/19 19:36	75-15-0	
Carbon tetrachloride	<1.3	ug/m3	4.0	3.1		03/19/19 19:36	56-23-5	
Chlorobenzene	<0.85	ug/m3	2.9	3.1		03/19/19 19:36	108-90-7	
Chloroethane	<0.81	ug/m3	1.7	3.1		03/19/19 19:36	75-00-3	
Chloroform	3.2	ug/m3	1.5	3.1		03/19/19 19:36	67-66-3	
Chloromethane	0.64J	ug/m3	1.3	3.1		03/19/19 19:36	74-87-3	
Cyclohexane	5.4J	ug/m3	5.4	3.1		03/19/19 19:36	110-82-7	
Dibromochloromethane	<2.2	ug/m3	5.4	3.1		03/19/19 19:36	124-48-1	
1,2-Dibromoethane (EDB)	<1.1	ug/m3	2.4	3.1		03/19/19 19:36	106-93-4	
1,2-Dichlorobenzene	<1.5	ug/m3	3.8	3.1		03/19/19 19:36	95-50-1	
1,3-Dichlorobenzene	<1.8	ug/m3	3.8	3.1		03/19/19 19:36	541-73-1	
1,4-Dichlorobenzene	<3.1	ug/m3	9.5	3.1		03/19/19 19:36	106-46-7	
Dichlorodifluoromethane	2.6J	ug/m3	3.1	3.1		03/19/19 19:36	75-71-8	
1,1-Dichloroethane	<0.70	ug/m3	2.6	3.1		03/19/19 19:36	75-34-3	
1,2-Dichloroethane	<0.46	ug/m3	1.3	3.1		03/19/19 19:36	107-06-2	
1,1-Dichloroethene	<0.85	ug/m3	2.5	3.1		03/19/19 19:36	75-35-4	
cis-1,2-Dichloroethene	<0.68	ug/m3	2.5	3.1		03/19/19 19:36	156-59-2	
trans-1,2-Dichloroethene	<0.88	ug/m3	2.5	3.1		03/19/19 19:36	156-60-5	
1,2-Dichloropropane	<0.71	ug/m3	2.9	3.1		03/19/19 19:36	78-87-5	
cis-1,3-Dichloropropene	<0.94	ug/m3	2.9	3.1		03/19/19 19:36	10061-01-5	
trans-1,3-Dichloropropene	<1.4	ug/m3	2.9	3.1		03/19/19 19:36	10061-02-6	
Dichlorotetrafluoroethane	<1.4	ug/m3	4.4	3.1		03/19/19 19:36	76-14-2	
Ethanol	258	ug/m3	6.0	3.1		03/19/19 19:36	64-17-5	
Ethyl acetate	<0.59	ug/m3	2.3	3.1		03/19/19 19:36	141-78-6	
Ethylbenzene	7.3	ug/m3	2.7	3.1		03/19/19 19:36	100-41-4	
4-Ethyltoluene	<1.8	ug/m3	7.8	3.1		03/19/19 19:36	622-96-8	
n-Heptane	7.6	ug/m3	2.6	3.1		03/19/19 19:36	142-82-5	
Hexachloro-1,3-butadiene	<6.1	ug/m3	16.8	3.1		03/19/19 19:36	87-68-3	
n-Hexane	15.7	ug/m3	2.2	3.1		03/19/19 19:36	110-54-3	
2-Hexanone	<2.3	ug/m3	12.9	3.1		03/19/19 19:36	591-78-6	
Methylene Chloride	8.1J	ug/m3	10.9	3.1		03/19/19 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.6J	ug/m3	12.9	3.1		03/19/19 19:36	108-10-1	
Methyl-tert-butyl ether	<2.1	ug/m3	11.3	3.1		03/19/19 19:36	1634-04-4	
Naphthalene	<4.1	ug/m3	8.2	3.1		03/19/19 19:36	91-20-3	
2-Propanol	22.5	ug/m3	7.8	3.1		03/19/19 19:36	67-63-0	
Propylene	<0.44	ug/m3	1.1	3.1		03/19/19 19:36	115-07-1	
Styrene	<1.1	ug/m3	2.7	3.1		03/19/19 19:36	100-42-5	
1,1,2,2-Tetrachloroethane	<0.91	ug/m3	2.2	3.1		03/19/19 19:36	79-34-5	
Tetrachloroethene	333	ug/m3	2.1	3.1		03/19/19 19:36	127-18-4	

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## ANALYTICAL RESULTS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Sample: SSV-2		Lab ID: 7081066005		Collected: 02/28/19 16:11		Received: 03/01/19 12:06		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrahydrofuran	<0.81	ug/m3	1.9	3.1		03/19/19 19:36	109-99-9		
Toluene	28.3	ug/m3	2.4	3.1		03/19/19 19:36	108-88-3		
1,2,4-Trichlorobenzene	<11.5	ug/m3	23.4	3.1		03/19/19 19:36	120-82-1		
1,1,1-Trichloroethane	11.1	ug/m3	3.4	3.1		03/19/19 19:36	71-55-6		
1,1,2-Trichloroethane	<0.78	ug/m3	1.7	3.1		03/19/19 19:36	79-00-5		
Trichloroethene	698	ug/m3	33.9	62		03/20/19 11:16	79-01-6		
Trichlorofluoromethane	1.4J	ug/m3	3.5	3.1		03/19/19 19:36	75-69-4		
1,1,2-Trichlorotrifluoroethane	<1.7	ug/m3	4.8	3.1		03/19/19 19:36	76-13-1		
1,2,4-Trimethylbenzene	12.3	ug/m3	3.1	3.1		03/19/19 19:36	95-63-6		
1,3,5-Trimethylbenzene	3.9	ug/m3	3.1	3.1		03/19/19 19:36	108-67-8		
Vinyl acetate	<0.84	ug/m3	2.2	3.1		03/19/19 19:36	108-05-4		
Vinyl chloride	<0.39	ug/m3	0.81	3.1		03/19/19 19:36	75-01-4		
m&p-Xylene	28.6	ug/m3	5.5	3.1		03/19/19 19:36	179601-23-1		
o-Xylene	11.1	ug/m3	2.7	3.1		03/19/19 19:36	95-47-6		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

QC Batch: 594466

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 7081066001, 7081066002, 7081066003, 7081066004, 7081066005

METHOD BLANK: 3213753

Matrix: Air

Associated Lab Samples: 7081066001, 7081066002, 7081066003, 7081066004, 7081066005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	03/19/19 11:29	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	03/19/19 11:29	
1,1,2-Trichloroethane	ug/m3	<0.25	0.56	03/19/19 11:29	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	03/19/19 11:29	
1,1-Dichloroethane	ug/m3	<0.22	0.82	03/19/19 11:29	
1,1-Dichloroethene	ug/m3	<0.27	0.81	03/19/19 11:29	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	03/19/19 11:29	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	03/19/19 11:29	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	03/19/19 11:29	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	03/19/19 11:29	
1,2-Dichloroethane	ug/m3	<0.15	0.41	03/19/19 11:29	
1,2-Dichloropropane	ug/m3	<0.23	0.94	03/19/19 11:29	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	03/19/19 11:29	
1,3-Butadiene	ug/m3	<0.13	0.45	03/19/19 11:29	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	03/19/19 11:29	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	03/19/19 11:29	
2-Butanone (MEK)	ug/m3	<0.37	3.0	03/19/19 11:29	
2-Hexanone	ug/m3	<0.74	4.2	03/19/19 11:29	
2-Propanol	ug/m3	<0.70	2.5	03/19/19 11:29	
4-Ethyltoluene	ug/m3	<0.57	2.5	03/19/19 11:29	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	03/19/19 11:29	
Acetone	ug/m3	<1.2	2.4	03/19/19 11:29	
Benzene	ug/m3	<0.15	0.32	03/19/19 11:29	
Benzyl chloride	ug/m3	<1.2	2.6	03/19/19 11:29	
Bromodichloromethane	ug/m3	<0.37	1.4	03/19/19 11:29	
Bromoform	ug/m3	<1.4	5.2	03/19/19 11:29	
Bromomethane	ug/m3	<0.23	0.79	03/19/19 11:29	
Carbon disulfide	ug/m3	<0.22	0.63	03/19/19 11:29	
Carbon tetrachloride	ug/m3	<0.43	1.3	03/19/19 11:29	
Chlorobenzene	ug/m3	<0.28	0.94	03/19/19 11:29	
Chloroethane	ug/m3	<0.26	0.54	03/19/19 11:29	
Chloroform	ug/m3	<0.20	0.50	03/19/19 11:29	
Chloromethane	ug/m3	<0.16	0.42	03/19/19 11:29	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	03/19/19 11:29	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	03/19/19 11:29	
Cyclohexane	ug/m3	<0.35	1.8	03/19/19 11:29	
Dibromochloromethane	ug/m3	<0.72	1.7	03/19/19 11:29	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	03/19/19 11:29	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	03/19/19 11:29	
Ethanol	ug/m3	<0.81	1.9	03/19/19 11:29	
Ethyl acetate	ug/m3	<0.19	0.73	03/19/19 11:29	

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### QUALITY CONTROL DATA

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

METHOD BLANK: 3213753

Matrix: Air

Associated Lab Samples: 7081066001, 7081066002, 7081066003, 7081066004, 7081066005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	03/19/19 11:29	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	03/19/19 11:29	
m&p-Xylene	ug/m3	<0.70	1.8	03/19/19 11:29	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	03/19/19 11:29	
Methylene Chloride	ug/m3	2.2J	3.5	03/19/19 11:29	
n-Heptane	ug/m3	<0.38	0.83	03/19/19 11:29	
n-Hexane	ug/m3	<0.31	0.72	03/19/19 11:29	
Naphthalene	ug/m3	<1.3	2.7	03/19/19 11:29	
o-Xylene	ug/m3	<0.34	0.88	03/19/19 11:29	
Propylene	ug/m3	<0.14	0.35	03/19/19 11:29	
Styrene	ug/m3	<0.34	0.87	03/19/19 11:29	
Tetrachloroethene	ug/m3	<0.31	0.69	03/19/19 11:29	
Tetrahydrofuran	ug/m3	<0.26	0.60	03/19/19 11:29	
Toluene	ug/m3	<0.35	0.77	03/19/19 11:29	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	03/19/19 11:29	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	03/19/19 11:29	
Trichloroethene	ug/m3	<0.26	0.55	03/19/19 11:29	
Trichlorofluoromethane	ug/m3	<0.37	1.1	03/19/19 11:29	
Vinyl acetate	ug/m3	<0.27	0.72	03/19/19 11:29	
Vinyl chloride	ug/m3	<0.13	0.26	03/19/19 11:29	

LABORATORY CONTROL SAMPLE: 3213754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.5	102	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	78.1	112	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	54.3	98	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	78.3	101	70-130	
1,1-Dichloroethane	ug/m3	41.1	41.5	101	70-130	
1,1-Dichloroethene	ug/m3	40.3	41.7	103	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	68.9	91	56-130	
1,2,4-Trimethylbenzene	ug/m3	50	54.8	110	70-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	81.9	105	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	67.9	111	70-132	
1,2-Dichloroethane	ug/m3	41.1	42.6	104	70-130	
1,2-Dichloropropane	ug/m3	47	49.1	105	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	51.7	103	70-132	
1,3-Butadiene	ug/m3	22.5	21.4	95	65-130	
1,3-Dichlorobenzene	ug/m3	61.1	69.8	114	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	61.1	100	70-134	
2-Butanone (MEK)	ug/m3	30	24.1	80	70-130	
2-Hexanone	ug/m3	41.6	38.8	93	70-135	
2-Propanol	ug/m3	125	121	97	68-130	
4-Ethyltoluene	ug/m3	50	54.9	110	70-138	

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### QUALITY CONTROL DATA

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

LABORATORY CONTROL SAMPLE: 3213754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	42.4	102	70-131	
Acetone	ug/m3	121	104	86	67-130	
Benzene	ug/m3	32.5	33.4	103	70-130	
Benzyl chloride	ug/m3	52.6	52.0	99	70-130	
Bromodichloromethane	ug/m3	68.1	67.3	99	70-130	
Bromoform	ug/m3	105	105	100	70-132	
Bromomethane	ug/m3	39.5	37.3	94	69-130	
Carbon disulfide	ug/m3	31.6	32.5	103	56-137	
Carbon tetrachloride	ug/m3	64	68.4	107	66-131	
Chlorobenzene	ug/m3	46.8	46.7	100	70-130	
Chloroethane	ug/m3	26.8	27.3	102	70-130	
Chloroform	ug/m3	49.6	51.2	103	70-130	
Chloromethane	ug/m3	21	20.4	97	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	43.8	109	70-130	
cis-1,3-Dichloropropene	ug/m3	46.1	44.9	97	70-133	
Cyclohexane	ug/m3	35	34.5	99	68-132	
Dibromochloromethane	ug/m3	86.6	92.9	107	70-130	
Dichlorodifluoromethane	ug/m3	50.3	50.5	101	70-130	
Dichlorotetrafluoroethane	ug/m3	71	68.3	96	70-130	
Ethanol	ug/m3	95.8	86.7	90	68-133	
Ethyl acetate	ug/m3	36.6	37.1	101	69-130	
Ethylbenzene	ug/m3	44.1	46.4	105	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	109	101	66-137	
m&p-Xylene	ug/m3	88.3	94.2	107	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	37.0	101	70-130	
Methylene Chloride	ug/m3	177	161	91	65-130	
n-Heptane	ug/m3	41.7	41.5	100	65-130	
n-Hexane	ug/m3	35.8	36.5	102	66-130	
Naphthalene	ug/m3	53.3	53.3	100	56-130	
o-Xylene	ug/m3	44.1	46.4	105	70-130	
Propylene	ug/m3	17.5	16.4	94	67-130	
Styrene	ug/m3	43.3	43.8	101	69-136	
Tetrachloroethene	ug/m3	68.9	67.7	98	70-130	
Tetrahydrofuran	ug/m3	30	29.9	100	68-131	
Toluene	ug/m3	38.3	39.7	104	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.2	110	70-130	
trans-1,3-Dichloropropene	ug/m3	46.1	51.2	111	70-134	
Trichloroethene	ug/m3	54.6	56.0	102	70-130	
Trichlorofluoromethane	ug/m3	57.1	55.4	97	65-130	
Vinyl acetate	ug/m3	35.8	35.0	98	61-133	
Vinyl chloride	ug/m3	26	24.8	95	70-130	

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### QUALITY CONTROL DATA

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

SAMPLE DUPLICATE: 3214039

Parameter	Units	7081066002 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		
1,1,2,2-Tetrachloroethane	ug/m3	<0.41	<0.41		
1,1,2-Trichloroethane	ug/m3	<0.35	<0.35		
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.78	<0.78		
1,1-Dichloroethane	ug/m3	<0.31	<0.31		
1,1-Dichloroethene	ug/m3	<0.38	<0.38		
1,2,4-Trichlorobenzene	ug/m3	<5.2	<5.2		
1,2,4-Trimethylbenzene	ug/m3	<0.63	<0.63		
1,2-Dibromoethane (EDB)	ug/m3	<0.51	<0.51		
1,2-Dichlorobenzene	ug/m3	<0.69	<0.69		
1,2-Dichloroethane	ug/m3	<0.21	<0.21		
1,2-Dichloropropane	ug/m3	<0.32	<0.32		
1,3,5-Trimethylbenzene	ug/m3	<0.55	<0.55		
1,3-Butadiene	ug/m3	<0.18	<0.18		
1,3-Dichlorobenzene	ug/m3	<0.81	<0.81		
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4		
2-Butanone (MEK)	ug/m3	3.5J	3.6J		
2-Hexanone	ug/m3	<1.0	<1.0		
2-Propanol	ug/m3	1.5J	1.4J		
4-Ethyltoluene	ug/m3	<0.79	<0.79		
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.72	<0.72		
Acetone	ug/m3	8.8	8.9	1	
Benzene	ug/m3	0.82	0.82	0	
Benzyl chloride	ug/m3	<1.7	<1.7		
Bromodichloromethane	ug/m3	<0.51	<0.51		
Bromoform	ug/m3	<2.0	<2.0		
Bromomethane	ug/m3	<0.32	<0.32		
Carbon disulfide	ug/m3	<0.30	<0.30		
Carbon tetrachloride	ug/m3	<0.60	<0.60		
Chlorobenzene	ug/m3	<0.38	<0.38		
Chloroethane	ug/m3	<0.36	<0.36		
Chloroform	ug/m3	<0.27	<0.27		
Chloromethane	ug/m3	0.83	0.80	4	
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		
cis-1,3-Dichloropropene	ug/m3	<0.42	<0.42		
Cyclohexane	ug/m3	<0.49	<0.49		
Dibromochloromethane	ug/m3	<1.0	<1.0		
Dichlorodifluoromethane	ug/m3	2.5	2.4	2	
Dichlorotetrafluoroethane	ug/m3	<0.61	<0.61		
Ethanol	ug/m3	6.9	6.9	0	
Ethyl acetate	ug/m3	<0.26	<0.26		
Ethylbenzene	ug/m3	<0.42	<0.42		
Hexachloro-1,3-butadiene	ug/m3	<2.7	<2.7		
m&p-Xylene	ug/m3	<0.97	<0.97		
Methyl-tert-butyl ether	ug/m3	<0.92	<0.92		
Methylene Chloride	ug/m3	5.0	5.6	12	
n-Heptane	ug/m3	<0.53	<0.53		

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### QUALITY CONTROL DATA

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

SAMPLE DUPLICATE: 3214039

Parameter	Units	7081066002 Result	Dup Result	RPD	Qualifiers
n-Hexane	ug/m3	2.6	2.8	6	
Naphthalene	ug/m3	<1.8	<1.8		
o-Xylene	ug/m3	<0.48	<0.48		
Propylene	ug/m3	<0.20	<0.20		
Styrene	ug/m3	<0.48	<0.48		
Tetrachloroethene	ug/m3	1.2	1.0	18	
Tetrahydrofuran	ug/m3	<0.36	<0.36		
Toluene	ug/m3	4.4	4.8	8	
trans-1,2-Dichloroethene	ug/m3	<0.40	<0.40		
trans-1,3-Dichloropropene	ug/m3	<0.61	<0.61		
Trichloroethene	ug/m3	<0.36	<0.36		
Trichlorofluoromethane	ug/m3	1.2J	1.3J		
Vinyl acetate	ug/m3	<0.38	<0.38		
Vinyl chloride	ug/m3	<0.18	<0.18		

SAMPLE DUPLICATE: 3214168

Parameter	Units	7081066004 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.89	<0.89		
1,1,2,2-Tetrachloroethane	ug/m3	<0.84	<0.84		
1,1,2-Trichloroethane	ug/m3	<0.72	<0.72		
1,1,2-Trichlorotrifluoroethane	ug/m3	<1.6	<1.6		
1,1-Dichloroethane	ug/m3	<0.65	<0.65		
1,1-Dichloroethene	ug/m3	<0.79	<0.79		
1,2,4-Trichlorobenzene	ug/m3	<10.7	<10.7		
1,2,4-Trimethylbenzene	ug/m3	1.7J	1.6J		
1,2-Dibromoethane (EDB)	ug/m3	<1.1	<1.1		
1,2-Dichlorobenzene	ug/m3	<1.4	<1.4		
1,2-Dichloroethane	ug/m3	<0.43	<0.43		
1,2-Dichloropropane	ug/m3	<0.66	<0.66		
1,3,5-Trimethylbenzene	ug/m3	<1.1	<1.1		
1,3-Butadiene	ug/m3	<0.37	<0.37		
1,3-Dichlorobenzene	ug/m3	<1.7	<1.7		
1,4-Dichlorobenzene	ug/m3	<2.9	<2.9		
2-Butanone (MEK)	ug/m3	2.6J	2.9J		
2-Hexanone	ug/m3	<2.1	<2.1		
2-Propanol	ug/m3	17.5	17.9	2	
4-Ethyltoluene	ug/m3	<1.6	<1.6		
4-Methyl-2-pentanone (MIBK)	ug/m3	<1.5	<1.5		
Acetone	ug/m3	13.3	13.9	4	
Benzene	ug/m3	1.4	1.7	19	
Benzyl chloride	ug/m3	<3.5	<3.5		
Bromodichloromethane	ug/m3	<1.1	<1.1		
Bromoform	ug/m3	<4.1	<4.1		
Bromomethane	ug/m3	<0.65	<0.65		

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### QUALITY CONTROL DATA

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

SAMPLE DUPLICATE: 3214168

Parameter	Units	7081066004 Result	Dup Result	RPD	Qualifiers
Carbon disulfide	ug/m3	<0.63	<0.63		
Carbon tetrachloride	ug/m3	<1.2	<1.2		
Chlorobenzene	ug/m3	<0.79	<0.79		
Chloroethane	ug/m3	<0.75	<0.75		
Chloroform	ug/m3	<0.56	<0.56		
Chloromethane	ug/m3	0.73J	1.0J		
cis-1,2-Dichloroethene	ug/m3	<0.63	<0.63		
cis-1,3-Dichloropropene	ug/m3	<0.88	<0.88		
Cyclohexane	ug/m3	1.1J	<1.0		
Dibromochloromethane	ug/m3	<2.1	<2.1		
Dichlorodifluoromethane	ug/m3	2.1J	2.3J		
Dichlorotetrafluoroethane	ug/m3	<1.3	<1.3		
Ethanol	ug/m3	30.1	33.0	9	
Ethyl acetate	ug/m3	<0.55	<0.55		
Ethylbenzene	ug/m3	0.91J	0.92J		
Hexachloro-1,3-butadiene	ug/m3	<5.7	<5.7		
m&p-Xylene	ug/m3	3.1J	3.1J		
Methyl-tert-butyl ether	ug/m3	<1.9	<1.9		
Methylene Chloride	ug/m3	5.9J	6.7J		
n-Heptane	ug/m3	1.8J	1.3J		
n-Hexane	ug/m3	6.3	6.9	8	
Naphthalene	ug/m3	<3.8	<3.8		
o-Xylene	ug/m3	1.4J	1.5J		
Propylene	ug/m3	<0.41	<0.41		
Styrene	ug/m3	<0.99	<0.99		
Tetrachloroethene	ug/m3	<0.90	<0.90		
Tetrahydrofuran	ug/m3	<0.75	<0.75		
Toluene	ug/m3	7.3	7.4	2	
trans-1,2-Dichloroethene	ug/m3	<0.82	<0.82		
trans-1,3-Dichloropropene	ug/m3	<1.3	<1.3		
Trichloroethene	ug/m3	<0.74	<0.74		
Trichlorofluoromethane	ug/m3	1.1J	1.1J		
Vinyl acetate	ug/m3	<0.78	<0.78		
Vinyl chloride	ug/m3	<0.36	<0.36		

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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## QUALIFIERS

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

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### 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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 118-130 SWALM STREET

Pace Project No.: 7081066

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7081066001	OUTSIDE	TO-15	594466		
7081066002	IA-1	TO-15	594466		
7081066003	SSV-1	TO-15	594466		
7081066004	IA-2	TO-15	594466		
7081066005	SSV-2	TO-15	594466		

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