

**From:** Stephen Meer, P.E. <[smeer@thesigmagroup.com](mailto:smeer@thesigmagroup.com)>  
**Sent:** Monday, October 14, 2019 10:24 AM  
**To:** Ryan, Nancy D - DNR  
**Subject:** RE: MPS site lab data?  
**Attachments:** 10494361\_frc.pdf

Nancy,

Lab report for indoor air attached. Quick review indicates no VAL exceedances with the exception of 2-Propanol (Isopropyl Alcohol) which makes sense given the current building use. We had a TCE J flagged detection in one sample and some low level PVOCs show up in IA-7, but not above VALs.

I'm guessing the delay in results was due to the required dilution for Ethanol/2-Propanol on a couple of the samples.

We can tabulate and send an summary table.

We should have the sub-slab data back by end of the day Thursday unless they have to run dilutions.

Stephen R. Meer, P.E.  
Senior Engineer  
The Sigma Group, Inc.  
414-643-4124 (direct)  
414-588-8910 (mobile)  
1300 W. Canal Street, Milwaukee, WI 53233  
[www.thesigmagroup.com](http://www.thesigmagroup.com) | [smeer@thesigmagroup.com](mailto:smeer@thesigmagroup.com)



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**From:** Ryan, Nancy D - DNR <[Nancy.Ryan@wisconsin.gov](mailto:Nancy.Ryan@wisconsin.gov)>  
**Sent:** Monday, October 14, 2019 9:14 AM  
**To:** Stephen Meer, P.E. <[smeer@thesigmagroup.com](mailto:smeer@thesigmagroup.com)>  
**Subject:** RE: MPS site lab data?

thanks

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**From:** Stephen Meer, P.E. <[smeer@thesigmagroup.com](mailto:smeer@thesigmagroup.com)>  
**Sent:** Monday, October 14, 2019 8:58 AM  
**To:** Ryan, Nancy D - DNR <[Nancy.Ryan@wisconsin.gov](mailto:Nancy.Ryan@wisconsin.gov)>  
**Subject:** Re: MPS site lab data?

Not yet, I'll check with them this morning

Sent from my iPhone

On Oct 14, 2019, at 8:57 AM, Ryan, Nancy D - DNR <[Nancy.Ryan@wisconsin.gov](mailto:Nancy.Ryan@wisconsin.gov)> wrote:

Morning Steve. I assume you haven't received lab report for the MPS site? sorry to bug you about it.

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

**Nancy D. Ryan**

Hydrogeologist Coordinator, Bureau for Remediation and Redevelopment  
Wisconsin Department of Natural Resources  
2300 N. Dr. Martin Luther King, Jr. Dr.  
Milwaukee, WI 53212  
Phone: (414) 263-8533  
Fax: (414) 263-8550  
[nancy.ryan@wisconsin.gov](mailto:nancy.ryan@wisconsin.gov)

<image001.gif>

[dnr.wi.gov](http://dnr.wi.gov)

<image002.gif>

<image003.gif>

<image004.gif>

<image005.gif>

<image006.gif>

October 14, 2019

Steve Meer  
Sigma Environmental Services  
1300 W. Canal St.  
Milwaukee, WI 53233

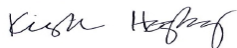
RE: Project: 18883 MPS  
Pace Project No.: 10494361

Dear Steve Meer:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 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.

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

Sincerely,



Kirsten Hogberg  
kirsten.hogberg@pacelabs.com  
(612)607-1700  
Project Manager

Enclosures

cc: Ed Pencak, Sigma Group



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 18883 MPS

Pace Project No.: 10494361

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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

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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 18883 MPS

Pace Project No.: 10494361

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10494361001	IA-1	Air	10/03/19 16:00	10/04/19 12:00
10494361002	IA-2	Air	10/03/19 16:28	10/04/19 12:00
10494361003	IA-3	Air	10/03/19 17:07	10/04/19 12:00
10494361004	IA-4	Air	10/03/19 16:35	10/04/19 12:00
10494361005	IA-5	Air	10/03/19 16:39	10/04/19 12:00
10494361006	IA-6	Air	10/03/19 16:46	10/04/19 12:00
10494361007	IA-7	Air	10/03/19 17:11	10/04/19 12:00
10494361008	IA-8	Air	10/03/19 17:14	10/04/19 12:00
10494361009	IA-9	Air	10/03/19 16:57	10/04/19 12:00
10494361010	IA-10	Air	10/03/19 16:59	10/04/19 12:00
10494361011	AA-1	Air	10/03/19 17:02	10/04/19 12:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 18883 MPS

Pace Project No.: 10494361

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10494361001	IA-1	TO-15	MG2	61	PASI-M
10494361002	IA-2	TO-15	MG2	61	PASI-M
10494361004	IA-4	TO-15	MG2	61	PASI-M
10494361005	IA-5	TO-15	MG2	61	PASI-M
10494361006	IA-6	TO-15	MG2	61	PASI-M
10494361007	IA-7	TO-15	MG2	61	PASI-M
10494361008	IA-8	TO-15	MG2	61	PASI-M
10494361009	IA-9	TO-15	MG2	61	PASI-M
10494361010	IA-10	TO-15	MG2	61	PASI-M
10494361011	AA-1	TO-15	MG2	61	PASI-M

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 18883 MPS  
Pace Project No.: 10494361

Sample: IA-1      Lab ID: 10494361001      Collected: 10/03/19 16:00      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	13.1	ug/m3	3.7	1.9	1.55		10/11/19 17:05	67-64-1	
Benzene	<0.24	ug/m3	0.50	0.24	1.55		10/11/19 17:05	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.1	1.9	1.55		10/11/19 17:05	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.1	0.57	1.55		10/11/19 17:05	75-27-4	
Bromoform	<2.2	ug/m3	8.1	2.2	1.55		10/11/19 17:05	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.55		10/11/19 17:05	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.70	0.20	1.55		10/11/19 17:05	106-99-0	
2-Butanone (MEK)	1.5J	ug/m3	4.6	0.57	1.55		10/11/19 17:05	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.98	0.34	1.55		10/11/19 17:05	75-15-0	
Carbon tetrachloride	<0.66	ug/m3	2.0	0.66	1.55		10/11/19 17:05	56-23-5	
Chlorobenzene	<0.43	ug/m3	1.5	0.43	1.55		10/11/19 17:05	108-90-7	
Chloroethane	<0.40	ug/m3	0.83	0.40	1.55		10/11/19 17:05	75-00-3	
Chloroform	<0.30	ug/m3	0.77	0.30	1.55		10/11/19 17:05	67-66-3	
Chloromethane	0.75	ug/m3	0.65	0.24	1.55		10/11/19 17:05	74-87-3	
Cyclohexane	<0.55	ug/m3	2.7	0.55	1.55		10/11/19 17:05	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.7	1.1	1.55		10/11/19 17:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.57	ug/m3	1.2	0.57	1.55		10/11/19 17:05	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	1.9	0.77	1.55		10/11/19 17:05	95-50-1	
1,3-Dichlorobenzene	<0.90	ug/m3	1.9	0.90	1.55		10/11/19 17:05	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.7	1.6	1.55		10/11/19 17:05	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	1.6	0.45	1.55		10/11/19 17:05	75-71-8	
1,1-Dichloroethane	<0.35	ug/m3	1.3	0.35	1.55		10/11/19 17:05	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.64	0.23	1.55		10/11/19 17:05	107-06-2	
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.55		10/11/19 17:05	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.55		10/11/19 17:05	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		10/11/19 17:05	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.5	0.36	1.55		10/11/19 17:05	78-87-5	
cis-1,3-Dichloropropene	<0.47	ug/m3	1.4	0.47	1.55		10/11/19 17:05	10061-01-5	
trans-1,3-Dichloropropene	<0.68	ug/m3	1.4	0.68	1.55		10/11/19 17:05	10061-02-6	
Dichlorotetrafluoroethane	<0.68	ug/m3	2.2	0.68	1.55		10/11/19 17:05	76-14-2	
Ethanol	360	ug/m3	3.0	1.3	1.55		10/11/19 17:05	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.1	0.29	1.55		10/11/19 17:05	141-78-6	
Ethylbenzene	<0.47	ug/m3	1.4	0.47	1.55		10/11/19 17:05	100-41-4	
4-Ethyltoluene	<0.88	ug/m3	3.9	0.88	1.55		10/11/19 17:05	622-96-8	
n-Heptane	<0.59	ug/m3	1.3	0.59	1.55		10/11/19 17:05	142-82-5	
Hexachloro-1,3-butadiene	<3.1	ug/m3	8.4	3.1	1.55		10/11/19 17:05	87-68-3	
n-Hexane	0.60J	ug/m3	1.1	0.48	1.55		10/11/19 17:05	110-54-3	
2-Hexanone	<1.2	ug/m3	6.4	1.2	1.55		10/11/19 17:05	591-78-6	
Methylene Chloride	2.9J	ug/m3	5.5	1.9	1.55		10/11/19 17:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/m3	6.4	0.80	1.55		10/11/19 17:05	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.7	1.0	1.55		10/11/19 17:05	1634-04-4	
Naphthalene	<2.0	ug/m3	4.1	2.0	1.55		10/11/19 17:05	91-20-3	
2-Propanol	556	ug/m3	3.9	1.1	1.55		10/11/19 17:05	67-63-0	
Propylene	<0.22	ug/m3	0.54	0.22	1.55		10/11/19 17:05	115-07-1	
Styrene	<0.53	ug/m3	1.3	0.53	1.55		10/11/19 17:05	100-42-5	
1,1,2,2-Tetrachloroethane	<0.48	ug/m3	1.1	0.48	1.55		10/11/19 17:05	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 18883 MPS  
Pace Project No.: 10494361

Sample: IA-1      Lab ID: 10494361001      Collected: 10/03/19 16:00      Received: 10/04/19 12:00      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Tetrachloroethene	<0.49	ug/m3	1.1	0.49	1.55		10/11/19 17:05	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.93	0.40	1.55		10/11/19 17:05	109-99-9	
Toluene	6.0	ug/m3	1.2	0.54	1.55		10/11/19 17:05	108-88-3	
1,2,4-Trichlorobenzene	<5.8	ug/m3	11.7	5.8	1.55		10/11/19 17:05	120-82-1	
1,1,1-Trichloroethane	0.53J	ug/m3	1.7	0.48	1.55		10/11/19 17:05	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.86	0.38	1.55		10/11/19 17:05	79-00-5	
Trichloroethene	0.52J	ug/m3	0.85	0.39	1.55		10/11/19 17:05	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.8	0.57	1.55		10/11/19 17:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.87	ug/m3	2.4	0.87	1.55		10/11/19 17:05	76-13-1	
1,2,4-Trimethylbenzene	<0.70	ug/m3	1.5	0.70	1.55		10/11/19 17:05	95-63-6	
1,3,5-Trimethylbenzene	<0.62	ug/m3	1.5	0.62	1.55		10/11/19 17:05	108-67-8	
Vinyl acetate	<0.42	ug/m3	1.1	0.42	1.55		10/11/19 17:05	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		10/11/19 17:05	75-01-4	
m&p-Xylene	<1.1	ug/m3	2.7	1.1	1.55		10/11/19 17:05	179601-23-1	
o-Xylene	<0.53	ug/m3	1.4	0.53	1.55		10/11/19 17:05	95-47-6	

Sample: IA-2      Lab ID: 10494361002      Collected: 10/03/19 16:28      Received: 10/04/19 12:00      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	15.1	ug/m3	4.2	2.1	1.75		10/11/19 21:40	67-64-1	
Benzene	<0.27	ug/m3	0.57	0.27	1.75		10/11/19 21:40	71-43-2	
Benzyl chloride	<2.1	ug/m3	4.6	2.1	1.75		10/11/19 21:40	100-44-7	
Bromodichloromethane	<0.64	ug/m3	2.4	0.64	1.75		10/11/19 21:40	75-27-4	
Bromoform	<2.5	ug/m3	9.2	2.5	1.75		10/11/19 21:40	75-25-2	
Bromomethane	<0.40	ug/m3	1.4	0.40	1.75		10/11/19 21:40	74-83-9	
1,3-Butadiene	<0.22	ug/m3	0.79	0.22	1.75		10/11/19 21:40	106-99-0	
2-Butanone (MEK)	1.4J	ug/m3	5.2	0.65	1.75		10/11/19 21:40	78-93-3	
Carbon disulfide	<0.38	ug/m3	1.1	0.38	1.75		10/11/19 21:40	75-15-0	
Carbon tetrachloride	<0.75	ug/m3	2.2	0.75	1.75		10/11/19 21:40	56-23-5	
Chlorobenzene	<0.48	ug/m3	1.6	0.48	1.75		10/11/19 21:40	108-90-7	
Chloroethane	<0.46	ug/m3	0.94	0.46	1.75		10/11/19 21:40	75-00-3	
Chloroform	<0.34	ug/m3	0.87	0.34	1.75		10/11/19 21:40	67-66-3	
Chloromethane	0.72J	ug/m3	0.74	0.27	1.75		10/11/19 21:40	74-87-3	
Cyclohexane	<0.62	ug/m3	3.1	0.62	1.75		10/11/19 21:40	110-82-7	
Dibromochloromethane	<1.3	ug/m3	3.0	1.3	1.75		10/11/19 21:40	124-48-1	
1,2-Dibromoethane (EDB)	<0.64	ug/m3	1.4	0.64	1.75		10/11/19 21:40	106-93-4	
1,2-Dichlorobenzene	<0.87	ug/m3	2.1	0.87	1.75		10/11/19 21:40	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/m3	2.1	1.0	1.75		10/11/19 21:40	541-73-1	
1,4-Dichlorobenzene	<1.8	ug/m3	5.4	1.8	1.75		10/11/19 21:40	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	1.8	0.51	1.75		10/11/19 21:40	75-71-8	
1,1-Dichloroethane	<0.39	ug/m3	1.4	0.39	1.75		10/11/19 21:40	75-34-3	
1,2-Dichloroethane	<0.26	ug/m3	0.72	0.26	1.75		10/11/19 21:40	107-06-2	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 18883 MPS

Pace Project No.: 10494361

**Sample: IA-2**      **Lab ID: 10494361002**      Collected: 10/03/19 16:28      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
1,1-Dichloroethene	<0.48	ug/m3	1.4	0.48	1.75		10/11/19 21:40	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.75		10/11/19 21:40	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/m3	1.4	0.50	1.75		10/11/19 21:40	156-60-5	
1,2-Dichloropropane	<0.40	ug/m3	1.6	0.40	1.75		10/11/19 21:40	78-87-5	
cis-1,3-Dichloropropene	<0.53	ug/m3	1.6	0.53	1.75		10/11/19 21:40	10061-01-5	
trans-1,3-Dichloropropene	<0.77	ug/m3	1.6	0.77	1.75		10/11/19 21:40	10061-02-6	
Dichlorotetrafluoroethane	<0.76	ug/m3	2.5	0.76	1.75		10/11/19 21:40	76-14-2	
Ethanol	336	ug/m3	3.4	1.4	1.75		10/11/19 21:40	64-17-5	
Ethyl acetate	0.59J	ug/m3	1.3	0.33	1.75		10/11/19 21:40	141-78-6	
Ethylbenzene	<0.53	ug/m3	1.5	0.53	1.75		10/11/19 21:40	100-41-4	
4-Ethyltoluene	<1.0	ug/m3	4.4	1.0	1.75		10/11/19 21:40	622-96-8	
n-Heptane	<0.66	ug/m3	1.5	0.66	1.75		10/11/19 21:40	142-82-5	
Hexachloro-1,3-butadiene	<3.4	ug/m3	9.5	3.4	1.75		10/11/19 21:40	87-68-3	
n-Hexane	0.76J	ug/m3	1.3	0.54	1.75		10/11/19 21:40	110-54-3	
2-Hexanone	<1.3	ug/m3	7.3	1.3	1.75		10/11/19 21:40	591-78-6	
Methylene Chloride	4.8J	ug/m3	6.2	2.1	1.75		10/11/19 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.91	ug/m3	7.3	0.91	1.75		10/11/19 21:40	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/m3	6.4	1.2	1.75		10/11/19 21:40	1634-04-4	
Naphthalene	<2.3	ug/m3	4.7	2.3	1.75		10/11/19 21:40	91-20-3	
2-Propanol	617	ug/m3	4.4	1.2	1.75		10/11/19 21:40	67-63-0	
Propylene	<0.24	ug/m3	0.61	0.24	1.75		10/11/19 21:40	115-07-1	
Styrene	<0.60	ug/m3	1.5	0.60	1.75		10/11/19 21:40	100-42-5	
1,1,2,2-Tetrachloroethane	<0.54	ug/m3	1.2	0.54	1.75		10/11/19 21:40	79-34-5	
Tetrachloroethene	<0.55	ug/m3	1.2	0.55	1.75		10/11/19 21:40	127-18-4	
Tetrahydrofuran	<0.46	ug/m3	1.0	0.46	1.75		10/11/19 21:40	109-99-9	
Toluene	6.2	ug/m3	1.3	0.61	1.75		10/11/19 21:40	108-88-3	
1,2,4-Trichlorobenzene	<6.5	ug/m3	13.2	6.5	1.75		10/11/19 21:40	120-82-1	
1,1,1-Trichloroethane	<0.54	ug/m3	1.9	0.54	1.75		10/11/19 21:40	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/m3	0.97	0.42	1.75		10/11/19 21:40	79-00-5	
Trichloroethene	<0.44	ug/m3	0.96	0.44	1.75		10/11/19 21:40	79-01-6	
Trichlorofluoromethane	1.5J	ug/m3	2.0	0.64	1.75		10/11/19 21:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.99	ug/m3	2.7	0.99	1.75		10/11/19 21:40	76-13-1	
1,2,4-Trimethylbenzene	<0.79	ug/m3	1.7	0.79	1.75		10/11/19 21:40	95-63-6	
1,3,5-Trimethylbenzene	<0.70	ug/m3	1.7	0.70	1.75		10/11/19 21:40	108-67-8	
Vinyl acetate	<0.47	ug/m3	1.3	0.47	1.75		10/11/19 21:40	108-05-4	
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		10/11/19 21:40	75-01-4	
m&p-Xylene	<1.2	ug/m3	3.1	1.2	1.75		10/11/19 21:40	179601-23-1	
o-Xylene	<0.60	ug/m3	1.5	0.60	1.75		10/11/19 21:40	95-47-6	

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### ANALYTICAL RESULTS

Project: 18883 MPS

Pace Project No.: 10494361

Sample: IA-4 Lab ID: 10494361004 Collected: 10/03/19 16:35 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Acetone	35.5	ug/m3	3.6	1.8	1.49		10/11/19 20:42	67-64-1	
Benzene	<0.23	ug/m3	0.48	0.23	1.49		10/11/19 20:42	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.8	1.49		10/11/19 20:42	100-44-7	
Bromodichloromethane	<0.55	ug/m3	2.0	0.55	1.49		10/11/19 20:42	75-27-4	
Bromoform	<2.1	ug/m3	7.8	2.1	1.49		10/11/19 20:42	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	0.34	1.49		10/11/19 20:42	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	0.19	1.49		10/11/19 20:42	106-99-0	
2-Butanone (MEK)	3.3J	ug/m3	4.5	0.55	1.49		10/11/19 20:42	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.94	0.33	1.49		10/11/19 20:42	75-15-0	
Carbon tetrachloride	<0.64	ug/m3	1.9	0.64	1.49		10/11/19 20:42	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	0.41	1.49		10/11/19 20:42	108-90-7	
Chloroethane	<0.39	ug/m3	0.80	0.39	1.49		10/11/19 20:42	75-00-3	
Chloroform	<0.29	ug/m3	0.74	0.29	1.49		10/11/19 20:42	67-66-3	
Chloromethane	0.88	ug/m3	0.63	0.23	1.49		10/11/19 20:42	74-87-3	
Cyclohexane	<0.53	ug/m3	2.6	0.53	1.49		10/11/19 20:42	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.49		10/11/19 20:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	0.55	1.49		10/11/19 20:42	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	0.74	1.49		10/11/19 20:42	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	0.87	1.49		10/11/19 20:42	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.6	1.5	1.49		10/11/19 20:42	106-46-7	
Dichlorodifluoromethane	2.1	ug/m3	1.5	0.44	1.49		10/11/19 20:42	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.2	0.34	1.49		10/11/19 20:42	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.61	0.22	1.49		10/11/19 20:42	107-06-2	
1,1-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.49		10/11/19 20:42	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.49		10/11/19 20:42	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.49		10/11/19 20:42	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	0.34	1.49		10/11/19 20:42	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	0.45	1.49		10/11/19 20:42	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	0.66	1.49		10/11/19 20:42	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	0.65	1.49		10/11/19 20:42	76-14-2	
Ethanol	1210	ug/m3	2.9	1.2	1.49		10/11/19 20:42	64-17-5	E
Ethyl acetate	<0.28	ug/m3	1.1	0.28	1.49		10/11/19 20:42	141-78-6	
Ethylbenzene	<0.45	ug/m3	1.3	0.45	1.49		10/11/19 20:42	100-41-4	
4-Ethyltoluene	<0.85	ug/m3	3.7	0.85	1.49		10/11/19 20:42	622-96-8	
n-Heptane	<0.57	ug/m3	1.2	0.57	1.49		10/11/19 20:42	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	2.9	1.49		10/11/19 20:42	87-68-3	
n-Hexane	<0.46	ug/m3	1.1	0.46	1.49		10/11/19 20:42	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.1	1.49		10/11/19 20:42	591-78-6	
Methylene Chloride	<1.8	ug/m3	5.3	1.8	1.49		10/11/19 20:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.2	0.77	1.49		10/11/19 20:42	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	0.99	1.49		10/11/19 20:42	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.49		10/11/19 20:42	91-20-3	
2-Propanol	1140	ug/m3	3.7	1.0	1.49		10/11/19 20:42	67-63-0	E
Propylene	<0.21	ug/m3	0.52	0.21	1.49		10/11/19 20:42	115-07-1	
Styrene	<0.51	ug/m3	1.3	0.51	1.49		10/11/19 20:42	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	1.0	0.46	1.49		10/11/19 20:42	79-34-5	

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### ANALYTICAL RESULTS

Project: 18883 MPS  
Pace Project No.: 10494361

**Sample: IA-4**      **Lab ID: 10494361004**      Collected: 10/03/19 16:35      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Tetrachloroethene	<0.47	ug/m3	1.0	0.47	1.49		10/11/19 20:42	127-18-4	
Tetrahydrofuran	<0.39	ug/m3	0.89	0.39	1.49		10/11/19 20:42	109-99-9	
Toluene	1.2	ug/m3	1.1	0.52	1.49		10/11/19 20:42	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	5.5	1.49		10/11/19 20:42	120-82-1	
1,1,1-Trichloroethane	<0.46	ug/m3	1.7	0.46	1.49		10/11/19 20:42	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.83	0.36	1.49		10/11/19 20:42	79-00-5	
Trichloroethene	<0.38	ug/m3	0.81	0.38	1.49		10/11/19 20:42	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.7	0.55	1.49		10/11/19 20:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	0.84	1.49		10/11/19 20:42	76-13-1	
1,2,4-Trimethylbenzene	<0.67	ug/m3	1.5	0.67	1.49		10/11/19 20:42	95-63-6	
1,3,5-Trimethylbenzene	<0.59	ug/m3	1.5	0.59	1.49		10/11/19 20:42	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	0.40	1.49		10/11/19 20:42	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		10/11/19 20:42	75-01-4	
m&p-Xylene	<1.0	ug/m3	2.6	1.0	1.49		10/11/19 20:42	179601-23-1	
o-Xylene	<0.51	ug/m3	1.3	0.51	1.49		10/11/19 20:42	95-47-6	

**Sample: IA-5**      **Lab ID: 10494361005**      Collected: 10/03/19 16:39      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	21.0	ug/m3	3.7	1.9	1.55		10/11/19 19:21	67-64-1	
Benzene	<0.24	ug/m3	0.50	0.24	1.55		10/11/19 19:21	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.1	1.9	1.55		10/11/19 19:21	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.1	0.57	1.55		10/11/19 19:21	75-27-4	
Bromoform	<2.2	ug/m3	8.1	2.2	1.55		10/11/19 19:21	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.55		10/11/19 19:21	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.70	0.20	1.55		10/11/19 19:21	106-99-0	
2-Butanone (MEK)	3.6J	ug/m3	4.6	0.57	1.55		10/11/19 19:21	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.98	0.34	1.55		10/11/19 19:21	75-15-0	
Carbon tetrachloride	<0.66	ug/m3	2.0	0.66	1.55		10/11/19 19:21	56-23-5	
Chlorobenzene	<0.43	ug/m3	1.5	0.43	1.55		10/11/19 19:21	108-90-7	
Chloroethane	<0.40	ug/m3	0.83	0.40	1.55		10/11/19 19:21	75-00-3	
Chloroform	<0.30	ug/m3	0.77	0.30	1.55		10/11/19 19:21	67-66-3	
Chloromethane	0.66	ug/m3	0.65	0.24	1.55		10/11/19 19:21	74-87-3	
Cyclohexane	<0.55	ug/m3	2.7	0.55	1.55		10/11/19 19:21	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.7	1.1	1.55		10/11/19 19:21	124-48-1	
1,2-Dibromoethane (EDB)	<0.57	ug/m3	1.2	0.57	1.55		10/11/19 19:21	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	1.9	0.77	1.55		10/11/19 19:21	95-50-1	
1,3-Dichlorobenzene	<0.90	ug/m3	1.9	0.90	1.55		10/11/19 19:21	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.7	1.6	1.55		10/11/19 19:21	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.6	0.45	1.55		10/11/19 19:21	75-71-8	
1,1-Dichloroethane	<0.35	ug/m3	1.3	0.35	1.55		10/11/19 19:21	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.64	0.23	1.55		10/11/19 19:21	107-06-2	

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### ANALYTICAL RESULTS

Project: 18883 MPS

Pace Project No.: 10494361

**Sample:** IA-5      **Lab ID:** 10494361005      Collected: 10/03/19 16:39      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.55		10/11/19 19:21	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.55		10/11/19 19:21	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		10/11/19 19:21	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.5	0.36	1.55		10/11/19 19:21	78-87-5	
cis-1,3-Dichloropropene	<0.47	ug/m3	1.4	0.47	1.55		10/11/19 19:21	10061-01-5	
trans-1,3-Dichloropropene	<0.68	ug/m3	1.4	0.68	1.55		10/11/19 19:21	10061-02-6	
Dichlorotetrafluoroethane	<0.68	ug/m3	2.2	0.68	1.55		10/11/19 19:21	76-14-2	
Ethanol	491	ug/m3	3.0	1.3	1.55		10/11/19 19:21	64-17-5	E
Ethyl acetate	<0.29	ug/m3	1.1	0.29	1.55		10/11/19 19:21	141-78-6	
Ethylbenzene	<0.47	ug/m3	1.4	0.47	1.55		10/11/19 19:21	100-41-4	
4-Ethyltoluene	<0.88	ug/m3	3.9	0.88	1.55		10/11/19 19:21	622-96-8	
n-Heptane	<0.59	ug/m3	1.3	0.59	1.55		10/11/19 19:21	142-82-5	
Hexachloro-1,3-butadiene	<3.1	ug/m3	8.4	3.1	1.55		10/11/19 19:21	87-68-3	
n-Hexane	<0.48	ug/m3	1.1	0.48	1.55		10/11/19 19:21	110-54-3	
2-Hexanone	<1.2	ug/m3	6.4	1.2	1.55		10/11/19 19:21	591-78-6	
Methylene Chloride	<1.9	ug/m3	5.5	1.9	1.55		10/11/19 19:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/m3	6.4	0.80	1.55		10/11/19 19:21	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.7	1.0	1.55		10/11/19 19:21	1634-04-4	
Naphthalene	<2.0	ug/m3	4.1	2.0	1.55		10/11/19 19:21	91-20-3	
2-Propanol	1440	ug/m3	3.9	1.1	1.55		10/11/19 19:21	67-63-0	E
Propylene	<0.22	ug/m3	0.54	0.22	1.55		10/11/19 19:21	115-07-1	
Styrene	<0.53	ug/m3	1.3	0.53	1.55		10/11/19 19:21	100-42-5	
1,1,2,2-Tetrachloroethane	<0.48	ug/m3	1.1	0.48	1.55		10/11/19 19:21	79-34-5	
Tetrachloroethene	<0.49	ug/m3	1.1	0.49	1.55		10/11/19 19:21	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.93	0.40	1.55		10/11/19 19:21	109-99-9	
Toluene	3.6	ug/m3	1.2	0.54	1.55		10/11/19 19:21	108-88-3	
1,2,4-Trichlorobenzene	<5.8	ug/m3	11.7	5.8	1.55		10/11/19 19:21	120-82-1	
1,1,1-Trichloroethane	<0.48	ug/m3	1.7	0.48	1.55		10/11/19 19:21	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.86	0.38	1.55		10/11/19 19:21	79-00-5	
Trichloroethene	<0.39	ug/m3	0.85	0.39	1.55		10/11/19 19:21	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	1.8	0.57	1.55		10/11/19 19:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.87	ug/m3	2.4	0.87	1.55		10/11/19 19:21	76-13-1	
1,2,4-Trimethylbenzene	<0.70	ug/m3	1.5	0.70	1.55		10/11/19 19:21	95-63-6	
1,3,5-Trimethylbenzene	<0.62	ug/m3	1.5	0.62	1.55		10/11/19 19:21	108-67-8	
Vinyl acetate	<0.42	ug/m3	1.1	0.42	1.55		10/11/19 19:21	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		10/11/19 19:21	75-01-4	
m&p-Xylene	<1.1	ug/m3	2.7	1.1	1.55		10/11/19 19:21	179601-23-1	
o-Xylene	<0.53	ug/m3	1.4	0.53	1.55		10/11/19 19:21	95-47-6	

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## ANALYTICAL RESULTS

Project: 18883 MPS

Pace Project No.: 10494361

Sample: IA-6 Lab ID: 10494361006 Collected: 10/03/19 16:46 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	7.7	ug/m3	3.6	1.8	1.49		10/11/19 20:15	67-64-1	
Benzene	<0.23	ug/m3	0.48	0.23	1.49		10/11/19 20:15	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.8	1.49		10/11/19 20:15	100-44-7	
Bromodichloromethane	<0.55	ug/m3	2.0	0.55	1.49		10/11/19 20:15	75-27-4	
Bromoform	<2.1	ug/m3	7.8	2.1	1.49		10/11/19 20:15	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	0.34	1.49		10/11/19 20:15	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	0.19	1.49		10/11/19 20:15	106-99-0	
2-Butanone (MEK)	<0.55	ug/m3	4.5	0.55	1.49		10/11/19 20:15	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.94	0.33	1.49		10/11/19 20:15	75-15-0	
Carbon tetrachloride	<0.64	ug/m3	1.9	0.64	1.49		10/11/19 20:15	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	0.41	1.49		10/11/19 20:15	108-90-7	
Chloroethane	<0.39	ug/m3	0.80	0.39	1.49		10/11/19 20:15	75-00-3	
Chloroform	<0.29	ug/m3	0.74	0.29	1.49		10/11/19 20:15	67-66-3	
Chloromethane	0.76	ug/m3	0.63	0.23	1.49		10/11/19 20:15	74-87-3	
Cyclohexane	<0.53	ug/m3	2.6	0.53	1.49		10/11/19 20:15	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.49		10/11/19 20:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	0.55	1.49		10/11/19 20:15	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	0.74	1.49		10/11/19 20:15	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	0.87	1.49		10/11/19 20:15	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.6	1.5	1.49		10/11/19 20:15	106-46-7	
Dichlorodifluoromethane	2.5	ug/m3	1.5	0.44	1.49		10/11/19 20:15	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.2	0.34	1.49		10/11/19 20:15	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.61	0.22	1.49		10/11/19 20:15	107-06-2	
1,1-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.49		10/11/19 20:15	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.49		10/11/19 20:15	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.49		10/11/19 20:15	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	0.34	1.49		10/11/19 20:15	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	0.45	1.49		10/11/19 20:15	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	0.66	1.49		10/11/19 20:15	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	0.65	1.49		10/11/19 20:15	76-14-2	
Ethanol	61.6	ug/m3	2.9	1.2	1.49		10/11/19 20:15	64-17-5	
Ethyl acetate	<0.28	ug/m3	1.1	0.28	1.49		10/11/19 20:15	141-78-6	
Ethylbenzene	<0.45	ug/m3	1.3	0.45	1.49		10/11/19 20:15	100-41-4	
4-Ethyltoluene	<0.85	ug/m3	3.7	0.85	1.49		10/11/19 20:15	622-96-8	
n-Heptane	0.87J	ug/m3	1.2	0.57	1.49		10/11/19 20:15	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	2.9	1.49		10/11/19 20:15	87-68-3	
n-Hexane	<0.46	ug/m3	1.1	0.46	1.49		10/11/19 20:15	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.1	1.49		10/11/19 20:15	591-78-6	
Methylene Chloride	<1.8	ug/m3	5.3	1.8	1.49		10/11/19 20:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.2	0.77	1.49		10/11/19 20:15	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	0.99	1.49		10/11/19 20:15	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.49		10/11/19 20:15	91-20-3	
2-Propanol	190	ug/m3	3.7	1.0	1.49		10/11/19 20:15	67-63-0	
Propylene	0.64	ug/m3	0.52	0.21	1.49		10/11/19 20:15	115-07-1	
Styrene	<0.51	ug/m3	1.3	0.51	1.49		10/11/19 20:15	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	1.0	0.46	1.49		10/11/19 20:15	79-34-5	

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### ANALYTICAL RESULTS

Project: 18883 MPS  
Pace Project No.: 10494361

**Sample: IA-6**      **Lab ID: 10494361006**      Collected: 10/03/19 16:46      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Tetrachloroethene	<0.47	ug/m3	1.0	0.47	1.49		10/11/19 20:15	127-18-4	
Tetrahydrofuran	<0.39	ug/m3	0.89	0.39	1.49		10/11/19 20:15	109-99-9	
Toluene	<b>0.58J</b>	ug/m3	1.1	0.52	1.49		10/11/19 20:15	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	5.5	1.49		10/11/19 20:15	120-82-1	
1,1,1-Trichloroethane	<0.46	ug/m3	1.7	0.46	1.49		10/11/19 20:15	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.83	0.36	1.49		10/11/19 20:15	79-00-5	
Trichloroethene	<0.38	ug/m3	0.81	0.38	1.49		10/11/19 20:15	79-01-6	
Trichlorofluoromethane	<b>1.6J</b>	ug/m3	1.7	0.55	1.49		10/11/19 20:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	0.84	1.49		10/11/19 20:15	76-13-1	
1,2,4-Trimethylbenzene	<0.67	ug/m3	1.5	0.67	1.49		10/11/19 20:15	95-63-6	
1,3,5-Trimethylbenzene	<0.59	ug/m3	1.5	0.59	1.49		10/11/19 20:15	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	0.40	1.49		10/11/19 20:15	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		10/11/19 20:15	75-01-4	
m&p-Xylene	<b>1.2J</b>	ug/m3	2.6	1.0	1.49		10/11/19 20:15	179601-23-1	
o-Xylene	<0.51	ug/m3	1.3	0.51	1.49		10/11/19 20:15	95-47-6	

**Sample: IA-7**      **Lab ID: 10494361007**      Collected: 10/03/19 17:11      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	<b>20.1</b>	ug/m3	3.5	1.7	1.44		10/11/19 22:07	67-64-1	
Benzene	<b>2.2</b>	ug/m3	0.47	0.22	1.44		10/11/19 22:07	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.8	1.7	1.44		10/11/19 22:07	100-44-7	
Bromodichloromethane	<0.53	ug/m3	2.0	0.53	1.44		10/11/19 22:07	75-27-4	
Bromoform	<2.0	ug/m3	7.6	2.0	1.44		10/11/19 22:07	75-25-2	
Bromomethane	<0.33	ug/m3	1.1	0.33	1.44		10/11/19 22:07	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.65	0.18	1.44		10/11/19 22:07	106-99-0	
2-Butanone (MEK)	<b>0.75J</b>	ug/m3	4.3	0.53	1.44		10/11/19 22:07	78-93-3	
Carbon disulfide	<b>0.80J</b>	ug/m3	0.91	0.32	1.44		10/11/19 22:07	75-15-0	
Carbon tetrachloride	<0.62	ug/m3	1.8	0.62	1.44		10/11/19 22:07	56-23-5	
Chlorobenzene	<0.40	ug/m3	1.3	0.40	1.44		10/11/19 22:07	108-90-7	
Chloroethane	<0.37	ug/m3	0.77	0.37	1.44		10/11/19 22:07	75-00-3	
Chloroform	<0.28	ug/m3	0.71	0.28	1.44		10/11/19 22:07	67-66-3	
Chloromethane	<b>2.3</b>	ug/m3	0.60	0.22	1.44		10/11/19 22:07	74-87-3	
Cyclohexane	<0.51	ug/m3	2.5	0.51	1.44		10/11/19 22:07	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.5	1.0	1.44		10/11/19 22:07	124-48-1	
1,2-Dibromoethane (EDB)	<0.53	ug/m3	1.1	0.53	1.44		10/11/19 22:07	106-93-4	
1,2-Dichlorobenzene	<0.72	ug/m3	1.8	0.72	1.44		10/11/19 22:07	95-50-1	
1,3-Dichlorobenzene	<0.84	ug/m3	1.8	0.84	1.44		10/11/19 22:07	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.4	1.4	1.44		10/11/19 22:07	106-46-7	
Dichlorodifluoromethane	<b>2.2</b>	ug/m3	1.5	0.42	1.44		10/11/19 22:07	75-71-8	
1,1-Dichloroethane	<0.32	ug/m3	1.2	0.32	1.44		10/11/19 22:07	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.59	0.22	1.44		10/11/19 22:07	107-06-2	

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### ANALYTICAL RESULTS

Project: 18883 MPS  
Pace Project No.: 10494361

**Sample: IA-7**      **Lab ID: 10494361007**      Collected: 10/03/19 17:11      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
1,1-Dichloroethene	<0.39	ug/m3	1.2	0.39	1.44		10/11/19 22:07	75-35-4	
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	0.32	1.44		10/11/19 22:07	156-59-2	
trans-1,2-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.44		10/11/19 22:07	156-60-5	
1,2-Dichloropropane	<0.33	ug/m3	1.4	0.33	1.44		10/11/19 22:07	78-87-5	
cis-1,3-Dichloropropene	<0.44	ug/m3	1.3	0.44	1.44		10/11/19 22:07	10061-01-5	
trans-1,3-Dichloropropene	<0.63	ug/m3	1.3	0.63	1.44		10/11/19 22:07	10061-02-6	
Dichlorotetrafluoroethane	<0.63	ug/m3	2.0	0.63	1.44		10/11/19 22:07	76-14-2	
Ethanol	515	ug/m3	2.8	1.2	1.44		10/11/19 22:07	64-17-5	E
Ethyl acetate	<0.27	ug/m3	1.1	0.27	1.44		10/11/19 22:07	141-78-6	
Ethylbenzene	0.61J	ug/m3	1.3	0.44	1.44		10/11/19 22:07	100-41-4	
4-Ethyltoluene	1.4J	ug/m3	3.6	0.82	1.44		10/11/19 22:07	622-96-8	
n-Heptane	<0.55	ug/m3	1.2	0.55	1.44		10/11/19 22:07	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	7.8	2.8	1.44		10/11/19 22:07	87-68-3	
n-Hexane	1.2	ug/m3	1.0	0.45	1.44		10/11/19 22:07	110-54-3	
2-Hexanone	<1.1	ug/m3	6.0	1.1	1.44		10/11/19 22:07	591-78-6	
Methylene Chloride	14.6	ug/m3	5.1	1.7	1.44		10/11/19 22:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.75	ug/m3	6.0	0.75	1.44		10/11/19 22:07	108-10-1	
Methyl-tert-butyl ether	<0.95	ug/m3	5.3	0.95	1.44		10/11/19 22:07	1634-04-4	
Naphthalene	<1.9	ug/m3	3.8	1.9	1.44		10/11/19 22:07	91-20-3	
2-Propanol	640	ug/m3	3.6	1.0	1.44		10/11/19 22:07	67-63-0	E
Propylene	<0.20	ug/m3	0.50	0.20	1.44		10/11/19 22:07	115-07-1	
Styrene	2.7	ug/m3	1.2	0.50	1.44		10/11/19 22:07	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.0	0.44	1.44		10/11/19 22:07	79-34-5	
Tetrachloroethene	<0.45	ug/m3	0.99	0.45	1.44		10/11/19 22:07	127-18-4	
Tetrahydrofuran	<0.38	ug/m3	0.86	0.38	1.44		10/11/19 22:07	109-99-9	
Toluene	2.9	ug/m3	1.1	0.51	1.44		10/11/19 22:07	108-88-3	
1,2,4-Trichlorobenzene	<5.4	ug/m3	10.9	5.4	1.44		10/11/19 22:07	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/m3	1.6	0.44	1.44		10/11/19 22:07	71-55-6	
1,1,2-Trichloroethane	<0.35	ug/m3	0.80	0.35	1.44		10/11/19 22:07	79-00-5	
Trichloroethene	<0.36	ug/m3	0.79	0.36	1.44		10/11/19 22:07	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.6	0.53	1.44		10/11/19 22:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.81	ug/m3	2.2	0.81	1.44		10/11/19 22:07	76-13-1	
1,2,4-Trimethylbenzene	3.7	ug/m3	1.4	0.65	1.44		10/11/19 22:07	95-63-6	
1,3,5-Trimethylbenzene	1.0J	ug/m3	1.4	0.57	1.44		10/11/19 22:07	108-67-8	
Vinyl acetate	<0.39	ug/m3	1.0	0.39	1.44		10/11/19 22:07	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.44		10/11/19 22:07	75-01-4	
m&p-Xylene	2.9	ug/m3	2.5	1.0	1.44		10/11/19 22:07	179601-23-1	
o-Xylene	1.6	ug/m3	1.3	0.50	1.44		10/11/19 22:07	95-47-6	

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## ANALYTICAL RESULTS

Project: 18883 MPS

Pace Project No.: 10494361

**Sample: IA-8**      **Lab ID: 10494361008**      Collected: 10/03/19 17:14      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	18.5	ug/m3	5.4	2.7	2.25		10/11/19 21:13	67-64-1	
Benzene	<0.34	ug/m3	0.73	0.34	2.25		10/11/19 21:13	71-43-2	
Benzyl chloride	<2.7	ug/m3	5.9	2.7	2.25		10/11/19 21:13	100-44-7	
Bromodichloromethane	<0.82	ug/m3	3.1	0.82	2.25		10/11/19 21:13	75-27-4	
Bromoform	<3.2	ug/m3	11.8	3.2	2.25		10/11/19 21:13	75-25-2	
Bromomethane	<0.51	ug/m3	1.8	0.51	2.25		10/11/19 21:13	74-83-9	
1,3-Butadiene	<0.29	ug/m3	1.0	0.29	2.25		10/11/19 21:13	106-99-0	
2-Butanone (MEK)	2.6J	ug/m3	6.8	0.83	2.25		10/11/19 21:13	78-93-3	
Carbon disulfide	<0.49	ug/m3	1.4	0.49	2.25		10/11/19 21:13	75-15-0	
Carbon tetrachloride	<0.97	ug/m3	2.9	0.97	2.25		10/11/19 21:13	56-23-5	
Chlorobenzene	<0.62	ug/m3	2.1	0.62	2.25		10/11/19 21:13	108-90-7	
Chloroethane	<0.58	ug/m3	1.2	0.58	2.25		10/11/19 21:13	75-00-3	
Chloroform	<0.44	ug/m3	1.1	0.44	2.25		10/11/19 21:13	67-66-3	
Chloromethane	0.76J	ug/m3	0.94	0.35	2.25		10/11/19 21:13	74-87-3	
Cyclohexane	<0.79	ug/m3	3.9	0.79	2.25		10/11/19 21:13	110-82-7	
Dibromochloromethane	<1.6	ug/m3	3.9	1.6	2.25		10/11/19 21:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.82	ug/m3	1.8	0.82	2.25		10/11/19 21:13	106-93-4	
1,2-Dichlorobenzene	<1.1	ug/m3	2.7	1.1	2.25		10/11/19 21:13	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/m3	2.7	1.3	2.25		10/11/19 21:13	541-73-1	
1,4-Dichlorobenzene	<2.2	ug/m3	6.9	2.2	2.25		10/11/19 21:13	106-46-7	
Dichlorodifluoromethane	1.9J	ug/m3	2.3	0.66	2.25		10/11/19 21:13	75-71-8	
1,1-Dichloroethane	<0.51	ug/m3	1.9	0.51	2.25		10/11/19 21:13	75-34-3	
1,2-Dichloroethane	<0.34	ug/m3	0.92	0.34	2.25		10/11/19 21:13	107-06-2	
1,1-Dichloroethene	<0.62	ug/m3	1.8	0.62	2.25		10/11/19 21:13	75-35-4	
cis-1,2-Dichloroethene	<0.49	ug/m3	1.8	0.49	2.25		10/11/19 21:13	156-59-2	
trans-1,2-Dichloroethene	<0.64	ug/m3	1.8	0.64	2.25		10/11/19 21:13	156-60-5	
1,2-Dichloropropane	<0.52	ug/m3	2.1	0.52	2.25		10/11/19 21:13	78-87-5	
cis-1,3-Dichloropropene	<0.68	ug/m3	2.1	0.68	2.25		10/11/19 21:13	10061-01-5	
trans-1,3-Dichloropropene	<0.99	ug/m3	2.1	0.99	2.25		10/11/19 21:13	10061-02-6	
Dichlorotetrafluoroethane	<0.98	ug/m3	3.2	0.98	2.25		10/11/19 21:13	76-14-2	
Ethanol	386	ug/m3	4.3	1.8	2.25		10/11/19 21:13	64-17-5	
Ethyl acetate	<0.43	ug/m3	1.6	0.43	2.25		10/11/19 21:13	141-78-6	
Ethylbenzene	<0.69	ug/m3	2.0	0.69	2.25		10/11/19 21:13	100-41-4	
4-Ethyltoluene	<1.3	ug/m3	5.6	1.3	2.25		10/11/19 21:13	622-96-8	
n-Heptane	<0.86	ug/m3	1.9	0.86	2.25		10/11/19 21:13	142-82-5	
Hexachloro-1,3-butadiene	<4.4	ug/m3	12.2	4.4	2.25		10/11/19 21:13	87-68-3	
n-Hexane	0.94J	ug/m3	1.6	0.70	2.25		10/11/19 21:13	110-54-3	
2-Hexanone	<1.7	ug/m3	9.4	1.7	2.25		10/11/19 21:13	591-78-6	
Methylene Chloride	7.4J	ug/m3	7.9	2.7	2.25		10/11/19 21:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.2J	ug/m3	9.4	1.2	2.25		10/11/19 21:13	108-10-1	
Methyl-tert-butyl ether	<1.5	ug/m3	8.2	1.5	2.25		10/11/19 21:13	1634-04-4	
Naphthalene	<2.9	ug/m3	6.0	2.9	2.25		10/11/19 21:13	91-20-3	
2-Propanol	733	ug/m3	5.6	1.6	2.25		10/11/19 21:13	67-63-0	
Propylene	1.1	ug/m3	0.79	0.32	2.25		10/11/19 21:13	115-07-1	
Styrene	<0.77	ug/m3	1.9	0.77	2.25		10/11/19 21:13	100-42-5	
1,1,2,2-Tetrachloroethane	<0.70	ug/m3	1.6	0.70	2.25		10/11/19 21:13	79-34-5	

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### ANALYTICAL RESULTS

Project: 18883 MPS

Pace Project No.: 10494361

Sample: IA-8 Lab ID: 10494361008 Collected: 10/03/19 17:14 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	<0.71	ug/m3	1.6	0.71	2.25		10/11/19 21:13	127-18-4	
Tetrahydrofuran	<0.59	ug/m3	1.4	0.59	2.25		10/11/19 21:13	109-99-9	
Toluene	6.7	ug/m3	1.7	0.79	2.25		10/11/19 21:13	108-88-3	
1,2,4-Trichlorobenzene	<8.4	ug/m3	17.0	8.4	2.25		10/11/19 21:13	120-82-1	
1,1,1-Trichloroethane	<0.70	ug/m3	2.5	0.70	2.25		10/11/19 21:13	71-55-6	
1,1,2-Trichloroethane	<0.54	ug/m3	1.2	0.54	2.25		10/11/19 21:13	79-00-5	
Trichloroethene	<0.57	ug/m3	1.2	0.57	2.25		10/11/19 21:13	79-01-6	
Trichlorofluoromethane	1.7J	ug/m3	2.6	0.82	2.25		10/11/19 21:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	<1.3	ug/m3	3.5	1.3	2.25		10/11/19 21:13	76-13-1	
1,2,4-Trimethylbenzene	<1.0	ug/m3	2.2	1.0	2.25		10/11/19 21:13	95-63-6	
1,3,5-Trimethylbenzene	<0.90	ug/m3	2.2	0.90	2.25		10/11/19 21:13	108-67-8	
Vinyl acetate	<0.61	ug/m3	1.6	0.61	2.25		10/11/19 21:13	108-05-4	
Vinyl chloride	<0.28	ug/m3	0.58	0.28	2.25		10/11/19 21:13	75-01-4	
m&p-Xylene	<1.6	ug/m3	4.0	1.6	2.25		10/11/19 21:13	179601-23-1	
o-Xylene	<0.77	ug/m3	2.0	0.77	2.25		10/11/19 21:13	95-47-6	

Sample: IA-9 Lab ID: 10494361009 Collected: 10/03/19 16:57 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	39.1	ug/m3	3.7	1.8	1.52		10/11/19 19:48	67-64-1	
Benzene	<0.23	ug/m3	0.49	0.23	1.52		10/11/19 19:48	71-43-2	
Benzyl chloride	<1.8	ug/m3	4.0	1.8	1.52		10/11/19 19:48	100-44-7	
Bromodichloromethane	<0.56	ug/m3	2.1	0.56	1.52		10/11/19 19:48	75-27-4	
Bromoform	<2.2	ug/m3	8.0	2.2	1.52		10/11/19 19:48	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.52		10/11/19 19:48	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.68	0.19	1.52		10/11/19 19:48	106-99-0	
2-Butanone (MEK)	2.0J	ug/m3	4.6	0.56	1.52		10/11/19 19:48	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.96	0.33	1.52		10/11/19 19:48	75-15-0	
Carbon tetrachloride	<0.65	ug/m3	1.9	0.65	1.52		10/11/19 19:48	56-23-5	
Chlorobenzene	<0.42	ug/m3	1.4	0.42	1.52		10/11/19 19:48	108-90-7	
Chloroethane	<0.40	ug/m3	0.81	0.40	1.52		10/11/19 19:48	75-00-3	
Chloroform	<0.30	ug/m3	0.75	0.30	1.52		10/11/19 19:48	67-66-3	
Chloromethane	0.76	ug/m3	0.64	0.24	1.52		10/11/19 19:48	74-87-3	
Cyclohexane	<0.54	ug/m3	2.7	0.54	1.52		10/11/19 19:48	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.52		10/11/19 19:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/m3	1.2	0.56	1.52		10/11/19 19:48	106-93-4	
1,2-Dichlorobenzene	<0.76	ug/m3	1.9	0.76	1.52		10/11/19 19:48	95-50-1	
1,3-Dichlorobenzene	<0.88	ug/m3	1.9	0.88	1.52		10/11/19 19:48	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.7	1.5	1.52		10/11/19 19:48	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.5	0.45	1.52		10/11/19 19:48	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.3	0.34	1.52		10/11/19 19:48	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.62	0.23	1.52		10/11/19 19:48	107-06-2	

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## ANALYTICAL RESULTS

Project: 18883 MPS

Pace Project No.: 10494361

**Sample: IA-9**      **Lab ID: 10494361009**      Collected: 10/03/19 16:57      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.52		10/11/19 19:48	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.52		10/11/19 19:48	156-59-2	
trans-1,2-Dichloroethene	<0.43	ug/m3	1.2	0.43	1.52		10/11/19 19:48	156-60-5	
1,2-Dichloropropane	<0.35	ug/m3	1.4	0.35	1.52		10/11/19 19:48	78-87-5	
cis-1,3-Dichloropropene	<0.46	ug/m3	1.4	0.46	1.52		10/11/19 19:48	10061-01-5	
trans-1,3-Dichloropropene	<0.67	ug/m3	1.4	0.67	1.52		10/11/19 19:48	10061-02-6	
Dichlorotetrafluoroethane	<0.66	ug/m3	2.2	0.66	1.52		10/11/19 19:48	76-14-2	
Ethanol	1710	ug/m3	233	98.7	121.6		10/12/19 15:03	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.1	0.29	1.52		10/11/19 19:48	141-78-6	
Ethylbenzene	<0.46	ug/m3	1.3	0.46	1.52		10/11/19 19:48	100-41-4	
4-Ethyltoluene	<0.87	ug/m3	3.8	0.87	1.52		10/11/19 19:48	622-96-8	
n-Heptane	<0.58	ug/m3	1.3	0.58	1.52		10/11/19 19:48	142-82-5	
Hexachloro-1,3-butadiene	<3.0	ug/m3	8.2	3.0	1.52		10/11/19 19:48	87-68-3	
n-Hexane	<0.47	ug/m3	1.1	0.47	1.52		10/11/19 19:48	110-54-3	
2-Hexanone	<1.1	ug/m3	6.3	1.1	1.52		10/11/19 19:48	591-78-6	
Methylene Chloride	<1.8	ug/m3	5.4	1.8	1.52		10/11/19 19:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.79	ug/m3	6.3	0.79	1.52		10/11/19 19:48	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.6	1.0	1.52		10/11/19 19:48	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.52		10/11/19 19:48	91-20-3	
2-Propanol	25200	ug/m3	304	84.8	121.6		10/12/19 15:03	67-63-0	
Propylene	0.72	ug/m3	0.53	0.21	1.52		10/11/19 19:48	115-07-1	
Styrene	<0.52	ug/m3	1.3	0.52	1.52		10/11/19 19:48	100-42-5	
1,1,2,2-Tetrachloroethane	<0.47	ug/m3	1.1	0.47	1.52		10/11/19 19:48	79-34-5	
Tetrachloroethene	<0.48	ug/m3	1.0	0.48	1.52		10/11/19 19:48	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.91	0.40	1.52		10/11/19 19:48	109-99-9	
Toluene	0.64J	ug/m3	1.2	0.53	1.52		10/11/19 19:48	108-88-3	
1,2,4-Trichlorobenzene	<5.7	ug/m3	11.5	5.7	1.52		10/11/19 19:48	120-82-1	
1,1,1-Trichloroethane	<0.47	ug/m3	1.7	0.47	1.52		10/11/19 19:48	71-55-6	
1,1,2-Trichloroethane	<0.37	ug/m3	0.84	0.37	1.52		10/11/19 19:48	79-00-5	
Trichloroethene	<0.38	ug/m3	0.83	0.38	1.52		10/11/19 19:48	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.7	0.56	1.52		10/11/19 19:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.86	ug/m3	2.4	0.86	1.52		10/11/19 19:48	76-13-1	
1,2,4-Trimethylbenzene	<0.69	ug/m3	1.5	0.69	1.52		10/11/19 19:48	95-63-6	
1,3,5-Trimethylbenzene	<0.61	ug/m3	1.5	0.61	1.52		10/11/19 19:48	108-67-8	
Vinyl acetate	<0.41	ug/m3	1.1	0.41	1.52		10/11/19 19:48	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.40	0.19	1.52		10/11/19 19:48	75-01-4	
m&p-Xylene	<1.1	ug/m3	2.7	1.1	1.52		10/11/19 19:48	179601-23-1	
o-Xylene	<0.52	ug/m3	1.3	0.52	1.52		10/11/19 19:48	95-47-6	

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## ANALYTICAL RESULTS

Project: 18883 MPS

Pace Project No.: 10494361

**Sample: IA-10**      **Lab ID: 10494361010**      Collected: 10/03/19 16:59      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	36.1	ug/m3	3.6	1.8	1.49		10/11/19 18:54	67-64-1	
Benzene	<0.23	ug/m3	0.48	0.23	1.49		10/11/19 18:54	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.8	1.49		10/11/19 18:54	100-44-7	
Bromodichloromethane	<0.55	ug/m3	2.0	0.55	1.49		10/11/19 18:54	75-27-4	
Bromoform	<2.1	ug/m3	7.8	2.1	1.49		10/11/19 18:54	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	0.34	1.49		10/11/19 18:54	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	0.19	1.49		10/11/19 18:54	106-99-0	
2-Butanone (MEK)	2.2J	ug/m3	4.5	0.55	1.49		10/11/19 18:54	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.94	0.33	1.49		10/11/19 18:54	75-15-0	
Carbon tetrachloride	<0.64	ug/m3	1.9	0.64	1.49		10/11/19 18:54	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	0.41	1.49		10/11/19 18:54	108-90-7	
Chloroethane	<0.39	ug/m3	0.80	0.39	1.49		10/11/19 18:54	75-00-3	
Chloroform	<0.29	ug/m3	0.74	0.29	1.49		10/11/19 18:54	67-66-3	
Chloromethane	0.70	ug/m3	0.63	0.23	1.49		10/11/19 18:54	74-87-3	
Cyclohexane	<0.53	ug/m3	2.6	0.53	1.49		10/11/19 18:54	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.49		10/11/19 18:54	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	0.55	1.49		10/11/19 18:54	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	0.74	1.49		10/11/19 18:54	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	0.87	1.49		10/11/19 18:54	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.6	1.5	1.49		10/11/19 18:54	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	1.5	0.44	1.49		10/11/19 18:54	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.2	0.34	1.49		10/11/19 18:54	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.61	0.22	1.49		10/11/19 18:54	107-06-2	
1,1-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.49		10/11/19 18:54	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.49		10/11/19 18:54	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.49		10/11/19 18:54	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	0.34	1.49		10/11/19 18:54	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	0.45	1.49		10/11/19 18:54	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	0.66	1.49		10/11/19 18:54	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	0.65	1.49		10/11/19 18:54	76-14-2	
Ethanol	1410	ug/m3	229	96.8	119.2		10/12/19 14:38	64-17-5	
Ethyl acetate	<0.28	ug/m3	1.1	0.28	1.49		10/11/19 18:54	141-78-6	
Ethylbenzene	<0.45	ug/m3	1.3	0.45	1.49		10/11/19 18:54	100-41-4	
4-Ethyltoluene	<0.85	ug/m3	3.7	0.85	1.49		10/11/19 18:54	622-96-8	
n-Heptane	<0.57	ug/m3	1.2	0.57	1.49		10/11/19 18:54	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	2.9	1.49		10/11/19 18:54	87-68-3	
n-Hexane	<0.46	ug/m3	1.1	0.46	1.49		10/11/19 18:54	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.1	1.49		10/11/19 18:54	591-78-6	
Methylene Chloride	<1.8	ug/m3	5.3	1.8	1.49		10/11/19 18:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.2	0.77	1.49		10/11/19 18:54	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	0.99	1.49		10/11/19 18:54	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.49		10/11/19 18:54	91-20-3	
2-Propanol	25000	ug/m3	298	83.1	119.2		10/12/19 14:38	67-63-0	
Propylene	0.66	ug/m3	0.52	0.21	1.49		10/11/19 18:54	115-07-1	
Styrene	<0.51	ug/m3	1.3	0.51	1.49		10/11/19 18:54	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	1.0	0.46	1.49		10/11/19 18:54	79-34-5	

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### ANALYTICAL RESULTS

Project: 18883 MPS  
Pace Project No.: 10494361

**Sample: IA-10**      **Lab ID: 10494361010**      Collected: 10/03/19 16:59      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Tetrachloroethene	<0.47	ug/m3	1.0	0.47	1.49		10/11/19 18:54	127-18-4	
Tetrahydrofuran	<0.39	ug/m3	0.89	0.39	1.49		10/11/19 18:54	109-99-9	
Toluene	<0.52	ug/m3	1.1	0.52	1.49		10/11/19 18:54	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	5.5	1.49		10/11/19 18:54	120-82-1	
1,1,1-Trichloroethane	<0.46	ug/m3	1.7	0.46	1.49		10/11/19 18:54	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.83	0.36	1.49		10/11/19 18:54	79-00-5	
Trichloroethene	<0.38	ug/m3	0.81	0.38	1.49		10/11/19 18:54	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	1.7	0.55	1.49		10/11/19 18:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	0.84	1.49		10/11/19 18:54	76-13-1	
1,2,4-Trimethylbenzene	<0.67	ug/m3	1.5	0.67	1.49		10/11/19 18:54	95-63-6	
1,3,5-Trimethylbenzene	<0.59	ug/m3	1.5	0.59	1.49		10/11/19 18:54	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	0.40	1.49		10/11/19 18:54	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		10/11/19 18:54	75-01-4	
m&p-Xylene	<1.0	ug/m3	2.6	1.0	1.49		10/11/19 18:54	179601-23-1	
o-Xylene	<0.51	ug/m3	1.3	0.51	1.49		10/11/19 18:54	95-47-6	

**Sample: AA-1**      **Lab ID: 10494361011**      Collected: 10/03/19 17:02      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	10.8	ug/m3	3.6	1.8	1.49		10/11/19 17:59	67-64-1	
Benzene	<0.23	ug/m3	0.48	0.23	1.49		10/11/19 17:59	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.8	1.49		10/11/19 17:59	100-44-7	
Bromodichloromethane	<0.55	ug/m3	2.0	0.55	1.49		10/11/19 17:59	75-27-4	
Bromoform	<2.1	ug/m3	7.8	2.1	1.49		10/11/19 17:59	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	0.34	1.49		10/11/19 17:59	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	0.19	1.49		10/11/19 17:59	106-99-0	
2-Butanone (MEK)	1.5J	ug/m3	4.5	0.55	1.49		10/11/19 17:59	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.94	0.33	1.49		10/11/19 17:59	75-15-0	
Carbon tetrachloride	<0.64	ug/m3	1.9	0.64	1.49		10/11/19 17:59	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	0.41	1.49		10/11/19 17:59	108-90-7	
Chloroethane	<0.39	ug/m3	0.80	0.39	1.49		10/11/19 17:59	75-00-3	
Chloroform	<0.29	ug/m3	0.74	0.29	1.49		10/11/19 17:59	67-66-3	
Chloromethane	0.81	ug/m3	0.63	0.23	1.49		10/11/19 17:59	74-87-3	
Cyclohexane	<0.53	ug/m3	2.6	0.53	1.49		10/11/19 17:59	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.49		10/11/19 17:59	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	0.55	1.49		10/11/19 17:59	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	0.74	1.49		10/11/19 17:59	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	0.87	1.49		10/11/19 17:59	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.6	1.5	1.49		10/11/19 17:59	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	1.5	0.44	1.49		10/11/19 17:59	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.2	0.34	1.49		10/11/19 17:59	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.61	0.22	1.49		10/11/19 17:59	107-06-2	

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## ANALYTICAL RESULTS

Project: 18883 MPS

Pace Project No.: 10494361

**Sample: AA-1**      **Lab ID: 10494361011**      Collected: 10/03/19 17:02      Received: 10/04/19 12:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
1,1-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.49		10/11/19 17:59	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.49		10/11/19 17:59	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.49		10/11/19 17:59	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	0.34	1.49		10/11/19 17:59	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	0.45	1.49		10/11/19 17:59	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	0.66	1.49		10/11/19 17:59	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	0.65	1.49		10/11/19 17:59	76-14-2	
Ethanol	6.7	ug/m3	2.9	1.2	1.49		10/11/19 17:59	64-17-5	
Ethyl acetate	<0.28	ug/m3	1.1	0.28	1.49		10/11/19 17:59	141-78-6	
Ethylbenzene	<0.45	ug/m3	1.3	0.45	1.49		10/11/19 17:59	100-41-4	
4-Ethyltoluene	<0.85	ug/m3	3.7	0.85	1.49		10/11/19 17:59	622-96-8	
n-Heptane	<0.57	ug/m3	1.2	0.57	1.49		10/11/19 17:59	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	2.9	1.49		10/11/19 17:59	87-68-3	
n-Hexane	<0.46	ug/m3	1.1	0.46	1.49		10/11/19 17:59	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.1	1.49		10/11/19 17:59	591-78-6	
Methylene Chloride	<1.8	ug/m3	5.3	1.8	1.49		10/11/19 17:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.2	0.77	1.49		10/11/19 17:59	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	0.99	1.49		10/11/19 17:59	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.49		10/11/19 17:59	91-20-3	
2-Propanol	9.8	ug/m3	3.7	1.0	1.49		10/11/19 17:59	67-63-0	
Propylene	0.76	ug/m3	0.52	0.21	1.49		10/11/19 17:59	115-07-1	
Styrene	<0.51	ug/m3	1.3	0.51	1.49		10/11/19 17:59	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	1.0	0.46	1.49		10/11/19 17:59	79-34-5	
Tetrachloroethene	<0.47	ug/m3	1.0	0.47	1.49		10/11/19 17:59	127-18-4	
Tetrahydrofuran	<0.39	ug/m3	0.89	0.39	1.49		10/11/19 17:59	109-99-9	
Toluene	<0.52	ug/m3	1.1	0.52	1.49		10/11/19 17:59	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	5.5	1.49		10/11/19 17:59	120-82-1	
1,1,1-Trichloroethane	<0.46	ug/m3	1.7	0.46	1.49		10/11/19 17:59	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.83	0.36	1.49		10/11/19 17:59	79-00-5	
Trichloroethene	<0.38	ug/m3	0.81	0.38	1.49		10/11/19 17:59	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	1.7	0.55	1.49		10/11/19 17:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	0.84	1.49		10/11/19 17:59	76-13-1	
1,2,4-Trimethylbenzene	<0.67	ug/m3	1.5	0.67	1.49		10/11/19 17:59	95-63-6	
1,3,5-Trimethylbenzene	<0.59	ug/m3	1.5	0.59	1.49		10/11/19 17:59	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	0.40	1.49		10/11/19 17:59	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		10/11/19 17:59	75-01-4	
m&p-Xylene	<1.0	ug/m3	2.6	1.0	1.49		10/11/19 17:59	179601-23-1	
o-Xylene	<0.51	ug/m3	1.3	0.51	1.49		10/11/19 17:59	95-47-6	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 18883 MPS  
Pace Project No.: 10494361

QC Batch: 637787 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 10494361001, 10494361002, 10494361004, 10494361005, 10494361006, 10494361007, 10494361008, 10494361009, 10494361010, 10494361011

METHOD BLANK: 3437894 Matrix: Air  
Associated Lab Samples: 10494361001, 10494361002, 10494361004, 10494361005, 10494361006, 10494361007, 10494361008, 10494361009, 10494361010, 10494361011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	0.56	10/11/19 08:44	
1,1,2,2-Tetrachloroethane	ug/m3	<0.15	0.35	10/11/19 08:44	
1,1,2-Trichloroethane	ug/m3	<0.12	0.28	10/11/19 08:44	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.28	0.78	10/11/19 08:44	
1,1-Dichloroethane	ug/m3	<0.11	0.41	10/11/19 08:44	
1,1-Dichloroethene	ug/m3	<0.14	0.40	10/11/19 08:44	
1,2,4-Trichlorobenzene	ug/m3	<1.9	3.8	10/11/19 08:44	
1,2,4-Trimethylbenzene	ug/m3	<0.23	0.50	10/11/19 08:44	
1,2-Dibromoethane (EDB)	ug/m3	<0.18	0.39	10/11/19 08:44	
1,2-Dichlorobenzene	ug/m3	<0.25	0.61	10/11/19 08:44	
1,2-Dichloroethane	ug/m3	<0.075	0.21	10/11/19 08:44	
1,2-Dichloropropane	ug/m3	<0.12	0.47	10/11/19 08:44	
1,3,5-Trimethylbenzene	ug/m3	<0.20	0.50	10/11/19 08:44	
1,3-Butadiene	ug/m3	<0.064	0.22	10/11/19 08:44	
1,3-Dichlorobenzene	ug/m3	<0.29	0.61	10/11/19 08:44	
1,4-Dichlorobenzene	ug/m3	<0.50	1.5	10/11/19 08:44	
2-Butanone (MEK)	ug/m3	<0.18	1.5	10/11/19 08:44	
2-Hexanone	ug/m3	<0.37	2.1	10/11/19 08:44	
2-Propanol	ug/m3	<0.35	1.2	10/11/19 08:44	
4-Ethyltoluene	ug/m3	<0.28	1.2	10/11/19 08:44	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.26	2.1	10/11/19 08:44	
Acetone	ug/m3	<0.60	1.2	10/11/19 08:44	
Benzene	ug/m3	<0.076	0.16	10/11/19 08:44	
Benzyl chloride	ug/m3	<0.60	1.3	10/11/19 08:44	
Bromodichloromethane	ug/m3	<0.18	0.68	10/11/19 08:44	
Bromoform	ug/m3	<0.71	2.6	10/11/19 08:44	
Bromomethane	ug/m3	<0.11	0.39	10/11/19 08:44	
Carbon disulfide	ug/m3	<0.11	0.32	10/11/19 08:44	
Carbon tetrachloride	ug/m3	<0.21	0.64	10/11/19 08:44	
Chlorobenzene	ug/m3	<0.14	0.47	10/11/19 08:44	
Chloroethane	ug/m3	<0.13	0.27	10/11/19 08:44	
Chloroform	ug/m3	<0.098	0.25	10/11/19 08:44	
Chloromethane	ug/m3	<0.078	0.21	10/11/19 08:44	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	10/11/19 08:44	
cis-1,3-Dichloropropene	ug/m3	<0.15	0.46	10/11/19 08:44	
Cyclohexane	ug/m3	<0.18	0.88	10/11/19 08:44	
Dibromochloromethane	ug/m3	<0.36	0.86	10/11/19 08:44	
Dichlorodifluoromethane	ug/m3	<0.15	0.50	10/11/19 08:44	
Dichlorotetrafluoroethane	ug/m3	<0.22	0.71	10/11/19 08:44	
Ethanol	ug/m3	<0.41	0.96	10/11/19 08:44	

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### QUALITY CONTROL DATA

Project: 18883 MPS  
Pace Project No.: 10494361

METHOD BLANK: 3437894 Matrix: Air  
Associated Lab Samples: 10494361001, 10494361002, 10494361004, 10494361005, 10494361006, 10494361007, 10494361008, 10494361009, 10494361010, 10494361011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.095	0.37	10/11/19 08:44	
Ethylbenzene	ug/m3	<0.15	0.44	10/11/19 08:44	
Hexachloro-1,3-butadiene	ug/m3	<0.98	2.7	10/11/19 08:44	
m&p-Xylene	ug/m3	<0.35	0.88	10/11/19 08:44	
Methyl-tert-butyl ether	ug/m3	<0.33	1.8	10/11/19 08:44	
Methylene Chloride	ug/m3	<0.60	1.8	10/11/19 08:44	
n-Heptane	ug/m3	<0.19	0.42	10/11/19 08:44	
n-Hexane	ug/m3	<0.16	0.36	10/11/19 08:44	
Naphthalene	ug/m3	<0.66	1.3	10/11/19 08:44	
o-Xylene	ug/m3	<0.17	0.44	10/11/19 08:44	
Propylene	ug/m3	<0.070	0.18	10/11/19 08:44	
Styrene	ug/m3	<0.17	0.43	10/11/19 08:44	
Tetrachloroethene	ug/m3	<0.16	0.34	10/11/19 08:44	
Tetrahydrofuran	ug/m3	<0.13	0.30	10/11/19 08:44	
Toluene	ug/m3	<0.18	0.38	10/11/19 08:44	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	10/11/19 08:44	
trans-1,3-Dichloropropene	ug/m3	<0.22	0.46	10/11/19 08:44	
Trichloroethene	ug/m3	<0.13	0.27	10/11/19 08:44	
Trichlorofluoromethane	ug/m3	<0.18	0.57	10/11/19 08:44	
Vinyl acetate	ug/m3	<0.14	0.36	10/11/19 08:44	
Vinyl chloride	ug/m3	<0.063	0.13	10/11/19 08:44	

LABORATORY CONTROL SAMPLE: 3437895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	60.8	110	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	72.6	104	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	58.0	105	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	77.8	100	70-130	
1,1-Dichloroethane	ug/m3	41.1	40.2	98	70-130	
1,1-Dichloroethene	ug/m3	40.3	43.5	108	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	83.0	110	56-130	
1,2,4-Trimethylbenzene	ug/m3	50	58.6	117	70-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	81.8	105	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	72.4	118	70-132	
1,2-Dichloroethane	ug/m3	41.1	45.1	110	70-130	
1,2-Dichloropropane	ug/m3	47	48.4	103	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	57.4	115	70-132	
1,3-Butadiene	ug/m3	22.5	22.2	99	65-130	
1,3-Dichlorobenzene	ug/m3	61.1	73.1	120	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	78.9	129	70-134	
2-Butanone (MEK)	ug/m3	30	29.6	99	70-130	
2-Hexanone	ug/m3	41.6	44.6	107	70-135	

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### QUALITY CONTROL DATA

Project: 18883 MPS

Pace Project No.: 10494361

LABORATORY CONTROL SAMPLE: 3437895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Propanol	ug/m3	125	129	103	68-130	
4-Ethyltoluene	ug/m3	50	60.6	121	70-138	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	42.1	101	70-131	
Acetone	ug/m3	121	115	95	67-130	
Benzene	ug/m3	32.5	35.4	109	70-130	
Benzyl chloride	ug/m3	52.6	65.9	125	70-130	
Bromodichloromethane	ug/m3	68.1	73.8	108	70-130	
Bromoform	ug/m3	105	113	108	70-132	
Bromomethane	ug/m3	39.5	40.2	102	69-130	
Carbon disulfide	ug/m3	31.6	32.9	104	56-137	
Carbon tetrachloride	ug/m3	64	70.6	110	66-131	
Chlorobenzene	ug/m3	46.8	51.5	110	70-130	
Chloroethane	ug/m3	26.8	27.4	102	70-130	
Chloroform	ug/m3	49.6	55.1	111	70-130	
Chloromethane	ug/m3	21	20.1	96	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	41.4	103	70-130	
cis-1,3-Dichloropropene	ug/m3	46.1	48.8	106	70-133	
Cyclohexane	ug/m3	35	38.6	110	68-132	
Dibromochloromethane	ug/m3	86.6	92.9	107	70-130	
Dichlorodifluoromethane	ug/m3	50.3	54.7	109	70-130	
Dichlorotetrafluoroethane	ug/m3	71	70.7	100	70-130	
Ethanol	ug/m3	95.8	94.5	99	68-133	
Ethyl acetate	ug/m3	36.6	35.3	96	69-130	
Ethylbenzene	ug/m3	44.1	48.4	110	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	115	106	66-137	
m&p-Xylene	ug/m3	88.3	98.0	111	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	39.4	108	70-130	
Methylene Chloride	ug/m3	177	188	107	65-130	
n-Heptane	ug/m3	41.7	40.7	98	65-130	
n-Hexane	ug/m3	35.8	35.8	100	66-130	
Naphthalene	ug/m3	53.3	55.5	104	56-130	
o-Xylene	ug/m3	44.1	47.4	107	70-130	
Propylene	ug/m3	17.5	17.5	100	67-130	
Styrene	ug/m3	43.3	52.2	121	69-136	
Tetrachloroethene	ug/m3	68.9	78.6	114	70-130	
Tetrahydrofuran	ug/m3	30	29.9	100	68-131	
Toluene	ug/m3	38.3	40.3	105	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	42.7	106	70-130	
trans-1,3-Dichloropropene	ug/m3	46.1	51.4	111	70-134	
Trichloroethene	ug/m3	54.6	57.0	104	70-130	
Trichlorofluoromethane	ug/m3	57.1	58.5	102	65-130	
Vinyl acetate	ug/m3	35.8	37.5	105	61-133	
Vinyl chloride	ug/m3	26	25.2	97	70-130	

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### QUALITY CONTROL DATA

Project: 18883 MPS  
Pace Project No.: 10494361

SAMPLE DUPLICATE: 3438765

Parameter	Units	10494361001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.53J	0.50J			25
1,1,2,2-Tetrachloroethane	ug/m3	<0.48	<0.48			25
1,1,2-Trichloroethane	ug/m3	<0.38	<0.38			25
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.87	<0.87			25
1,1-Dichloroethane	ug/m3	<0.35	<0.35			25
1,1-Dichloroethene	ug/m3	<0.42	<0.42			25
1,2,4-Trichlorobenzene	ug/m3	<5.8	<5.8			25
1,2,4-Trimethylbenzene	ug/m3	<0.70	<0.70			25
1,2-Dibromoethane (EDB)	ug/m3	<0.57	<0.57			25
1,2-Dichlorobenzene	ug/m3	<0.77	<0.77			25
1,2-Dichloroethane	ug/m3	<0.23	<0.23			25
1,2-Dichloropropane	ug/m3	<0.36	<0.36			25
1,3,5-Trimethylbenzene	ug/m3	<0.62	<0.62			25
1,3-Butadiene	ug/m3	<0.20	<0.20			25
1,3-Dichlorobenzene	ug/m3	<0.90	<0.90			25
1,4-Dichlorobenzene	ug/m3	<1.6	<1.6			25
2-Butanone (MEK)	ug/m3	1.5J	1.4J			25
2-Hexanone	ug/m3	<1.2	<1.2			25
2-Propanol	ug/m3	556	571	3		25
4-Ethyltoluene	ug/m3	<0.88	<0.88			25
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.80	<0.80			25
Acetone	ug/m3	13.1	12.6	4		25
Benzene	ug/m3	<0.24	<0.24			25
Benzyl chloride	ug/m3	<1.9	<1.9			25
Bromodichloromethane	ug/m3	<0.57	<0.57			25
Bromoform	ug/m3	<2.2	<2.2			25
Bromomethane	ug/m3	<0.35	<0.35			25
Carbon disulfide	ug/m3	<0.34	<0.34			25
Carbon tetrachloride	ug/m3	<0.66	<0.66			25
Chlorobenzene	ug/m3	<0.43	<0.43			25
Chloroethane	ug/m3	<0.40	<0.40			25
Chloroform	ug/m3	<0.30	<0.30			25
Chloromethane	ug/m3	0.75	0.77	3		25
cis-1,2-Dichloroethene	ug/m3	<0.34	<0.34			25
cis-1,3-Dichloropropene	ug/m3	<0.47	<0.47			25
Cyclohexane	ug/m3	<0.55	<0.55			25
Dibromochloromethane	ug/m3	<1.1	<1.1			25
Dichlorodifluoromethane	ug/m3	2.2	2.0	10		25
Dichlorotetrafluoroethane	ug/m3	<0.68	<0.68			25
Ethanol	ug/m3	360	365	1		25
Ethyl acetate	ug/m3	<0.29	<0.29			25
Ethylbenzene	ug/m3	<0.47	<0.47			25
Hexachloro-1,3-butadiene	ug/m3	<3.1	<3.1			25
m&p-Xylene	ug/m3	<1.1	<1.1			25
Methyl-tert-butyl ether	ug/m3	<1.0	<1.0			25
Methylene Chloride	ug/m3	2.9J	2.8J			25
n-Heptane	ug/m3	<0.59	<0.59			25

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 18883 MPS  
Pace Project No.: 10494361

SAMPLE DUPLICATE: 3438765

Parameter	Units	10494361001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.60J	0.57J		25	
Naphthalene	ug/m3	<2.0	<2.0		25	
o-Xylene	ug/m3	<0.53	<0.53		25	
Propylene	ug/m3	<0.22	<0.22		25	
Styrene	ug/m3	<0.53	<0.53		25	
Tetrachloroethene	ug/m3	<0.49	<0.49		25	
Tetrahydrofuran	ug/m3	<0.40	<0.40		25	
Toluene	ug/m3	6.0	5.8	5	25	
trans-1,2-Dichloroethene	ug/m3	<0.44	<0.44		25	
trans-1,3-Dichloropropene	ug/m3	<0.68	<0.68		25	
Trichloroethene	ug/m3	0.52J	<0.39		25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl acetate	ug/m3	<0.42	<0.42		25	
Vinyl chloride	ug/m3	<0.20	<0.20		25	

SAMPLE DUPLICATE: 3438766

Parameter	Units	10494361011 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.46	<0.46		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.46	<0.46		25	
1,1,2-Trichloroethane	ug/m3	<0.36	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.84	<0.84		25	
1,1-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,1-Dichloroethene	ug/m3	<0.41	<0.41		25	
1,2,4-Trichlorobenzene	ug/m3	<5.5	<5.5		25	
1,2,4-Trimethylbenzene	ug/m3	<0.67	<0.67		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.55	<0.55		25	
1,2-Dichlorobenzene	ug/m3	<0.74	<0.74		25	
1,2-Dichloroethane	ug/m3	<0.22	<0.22		25	
1,2-Dichloropropane	ug/m3	<0.34	<0.34		25	
1,3,5-Trimethylbenzene	ug/m3	<0.59	<0.59		25	
1,3-Butadiene	ug/m3	<0.19	<0.19		25	
1,3-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dichlorobenzene	ug/m3	<1.5	<1.5		25	
2-Butanone (MEK)	ug/m3	1.5J	1.3J		25	
2-Hexanone	ug/m3	<1.1	<1.1		25	
2-Propanol	ug/m3	9.8	9.7	1	25	
4-Ethyltoluene	ug/m3	<0.85	<0.85		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.77	<0.77		25	
Acetone	ug/m3	10.8	11.7	7	25	
Benzene	ug/m3	<0.23	<0.23		25	
Benzyl chloride	ug/m3	<1.8	<1.8		25	
Bromodichloromethane	ug/m3	<0.55	<0.55		25	
Bromoform	ug/m3	<2.1	<2.1		25	
Bromomethane	ug/m3	<0.34	<0.34		25	

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### QUALITY CONTROL DATA

Project: 18883 MPS

Pace Project No.: 10494361

SAMPLE DUPLICATE: 3438766

Parameter	Units	10494361011 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.33	<0.33		25	
Carbon tetrachloride	ug/m3	<0.64	<0.64		25	
Chlorobenzene	ug/m3	<0.41	<0.41		25	
Chloroethane	ug/m3	<0.39	<0.39		25	
Chloroform	ug/m3	<0.29	<0.29		25	
Chloromethane	ug/m3	0.81	0.70	16	25	
cis-1,2-Dichloroethene	ug/m3	<0.33	<0.33		25	
cis-1,3-Dichloropropene	ug/m3	<0.45	<0.45		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	
Dibromochloromethane	ug/m3	<1.1	<1.1		25	
Dichlorodifluoromethane	ug/m3	2.2	2.3	5	25	
Dichlorotetrafluoroethane	ug/m3	<0.65	<0.65		25	
Ethanol	ug/m3	6.7	6.1	9	25	
Ethyl acetate	ug/m3	<0.28	<0.28		25	
Ethylbenzene	ug/m3	<0.45	<0.45		25	
Hexachloro-1,3-butadiene	ug/m3	<2.9	<2.9		25	
m&p-Xylene	ug/m3	<1.0	<1.0		25	
Methyl-tert-butyl ether	ug/m3	<0.99	<0.99		25	
Methylene Chloride	ug/m3	<1.8	<1.8		25	
n-Heptane	ug/m3	<0.57	<0.57		25	
n-Hexane	ug/m3	<0.46	<0.46		25	
Naphthalene	ug/m3	<2.0	<2.0		25	
o-Xylene	ug/m3	<0.51	<0.51		25	
Propylene	ug/m3	0.76	0.75	1	25	
Styrene	ug/m3	<0.51	<0.51		25	
Tetrachloroethene	ug/m3	<0.47	<0.47		25	
Tetrahydrofuran	ug/m3	<0.39	<0.39		25	
Toluene	ug/m3	<0.52	<0.52		25	
trans-1,2-Dichloroethene	ug/m3	<0.42	<0.42		25	
trans-1,3-Dichloropropene	ug/m3	<0.66	<0.66		25	
Trichloroethene	ug/m3	<0.38	<0.38		25	
Trichlorofluoromethane	ug/m3	1.3J	1.5J		25	
Vinyl acetate	ug/m3	<0.40	<0.40		25	
Vinyl chloride	ug/m3	<0.19	<0.19		25	

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## QUALIFIERS

Project: 18883 MPS

Pace Project No.: 10494361

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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 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

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18883 MPS

Pace Project No.: 10494361

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10494361001	IA-1	TO-15	637787		
10494361002	IA-2	TO-15	637787		
10494361004	IA-4	TO-15	637787		
10494361005	IA-5	TO-15	637787		
10494361006	IA-6	TO-15	637787		
10494361007	IA-7	TO-15	637787		
10494361008	IA-8	TO-15	637787		
10494361009	IA-9	TO-15	637787		
10494361010	IA-10	TO-15	637787		
10494361011	AA-1	TO-15	637787		

### REPORT OF LABORATORY ANALYSIS

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



**Section A** Required Client Information:  
 Company: *The Sigma Group*  
 Address: *1300 W. Canal St.*  
 Email To: *Milwaukee, WI 53233*  
 Phone: *414-643-4200* Fax: *414-643-4210*  
 Requested Due Date/TAT:

**Section B** Required Project Information:  
 Report To: *Steve Meier*  
 Copy To:  
 Purchase Order No.:  
 Project Name: *MPS*  
 Project Number: *18883*

**Section C** Invoice Information:  
 Attention: *SAHC*  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager/Sales Rep.  
 Pace Profile #: *18109*

**Section D** Required Client Information  
**AIR SAMPLE ID**  
 Sample IDs MUST BE UNIQUE

Program  
 UST Superfund  Emissions  Clean Air Act  
 Voluntary Clean Up  Dry Clean  RCRA  Other  
 Reporting Units  
 Location of Sampling by State  
 Report Level II. III. IV. Other

Method:	Temp In °C	Received on Ice	Custody Sealed Cooler	Samples Intact
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 (other)				

ITEM #	Valid Media Codes MEDIA Tedlar Bag 1 Liter Summa Can 6 Liter Summa Can Low Volume Purif High Volume Purif Other	COLLECTED		Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Pace Lab ID
		DATE	TIME					
1		10/3/19	0839	10/3/19	1600	2011	001	
2		10/3/19	0843	10/3/19	1628	1796	002	
3		10/3/19	0849	10/3/19	1707	1800	003	
4		10/3/19	0854	10/3/19	1635	1789	004	
5		10/3/19	0901	10/3/19	1639	2060	005	
6		10/3/19	0907	10/3/19	1646	2060	006	
7		10/3/19	0911	10/3/19	1711	2075	007	
8		10/3/19	0917	10/3/19	1714	0112	008	
9		10/3/19	0924	10/3/19	1657	0078	009	
10		10/3/19	0928	10/3/19	1659	0370	010	
11		10/3/19	0931	10/3/19	1702	0317	011	
12								

RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i>	<i>SIGMA</i>	10/3	1742	<i>[Signature]</i>	<i>PAI</i>	10/4	1700	Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N

Comments:  
 IA-3 & IA-8 only went to -21" and -20" respectively after 8 hours.

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: JACKSON ROCK  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YY): 10/03/19

ORIGINAL



Document Name:  
**Air Sample Condition Upon Receipt**

Document No.:  
**F-MN-A-106-rev.18**

Document Revised: 31Jan2019  
Page 1 of 1  
Issuing Authority:

**WO#: 10494361**

PM: KNH Due Date: 10/11/19  
CLIENT: SIGMA ENV

**Air Sample Condition Upon Receipt** Client Name: The Sigma Group Project #: \_\_\_\_\_  
 Courier:  Fed Ex  UPS  USPS  Client  
 Pace  Speedee  Commercial  See Exception

Tracking Number: 1083 0240 6358/6371/6369

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

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_ Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): \_\_\_\_\_ Corrected Temp (°C): \_\_\_\_\_ Thermometer Used:  G87A9170600254  G87A9155100842

Temp should be above freezing to 6°C Correction Factor: \_\_\_\_\_ Date & Initials of Person Examining Contents: 10/11/19

Type of ice Received  Blue  Wet  None

**Comments:**

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>(Air Can)</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>(N)</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received: \_\_\_\_\_ Pressure Gauge #  10AIR34  10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
1A-1	1046	2011	-4	5	1A-9	3468	0078	-3.5	5
1A-2	1746	1796	-7	11	1A-10	3595	0370	-3	11
1A-3	2689	1800	-22	11	AA-1	2708	0317	-3	11
1A-4	2816	1789	-3	11					
1A-5	2803	0256	-4	11					
1A-6	3564	2060	-3	11					
1A-7	0805	1275	-2	11					
1A-8	2090	0117	-2	11					

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

Person Contacted: Stephen Meer Date/Time: 10/7/2019

Comments/Resolution: Sample 10494361003 canceled.

Project Manager Review: Kirsten Hofer Date: 10/7/2019

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)