



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

Eric J. Holcomb  
Governor

Bruno Pigott  
Commissioner

11/1/2018

██████████  
██████████ Paris Drive  
Franklin, IN 46131

Dear ██████████:

RE: Air Sampling Results

As you know, the Indiana Department of Environmental Management (IDEM) collected air samples at your home from October 16 to 17, 2018. An independent contract laboratory was hired by IDEM to test the samples for volatile organic compounds (VOCs) including the chemicals previously found by others, tetrachloroethylene (PCE) and trichloroethylene (TCE). We received the results of the tests and are pleased to report that neither PCE nor TCE were found in your indoor air, crawl space, or outdoor ambient air above the laboratory detection limits. While low levels of PCE were detected in the sample and the sample duplicate collected from your garage, the results are well below a level of concern. All other parameters analyzed were also reported below a level of concern.

Please find the attached laboratory results for your samples. If you have questions regarding the results, or any questions regarding IDEM's work in Franklin, please feel free to contact Kevin Davis, the IDEM Franklin Project Coordinator at 317/234-4814 or by email at [kdavis2@idem.in.gov](mailto:kdavis2@idem.in.gov).

Sincerely,

Bruce Oertel, Chief  
Remediation Services Branch  
Office of Land Quality

BO:kd  
Attachment

cc: Johnson County Health Department



October 29, 2018

David Harrison  
IDEM  
100 North Senate Avenue  
Indianapolis, IN 462042251

RE: Project: TO15  
Pace Project No.: 10452695

Dear David Harrison:

Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: TO15  
Pace Project No.: 10452695

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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

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 NwTPH 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 DW Certification #: 9952 C

West Virginia DEP Certification #: 382

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: TO15  
Pace Project No.: 10452695

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10452695001	LA378	Air	10/17/18 18:19	10/23/18 11:30
10452695002	LA378 cert 2318	Air	10/17/18 18:19	10/23/18 11:30
10452695003	LA379	Air	10/17/18 18:20	10/23/18 11:30
10452695004	LA379 cert 1479	Air	10/17/18 18:20	10/23/18 11:30
10452695005	LA380	Air	10/17/18 18:05	10/23/18 11:30
10452695006	LA380 cert 3456	Air	10/17/18 18:05	10/23/18 11:30
10452695007	LA381	Air	10/17/18 18:01	10/23/18 11:30
10452695008	LA381 cert 2806	Air	10/17/18 18:01	10/23/18 11:30
10452695009	LA382	Air	10/17/18 18:23	10/23/18 11:30
10452695010	LA382 cert 0859	Air	10/17/18 18:23	10/23/18 11:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: TO15  
Pace Project No.: 10452695

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10452695001	LA378	TO-15	AFV	61
10452695002	LA378 cert 2318	TO-15	AFV	61
10452695003	LA379	TO-15	AFV	61
10452695004	LA379 cert 1479	TO-15	AFV	61
10452695005	LA380	TO-15	AFV	61
10452695006	LA380 cert 3456	TO-15	MG2	61
10452695007	LA381	TO-15	AFV	61
10452695008	LA381 cert 2806	TO-15	NCK	61
10452695009	LA382	TO-15	AFV	61
10452695010	LA382 cert 0859	TO-15	MLS	61

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA378	Lab ID: 10452695001	Collected: 10/17/18 18:19	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	22.6	ug/m3	3.7	1.52		10/24/18 12:15	67-64-1	
Benzene	0.99	ug/m3	0.49	1.52		10/24/18 12:15	71-43-2	
Benzyl chloride	ND	ug/m3	4.0	1.52		10/24/18 12:15	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.52		10/24/18 12:15	75-27-4	
Bromoform	ND	ug/m3	8.0	1.52		10/24/18 12:15	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.52		10/24/18 12:15	74-83-9	
1,3-Butadiene	ND	ug/m3	0.68	1.52		10/24/18 12:15	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.6	1.52		10/24/18 12:15	78-93-3	
Carbon disulfide	ND	ug/m3	0.96	1.52		10/24/18 12:15	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	1.52		10/24/18 12:15	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.52		10/24/18 12:15	108-90-7	
Chloroethane	ND	ug/m3	0.81	1.52		10/24/18 12:15	75-00-3	
Chloroform	ND	ug/m3	0.75	1.52		10/24/18 12:15	67-66-3	
Chloromethane	ND	ug/m3	0.64	1.52		10/24/18 12:15	74-87-3	
Cyclohexane	ND	ug/m3	2.7	1.52		10/24/18 12:15	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.52		10/24/18 12:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.52		10/24/18 12:15	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.52		10/24/18 12:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.52		10/24/18 12:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.7	1.52		10/24/18 12:15	106-46-7	
Dichlorodifluoromethane	2.5	ug/m3	1.5	1.52		10/24/18 12:15	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.52		10/24/18 12:15	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.62	1.52		10/24/18 12:15	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 12:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 12:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		10/24/18 12:15	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.52		10/24/18 12:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.52		10/24/18 12:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.52		10/24/18 12:15	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.52		10/24/18 12:15	76-14-2	
Ethanol	63.4	ug/m3	2.9	1.52		10/24/18 12:15	64-17-5	
Ethyl acetate	1.9	ug/m3	1.1	1.52		10/24/18 12:15	141-78-6	
Ethylbenzene	2.7	ug/m3	1.3	1.52		10/24/18 12:15	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.8	1.52		10/24/18 12:15	622-96-8	
n-Heptane	2.1	ug/m3	1.3	1.52		10/24/18 12:15	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.2	1.52		10/24/18 12:15	87-68-3	
n-Hexane	5.3	ug/m3	1.1	1.52		10/24/18 12:15	110-54-3	
2-Hexanone	ND	ug/m3	6.3	1.52		10/24/18 12:15	591-78-6	
Methylene Chloride	8.9	ug/m3	5.4	1.52		10/24/18 12:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.3	1.52		10/24/18 12:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.6	1.52		10/24/18 12:15	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.52		10/24/18 12:15	91-20-3	
2-Propanol	5.2	ug/m3	3.8	1.52		10/24/18 12:15	67-63-0	
Propylene	ND	ug/m3	0.53	1.52		10/24/18 12:15	115-07-1	
Styrene	ND	ug/m3	1.3	1.52		10/24/18 12:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.52		10/24/18 12:15	79-34-5	
Tetrachloroethene	5.4	ug/m3	1.0	1.52		10/24/18 12:15	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA378		Lab ID: 10452695001	Collected: 10/17/18 18:19	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	0.91	1.52		10/24/18 12:15	109-99-9		
Toluene	<b>10.6</b>	ug/m3	1.2	1.52		10/24/18 12:15	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	11.5	1.52		10/24/18 12:15	120-82-1		
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.52		10/24/18 12:15	71-55-6		
1,1,2-Trichloroethane	ND	ug/m3	0.84	1.52		10/24/18 12:15	79-00-5		
Trichloroethene	ND	ug/m3	0.83	1.52		10/24/18 12:15	79-01-6		
Trichlorofluoromethane	<b>3.7</b>	ug/m3	1.7	1.52		10/24/18 12:15	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.52		10/24/18 12:15	76-13-1		
1,2,4-Trimethylbenzene	<b>5.6</b>	ug/m3	1.5	1.52		10/24/18 12:15	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.52		10/24/18 12:15	108-67-8		
Vinyl acetate	ND	ug/m3	1.1	1.52		10/24/18 12:15	108-05-4		
Vinyl chloride	ND	ug/m3	0.40	1.52		10/24/18 12:15	75-01-4		
m&p-Xylene	<b>11.4</b>	ug/m3	2.7	1.52		10/24/18 12:15	179601-23-1		
o-Xylene	<b>4.0</b>	ug/m3	1.3	1.52		10/24/18 12:15	95-47-6		

Sample: LA378 cert 2318		Lab ID: 10452695002	Collected: 10/17/18 18:19	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>Individual Can Certification</b>		Analytical Method: TO-15							
Acetone	ND	ug/m3	1.2	0.5		10/01/18 15:19	67-64-1		
Benzene	ND	ug/m3	0.16	0.5		10/01/18 15:19	71-43-2		
Benzyl chloride	ND	ug/m3	1.3	0.5		10/01/18 15:19	100-44-7		
Bromodichloromethane	ND	ug/m3	0.68	0.5		10/01/18 15:19	75-27-4		
Bromoform	ND	ug/m3	2.6	0.5		10/01/18 15:19	75-25-2		
Bromomethane	ND	ug/m3	0.39	0.5		10/01/18 15:19	74-83-9		
1,3-Butadiene	ND	ug/m3	0.22	0.5		10/01/18 15:19	106-99-0		
2-Butanone (MEK)	ND	ug/m3	1.5	0.5		10/01/18 15:19	78-93-3		
Carbon disulfide	ND	ug/m3	0.32	0.5		10/01/18 15:19	75-15-0		
Carbon tetrachloride	ND	ug/m3	0.64	0.5		10/01/18 15:19	56-23-5		
Chlorobenzene	ND	ug/m3	0.47	0.5		10/01/18 15:19	108-90-7		
Chloroethane	ND	ug/m3	0.27	0.5		10/01/18 15:19	75-00-3		
Chloroform	ND	ug/m3	0.25	0.5		10/01/18 15:19	67-66-3		
Chloromethane	ND	ug/m3	0.21	0.5		10/01/18 15:19	74-87-3		
Cyclohexane	ND	ug/m3	0.88	0.5		10/01/18 15:19	110-82-7		
Dibromochloromethane	ND	ug/m3	0.86	0.5		10/01/18 15:19	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	0.39	0.5		10/01/18 15:19	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/01/18 15:19	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/01/18 15:19	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.5		10/01/18 15:19	106-46-7		
Dichlorodifluoromethane	ND	ug/m3	0.50	0.5		10/01/18 15:19	75-71-8		
1,1-Dichloroethane	ND	ug/m3	0.41	0.5		10/01/18 15:19	75-34-3		
1,2-Dichloroethane	ND	ug/m3	0.21	0.5		10/01/18 15:19	107-06-2		
1,1-Dichloroethene	ND	ug/m3	0.40	0.5		10/01/18 15:19	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/01/18 15:19	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/01/18 15:19	156-60-5		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA378 cert 2318	Lab ID: 10452695002	Collected: 10/17/18 18:19	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
1,2-Dichloropropane	ND	ug/m3	0.47	0.5		10/01/18 15:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/01/18 15:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/01/18 15:19	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	0.71	0.5		10/01/18 15:19	76-14-2	
Ethanol	ND	ug/m3	0.96	0.5		10/01/18 15:19	64-17-5	
Ethyl acetate	ND	ug/m3	0.37	0.5		10/01/18 15:19	141-78-6	
Ethylbenzene	ND	ug/m3	0.44	0.5		10/01/18 15:19	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.2	0.5		10/01/18 15:19	622-96-8	
n-Heptane	ND	ug/m3	0.42	0.5		10/01/18 15:19	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.5		10/01/18 15:19	87-68-3	
n-Hexane	ND	ug/m3	0.36	0.5		10/01/18 15:19	110-54-3	
2-Hexanone	ND	ug/m3	2.1	0.5		10/01/18 15:19	591-78-6	
Methylene Chloride	ND	ug/m3	4.4	0.5		10/01/18 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.1	0.5		10/01/18 15:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.8	0.5		10/01/18 15:19	1634-04-4	
Naphthalene	ND	ug/m3	1.3	0.5		10/01/18 15:19	91-20-3	
2-Propanol	ND	ug/m3	1.2	0.5		10/01/18 15:19	67-63-0	
Propylene	ND	ug/m3	0.18	0.5		10/01/18 15:19	115-07-1	
Styrene	ND	ug/m3	0.43	0.5		10/01/18 15:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.35	0.5		10/01/18 15:19	79-34-5	
Tetrachloroethene	ND	ug/m3	0.34	0.5		10/01/18 15:19	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.30	0.5		10/01/18 15:19	109-99-9	
Toluene	ND	ug/m3	0.38	0.5		10/01/18 15:19	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.5		10/01/18 15:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	0.56	0.5		10/01/18 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.28	0.5		10/01/18 15:19	79-00-5	
Trichloroethene	ND	ug/m3	0.27	0.5		10/01/18 15:19	79-01-6	
Trichlorofluoromethane	ND	ug/m3	0.57	0.5		10/01/18 15:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	0.78	0.5		10/01/18 15:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/01/18 15:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/01/18 15:19	108-67-8	
Vinyl acetate	ND	ug/m3	0.36	0.5		10/01/18 15:19	108-05-4	
Vinyl chloride	ND	ug/m3	0.13	0.5		10/01/18 15:19	75-01-4	
m&p-Xylene	ND	ug/m3	0.88	0.5		10/01/18 15:19	179601-23-1	
o-Xylene	ND	ug/m3	0.44	0.5		10/01/18 15:19	95-47-6	

Sample: LA379	Lab ID: 10452695003	Collected: 10/17/18 18:20	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	17.2	ug/m3	3.6	1.49		10/24/18 13:10	67-64-1	
Benzene	0.98	ug/m3	0.48	1.49		10/24/18 13:10	71-43-2	
Benzyl chloride	ND	ug/m3	3.9	1.49		10/24/18 13:10	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.49		10/24/18 13:10	75-27-4	
Bromoform	ND	ug/m3	7.8	1.49		10/24/18 13:10	75-25-2	

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## ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA379	Lab ID: 10452695003	Collected: 10/17/18 18:20	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Bromomethane	ND	ug/m3	1.2	1.49		10/24/18 13:10	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	1.49		10/24/18 13:10	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.5	1.49		10/24/18 13:10	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	1.49		10/24/18 13:10	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	1.49		10/24/18 13:10	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.49		10/24/18 13:10	108-90-7	
Chloroethane	ND	ug/m3	0.80	1.49		10/24/18 13:10	75-00-3	
Chloroform	ND	ug/m3	0.74	1.49		10/24/18 13:10	67-66-3	
Chloromethane	ND	ug/m3	0.63	1.49		10/24/18 13:10	74-87-3	
Cyclohexane	ND	ug/m3	2.6	1.49		10/24/18 13:10	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.49		10/24/18 13:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.49		10/24/18 13:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.49		10/24/18 13:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.49		10/24/18 13:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.6	1.49		10/24/18 13:10	106-46-7	
Dichlorodifluoromethane	<b>2.4</b>	ug/m3	1.5	1.49		10/24/18 13:10	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		10/24/18 13:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.49		10/24/18 13:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		10/24/18 13:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		10/24/18 13:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		10/24/18 13:10	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.49		10/24/18 13:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.49		10/24/18 13:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.49		10/24/18 13:10	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.49		10/24/18 13:10	76-14-2	
Ethanol	<b>57.7</b>	ug/m3	2.9	1.49		10/24/18 13:10	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.49		10/24/18 13:10	141-78-6	
Ethylbenzene	<b>2.6</b>	ug/m3	1.3	1.49		10/24/18 13:10	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.49		10/24/18 13:10	622-96-8	
n-Heptane	<b>2.0</b>	ug/m3	1.2	1.49		10/24/18 13:10	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.1	1.49		10/24/18 13:10	87-68-3	
n-Hexane	<b>5.2</b>	ug/m3	1.1	1.49		10/24/18 13:10	110-54-3	
2-Hexanone	ND	ug/m3	6.2	1.49		10/24/18 13:10	591-78-6	
Methylene Chloride	<b>8.3</b>	ug/m3	5.3	1.49		10/24/18 13:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	1.49		10/24/18 13:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.5	1.49		10/24/18 13:10	1634-04-4	
Naphthalene	<b>39.1</b>	ug/m3	4.0	1.49		10/24/18 13:10	91-20-3	
2-Propanol	<b>4.7</b>	ug/m3	3.7	1.49		10/24/18 13:10	67-63-0	
Propylene	ND	ug/m3	0.52	1.49		10/24/18 13:10	115-07-1	
Styrene	ND	ug/m3	1.3	1.49		10/24/18 13:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.49		10/24/18 13:10	79-34-5	
Tetrachloroethene	<b>5.0</b>	ug/m3	1.0	1.49		10/24/18 13:10	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.89	1.49		10/24/18 13:10	109-99-9	
Toluene	<b>10.7</b>	ug/m3	1.1	1.49		10/24/18 13:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.2	1.49		10/24/18 13:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.49		10/24/18 13:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.83	1.49		10/24/18 13:10	79-00-5	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA379		Lab ID: 10452695003	Collected: 10/17/18 18:20	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Trichloroethene	ND	ug/m3	0.81	1.49		10/24/18 13:10	79-01-6	
Trichlorofluoromethane	3.4	ug/m3	1.7	1.49		10/24/18 13:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.49		10/24/18 13:10	76-13-1	
1,2,4-Trimethylbenzene	5.5	ug/m3	1.5	1.49		10/24/18 13:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.49		10/24/18 13:10	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.49		10/24/18 13:10	108-05-4	
Vinyl chloride	ND	ug/m3	0.39	1.49		10/24/18 13:10	75-01-4	
m&p-Xylene	11.5	ug/m3	2.6	1.49		10/24/18 13:10	179601-23-1	
o-Xylene	4.2	ug/m3	1.3	1.49		10/24/18 13:10	95-47-6	

Sample: LA379 cert 1479		Lab ID: 10452695004	Collected: 10/17/18 18:20	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Acetone	ND	ug/m3	1.2	0.5		10/03/18 11:28	67-64-1	
Benzene	ND	ug/m3	0.16	0.5		10/03/18 11:28	71-43-2	
Benzyl chloride	ND	ug/m3	1.3	0.5		10/03/18 11:28	100-44-7	
Bromodichloromethane	ND	ug/m3	0.68	0.5		10/03/18 11:28	75-27-4	
Bromoform	ND	ug/m3	2.6	0.5		10/03/18 11:28	75-25-2	
Bromomethane	ND	ug/m3	0.39	0.5		10/03/18 11:28	74-83-9	
1,3-Butadiene	ND	ug/m3	0.22	0.5		10/03/18 11:28	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.5	0.5		10/03/18 11:28	78-93-3	
Carbon disulfide	ND	ug/m3	0.32	0.5		10/03/18 11:28	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.5		10/03/18 11:28	56-23-5	
Chlorobenzene	ND	ug/m3	0.47	0.5		10/03/18 11:28	108-90-7	
Chloroethane	ND	ug/m3	0.27	0.5		10/03/18 11:28	75-00-3	
Chloroform	ND	ug/m3	0.25	0.5		10/03/18 11:28	67-66-3	
Chloromethane	ND	ug/m3	0.21	0.5		10/03/18 11:28	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.5		10/03/18 11:28	110-82-7	
Dibromochloromethane	ND	ug/m3	0.86	0.5		10/03/18 11:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	0.39	0.5		10/03/18 11:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/03/18 11:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/03/18 11:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.5		10/03/18 11:28	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	0.50	0.5		10/03/18 11:28	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.41	0.5		10/03/18 11:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.21	0.5		10/03/18 11:28	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 11:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 11:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/03/18 11:28	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.47	0.5		10/03/18 11:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/03/18 11:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/03/18 11:28	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	0.71	0.5		10/03/18 11:28	76-14-2	
Ethanol	ND	ug/m3	0.96	0.5		10/03/18 11:28	64-17-5	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA379 cert 1479		Lab ID: 10452695004	Collected: 10/17/18 18:20	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Ethyl acetate	ND	ug/m3	0.37	0.5		10/03/18 11:28	141-78-6	
Ethylbenzene	ND	ug/m3	0.44	0.5		10/03/18 11:28	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.2	0.5		10/03/18 11:28	622-96-8	
n-Heptane	ND	ug/m3	0.42	0.5		10/03/18 11:28	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.5		10/03/18 11:28	87-68-3	
n-Hexane	ND	ug/m3	0.36	0.5		10/03/18 11:28	110-54-3	
2-Hexanone	ND	ug/m3	2.1	0.5		10/03/18 11:28	591-78-6	
Methylene Chloride	ND	ug/m3	1.8	0.5		10/03/18 11:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.1	0.5		10/03/18 11:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.8	0.5		10/03/18 11:28	1634-04-4	
Naphthalene	ND	ug/m3	1.3	0.5		10/03/18 11:28	91-20-3	
2-Propanol	ND	ug/m3	1.2	0.5		10/03/18 11:28	67-63-0	
Propylene	ND	ug/m3	0.18	0.5		10/03/18 11:28	115-07-1	
Styrene	ND	ug/m3	0.43	0.5		10/03/18 11:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.35	0.5		10/03/18 11:28	79-34-5	
Tetrachloroethene	ND	ug/m3	0.69	0.5		10/03/18 11:28	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.30	0.5		10/03/18 11:28	109-99-9	
Toluene	ND	ug/m3	0.38	0.5		10/03/18 11:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.5		10/03/18 11:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	0.56	0.5		10/03/18 11:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.28	0.5		10/03/18 11:28	79-00-5	
Trichloroethene	ND	ug/m3	0.27	0.5		10/03/18 11:28	79-01-6	
Trichlorofluoromethane	ND	ug/m3	0.57	0.5		10/03/18 11:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	0.78	0.5		10/03/18 11:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/03/18 11:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/03/18 11:28	108-67-8	
Vinyl acetate	ND	ug/m3	0.36	0.5		10/03/18 11:28	108-05-4	
Vinyl chloride	ND	ug/m3	0.13	0.5		10/03/18 11:28	75-01-4	
m&p-Xylene	ND	ug/m3	0.88	0.5		10/03/18 11:28	179601-23-1	
o-Xylene	ND	ug/m3	0.44	0.5		10/03/18 11:28	95-47-6	

Sample: LA380		Lab ID: 10452695005	Collected: 10/17/18 18:05	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	<b>25.5</b>	ug/m3	3.8	1.58		10/24/18 14:05	67-64-1	
Benzene	ND	ug/m3	0.51	1.58		10/24/18 14:05	71-43-2	
Benzyl chloride	ND	ug/m3	4.2	1.58		10/24/18 14:05	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.58		10/24/18 14:05	75-27-4	
Bromoform	ND	ug/m3	8.3	1.58		10/24/18 14:05	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.58		10/24/18 14:05	74-83-9	
1,3-Butadiene	ND	ug/m3	0.71	1.58		10/24/18 14:05	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.7	1.58		10/24/18 14:05	78-93-3	
Carbon disulfide	ND	ug/m3	1.0	1.58		10/24/18 14:05	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.0	1.58		10/24/18 14:05	56-23-5	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA380	Lab ID: 10452695005	Collected: 10/17/18 18:05	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Chlorobenzene	ND	ug/m3	1.5	1.58		10/24/18 14:05	108-90-7	
Chloroethane	ND	ug/m3	0.85	1.58		10/24/18 14:05	75-00-3	
Chloroform	ND	ug/m3	0.78	1.58		10/24/18 14:05	67-66-3	
Chloromethane	<b>0.72</b>	ug/m3	0.66	1.58		10/24/18 14:05	74-87-3	
Cyclohexane	ND	ug/m3	2.8	1.58		10/24/18 14:05	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.58		10/24/18 14:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.58		10/24/18 14:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	1.58		10/24/18 14:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	1.58		10/24/18 14:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.8	1.58		10/24/18 14:05	106-46-7	
Dichlorodifluoromethane	<b>2.6</b>	ug/m3	1.6	1.58		10/24/18 14:05	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.58		10/24/18 14:05	75-34-3	
1,2-Dichloroethane	<b>1.9</b>	ug/m3	0.65	1.58		10/24/18 14:05	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.58		10/24/18 14:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		10/24/18 14:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		10/24/18 14:05	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.58		10/24/18 14:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	1.58		10/24/18 14:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	1.58		10/24/18 14:05	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.58		10/24/18 14:05	76-14-2	
Ethanol	<b>192</b>	ug/m3	3.0	1.58		10/24/18 14:05	64-17-5	
Ethyl acetate	<b>2.9</b>	ug/m3	1.2	1.58		10/24/18 14:05	141-78-6	
Ethylbenzene	ND	ug/m3	1.4	1.58		10/24/18 14:05	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.0	1.58		10/24/18 14:05	622-96-8	
n-Heptane	ND	ug/m3	1.3	1.58		10/24/18 14:05	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.6	1.58		10/24/18 14:05	87-68-3	
n-Hexane	<b>1.7</b>	ug/m3	1.1	1.58		10/24/18 14:05	110-54-3	
2-Hexanone	ND	ug/m3	6.6	1.58		10/24/18 14:05	591-78-6	
Methylene Chloride	<b>8.3</b>	ug/m3	5.6	1.58		10/24/18 14:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.6	1.58		10/24/18 14:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.8	1.58		10/24/18 14:05	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.58		10/24/18 14:05	91-20-3	
2-Propanol	<b>6.6</b>	ug/m3	4.0	1.58		10/24/18 14:05	67-63-0	
Propylene	ND	ug/m3	0.55	1.58		10/24/18 14:05	115-07-1	
Styrene	ND	ug/m3	1.4	1.58		10/24/18 14:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.58		10/24/18 14:05	79-34-5	
Tetrachloroethene	ND	ug/m3	1.1	1.58		10/24/18 14:05	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.95	1.58		10/24/18 14:05	109-99-9	
Toluene	<b>3.1</b>	ug/m3	1.2	1.58		10/24/18 14:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.9	1.58		10/24/18 14:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.58		10/24/18 14:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.88	1.58		10/24/18 14:05	79-00-5	
Trichloroethene	ND	ug/m3	0.86	1.58		10/24/18 14:05	79-01-6	
Trichlorofluoromethane	<b>4.4</b>	ug/m3	1.8	1.58		10/24/18 14:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.58		10/24/18 14:05	76-13-1	
1,2,4-Trimethylbenzene	<b>1.8</b>	ug/m3	1.6	1.58		10/24/18 14:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.6	1.58		10/24/18 14:05	108-67-8	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA380		Lab ID: 10452695005	Collected: 10/17/18 18:05	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Vinyl acetate	ND	ug/m3	1.1	1.58		10/24/18 14:05	108-05-4	
Vinyl chloride	ND	ug/m3	0.41	1.58		10/24/18 14:05	75-01-4	
m&p-Xylene	3.1	ug/m3	2.8	1.58		10/24/18 14:05	179601-23-1	
o-Xylene	ND	ug/m3	1.4	1.58		10/24/18 14:05	95-47-6	

Sample: LA380 cert 3456		Lab ID: 10452695006	Collected: 10/17/18 18:05	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Acetone	ND	ug/m3	6.0	1		09/26/18 10:50	67-64-1	
Benzene	ND	ug/m3	0.32	1		09/26/18 10:50	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	1		09/26/18 10:50	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	1		09/26/18 10:50	75-27-4	
Bromoform	ND	ug/m3	5.2	1		09/26/18 10:50	75-25-2	
Bromomethane	ND	ug/m3	0.79	1		09/26/18 10:50	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	1		09/26/18 10:50	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1		09/26/18 10:50	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	1		09/26/18 10:50	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.3	1		09/26/18 10:50	56-23-5	
Chlorobenzene	ND	ug/m3	2.3	1		09/26/18 10:50	108-90-7	
Chloroethane	ND	ug/m3	0.54	1		09/26/18 10:50	75-00-3	
Chloroform	ND	ug/m3	0.50	1		09/26/18 10:50	67-66-3	
Chloromethane	ND	ug/m3	0.42	1		09/26/18 10:50	74-87-3	
Cyclohexane	ND	ug/m3	1.8	1		09/26/18 10:50	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	1		09/26/18 10:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	3.9	1		09/26/18 10:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.1	1		09/26/18 10:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.1	1		09/26/18 10:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.1	1		09/26/18 10:50	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	1		09/26/18 10:50	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	1		09/26/18 10:50	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		09/26/18 10:50	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	1		09/26/18 10:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		09/26/18 10:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		09/26/18 10:50	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	1		09/26/18 10:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	1		09/26/18 10:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.3	1		09/26/18 10:50	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	1		09/26/18 10:50	76-14-2	
Ethanol	ND	ug/m3	1.9	1		09/26/18 10:50	64-17-5	
Ethyl acetate	ND	ug/m3	1.8	1		09/26/18 10:50	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	1		09/26/18 10:50	100-41-4	
4-Ethyltoluene	ND	ug/m3	2.5	1		09/26/18 10:50	622-96-8	
n-Heptane	ND	ug/m3	0.83	1		09/26/18 10:50	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	1		09/26/18 10:50	87-68-3	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA380 cert 3456		Lab ID: 10452695006	Collected: 10/17/18 18:05	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
n-Hexane	ND	ug/m3	1.8	1		09/26/18 10:50	110-54-3	
2-Hexanone	ND	ug/m3	4.2	1		09/26/18 10:50	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1		09/26/18 10:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	1		09/26/18 10:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1		09/26/18 10:50	1634-04-4	
Naphthalene	ND	ug/m3	2.7	1		09/26/18 10:50	91-20-3	
2-Propanol	ND	ug/m3	6.2	1		09/26/18 10:50	67-63-0	
Propylene	ND	ug/m3	0.35	1		09/26/18 10:50	115-07-1	
Styrene	ND	ug/m3	2.2	1		09/26/18 10:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	1		09/26/18 10:50	79-34-5	
Tetrachloroethene	ND	ug/m3	0.69	1		09/26/18 10:50	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.60	1		09/26/18 10:50	109-99-9	
Toluene	ND	ug/m3	0.77	1		09/26/18 10:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	1		09/26/18 10:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		09/26/18 10:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.56	1		09/26/18 10:50	79-00-5	
Trichloroethene	ND	ug/m3	0.55	1		09/26/18 10:50	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	1		09/26/18 10:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	1		09/26/18 10:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	1		09/26/18 10:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	1		09/26/18 10:50	108-67-8	
Vinyl acetate	ND	ug/m3	1.8	1		09/26/18 10:50	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	1		09/26/18 10:50	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	1		09/26/18 10:50	179601-23-1	
o-Xylene	ND	ug/m3	0.88	1		09/26/18 10:50	95-47-6	

Sample: LA381		Lab ID: 10452695007	Collected: 10/17/18 18:01	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	16.2	ug/m3	3.6	1.49		10/24/18 15:01	67-64-1	
Benzene	ND	ug/m3	0.48	1.49		10/24/18 15:01	71-43-2	
Benzyl chloride	ND	ug/m3	3.9	1.49		10/24/18 15:01	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.49		10/24/18 15:01	75-27-4	
Bromoform	ND	ug/m3	7.8	1.49		10/24/18 15:01	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.49		10/24/18 15:01	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	1.49		10/24/18 15:01	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.5	1.49		10/24/18 15:01	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	1.49		10/24/18 15:01	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	1.49		10/24/18 15:01	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.49		10/24/18 15:01	108-90-7	
Chloroethane	ND	ug/m3	0.80	1.49		10/24/18 15:01	75-00-3	
Chloroform	ND	ug/m3	0.74	1.49		10/24/18 15:01	67-66-3	
Chloromethane	ND	ug/m3	0.63	1.49		10/24/18 15:01	74-87-3	
Cyclohexane	ND	ug/m3	2.6	1.49		10/24/18 15:01	110-82-7	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA381	Lab ID: 10452695007	Collected: 10/17/18 18:01	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Dibromochloromethane	ND	ug/m3	2.6	1.49		10/24/18 15:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.49		10/24/18 15:01	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.49		10/24/18 15:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.49		10/24/18 15:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.6	1.49		10/24/18 15:01	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	1.49		10/24/18 15:01	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		10/24/18 15:01	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.49		10/24/18 15:01	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		10/24/18 15:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		10/24/18 15:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		10/24/18 15:01	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.49		10/24/18 15:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.49		10/24/18 15:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.49		10/24/18 15:01	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.49		10/24/18 15:01	76-14-2	
Ethanol	<b>21.8</b>	ug/m3	2.9	1.49		10/24/18 15:01	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.49		10/24/18 15:01	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	1.49		10/24/18 15:01	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.49		10/24/18 15:01	622-96-8	
n-Heptane	ND	ug/m3	1.2	1.49		10/24/18 15:01	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.1	1.49		10/24/18 15:01	87-68-3	
n-Hexane	ND	ug/m3	1.1	1.49		10/24/18 15:01	110-54-3	
2-Hexanone	ND	ug/m3	6.2	1.49		10/24/18 15:01	591-78-6	
Methylene Chloride	<b>6.9</b>	ug/m3	5.3	1.49		10/24/18 15:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	1.49		10/24/18 15:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.5	1.49		10/24/18 15:01	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.49		10/24/18 15:01	91-20-3	
2-Propanol	<b>4.2</b>	ug/m3	3.7	1.49		10/24/18 15:01	67-63-0	
Propylene	ND	ug/m3	0.52	1.49		10/24/18 15:01	115-07-1	
Styrene	ND	ug/m3	1.3	1.49		10/24/18 15:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.49		10/24/18 15:01	79-34-5	
Tetrachloroethene	ND	ug/m3	1.0	1.49		10/24/18 15:01	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.89	1.49		10/24/18 15:01	109-99-9	
Toluene	ND	ug/m3	1.1	1.49		10/24/18 15:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.2	1.49		10/24/18 15:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.49		10/24/18 15:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.83	1.49		10/24/18 15:01	79-00-5	
Trichloroethene	ND	ug/m3	0.81	1.49		10/24/18 15:01	79-01-6	
Trichlorofluoromethane	<b>3.0</b>	ug/m3	1.7	1.49		10/24/18 15:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.49		10/24/18 15:01	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.49		10/24/18 15:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.49		10/24/18 15:01	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.49		10/24/18 15:01	108-05-4	
Vinyl chloride	ND	ug/m3	0.39	1.49		10/24/18 15:01	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.49		10/24/18 15:01	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.49		10/24/18 15:01	95-47-6	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA381 cert 2806	Lab ID: 10452695008	Collected: 10/17/18 18:01	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Acetone	ND	ug/m3	2.4	1		10/02/18 10:37	67-64-1	
Benzene	ND	ug/m3	0.32	1		10/02/18 10:37	71-43-2	
Benzyl chloride	ND	ug/m3	2.6	1		10/02/18 10:37	100-44-7	
Bromodichloromethane	ND	ug/m3	1.4	1		10/02/18 10:37	75-27-4	
Bromoform	ND	ug/m3	5.2	1		10/02/18 10:37	75-25-2	
Bromomethane	ND	ug/m3	0.79	1		10/02/18 10:37	74-83-9	
1,3-Butadiene	ND	ug/m3	0.45	1		10/02/18 10:37	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3.0	1		10/02/18 10:37	78-93-3	
Carbon disulfide	ND	ug/m3	0.63	1		10/02/18 10:37	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.3	1		10/02/18 10:37	56-23-5	
Chlorobenzene	ND	ug/m3	0.94	1		10/02/18 10:37	108-90-7	
Chloroethane	ND	ug/m3	0.54	1		10/02/18 10:37	75-00-3	
Chloroform	ND	ug/m3	0.50	1		10/02/18 10:37	67-66-3	
Chloromethane	ND	ug/m3	0.42	1		10/02/18 10:37	74-87-3	
Cyclohexane	ND	ug/m3	1.8	1		10/02/18 10:37	110-82-7	
Dibromochloromethane	ND	ug/m3	1.7	1		10/02/18 10:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	0.78	1		10/02/18 10:37	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.2	1		10/02/18 10:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.2	1		10/02/18 10:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.1	1		10/02/18 10:37	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.0	1		10/02/18 10:37	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.82	1		10/02/18 10:37	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		10/02/18 10:37	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.81	1		10/02/18 10:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		10/02/18 10:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		10/02/18 10:37	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.94	1		10/02/18 10:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.92	1		10/02/18 10:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.92	1		10/02/18 10:37	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1.4	1		10/02/18 10:37	76-14-2	
Ethanol	ND	ug/m3	1.9	1		10/02/18 10:37	64-17-5	
Ethyl acetate	ND	ug/m3	0.73	1		10/02/18 10:37	141-78-6	
Ethylbenzene	ND	ug/m3	0.88	1		10/02/18 10:37	100-41-4	
4-Ethyltoluene	ND	ug/m3	2.5	1		10/02/18 10:37	622-96-8	
n-Heptane	ND	ug/m3	0.83	1		10/02/18 10:37	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.4	1		10/02/18 10:37	87-68-3	
n-Hexane	ND	ug/m3	0.72	1		10/02/18 10:37	110-54-3	
2-Hexanone	ND	ug/m3	4.2	1		10/02/18 10:37	591-78-6	
Methylene Chloride	ND	ug/m3	3.5	1		10/02/18 10:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.2	1		10/02/18 10:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	3.7	1		10/02/18 10:37	1634-04-4	
Naphthalene	ND	ug/m3	2.7	1		10/02/18 10:37	91-20-3	
2-Propanol	ND	ug/m3	2.5	1		10/02/18 10:37	67-63-0	
Propylene	ND	ug/m3	0.35	1		10/02/18 10:37	115-07-1	
Styrene	ND	ug/m3	0.87	1		10/02/18 10:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.70	1		10/02/18 10:37	79-34-5	
Tetrachloroethene	ND	ug/m3	0.69	1		10/02/18 10:37	127-18-4	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA381 cert 2806		Lab ID: 10452695008	Collected: 10/17/18 18:01	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	0.60	1		10/02/18 10:37	109-99-9	
Toluene	ND	ug/m3	0.77	1		10/02/18 10:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	1		10/02/18 10:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		10/02/18 10:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.56	1		10/02/18 10:37	79-00-5	
Trichloroethene	ND	ug/m3	0.55	1		10/02/18 10:37	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.1	1		10/02/18 10:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.6	1		10/02/18 10:37	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.0	1		10/02/18 10:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.0	1		10/02/18 10:37	108-67-8	
Vinyl acetate	ND	ug/m3	0.72	1		10/02/18 10:37	108-05-4	
Vinyl chloride	ND	ug/m3	0.26	1		10/02/18 10:37	75-01-4	
m&p-Xylene	ND	ug/m3	1.8	1		10/02/18 10:37	179601-23-1	
o-Xylene	ND	ug/m3	0.88	1		10/02/18 10:37	95-47-6	

Sample: LA382		Lab ID: 10452695009	Collected: 10/17/18 18:23	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
Acetone	27.6	ug/m3	3.6	1.49		10/24/18 14:33	67-64-1	
Benzene	ND	ug/m3	0.48	1.49		10/24/18 14:33	71-43-2	
Benzyl chloride	ND	ug/m3	3.9	1.49		10/24/18 14:33	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.49		10/24/18 14:33	75-27-4	
Bromoform	ND	ug/m3	7.8	1.49		10/24/18 14:33	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.49		10/24/18 14:33	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	1.49		10/24/18 14:33	106-99-0	
2-Butanone (MEK)	ND	ug/m3	4.5	1.49		10/24/18 14:33	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	1.49		10/24/18 14:33	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	1.49		10/24/18 14:33	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.49		10/24/18 14:33	108-90-7	
Chloroethane	ND	ug/m3	0.80	1.49		10/24/18 14:33	75-00-3	
Chloroform	ND	ug/m3	0.74	1.49		10/24/18 14:33	67-66-3	
Chloromethane	ND	ug/m3	0.63	1.49		10/24/18 14:33	74-87-3	
Cyclohexane	ND	ug/m3	2.6	1.49		10/24/18 14:33	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.49		10/24/18 14:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.2	1.49		10/24/18 14:33	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.49		10/24/18 14:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.49		10/24/18 14:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.6	1.49		10/24/18 14:33	106-46-7	
Dichlorodifluoromethane	2.4	ug/m3	1.5	1.49		10/24/18 14:33	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		10/24/18 14:33	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.49		10/24/18 14:33	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		10/24/18 14:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		10/24/18 14:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		10/24/18 14:33	156-60-5	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA382		Lab ID: 10452695009	Collected: 10/17/18 18:23	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15						
1,2-Dichloropropane	ND	ug/m3	1.4	1.49		10/24/18 14:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.49		10/24/18 14:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.49		10/24/18 14:33	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.49		10/24/18 14:33	76-14-2	
Ethanol	12.9	ug/m3	2.9	1.49		10/24/18 14:33	64-17-5	
Ethyl acetate	8.1	ug/m3	1.1	1.49		10/24/18 14:33	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	1.49		10/24/18 14:33	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.49		10/24/18 14:33	622-96-8	
n-Heptane	ND	ug/m3	1.2	1.49		10/24/18 14:33	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.1	1.49		10/24/18 14:33	87-68-3	
n-Hexane	1.7	ug/m3	1.1	1.49		10/24/18 14:33	110-54-3	
2-Hexanone	ND	ug/m3	6.2	1.49		10/24/18 14:33	591-78-6	
Methylene Chloride	23.4	ug/m3	5.3	1.49		10/24/18 14:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	1.49		10/24/18 14:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.5	1.49		10/24/18 14:33	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.49		10/24/18 14:33	91-20-3	
2-Propanol	5.2	ug/m3	3.7	1.49		10/24/18 14:33	67-63-0	
Propylene	ND	ug/m3	0.52	1.49		10/24/18 14:33	115-07-1	
Styrene	ND	ug/m3	1.3	1.49		10/24/18 14:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.49		10/24/18 14:33	79-34-5	
Tetrachloroethene	ND	ug/m3	1.0	1.49		10/24/18 14:33	127-18-4	
Tetrahydrofuran	3.3	ug/m3	0.89	1.49		10/24/18 14:33	109-99-9	
Toluene	19.2	ug/m3	1.1	1.49		10/24/18 14:33	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.2	1.49		10/24/18 14:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.49		10/24/18 14:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.83	1.49		10/24/18 14:33	79-00-5	
Trichloroethene	ND	ug/m3	0.81	1.49		10/24/18 14:33	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.7	1.49		10/24/18 14:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.49		10/24/18 14:33	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.49		10/24/18 14:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.49		10/24/18 14:33	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.49		10/24/18 14:33	108-05-4	
Vinyl chloride	ND	ug/m3	0.39	1.49		10/24/18 14:33	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.49		10/24/18 14:33	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.49		10/24/18 14:33	95-47-6	

Sample: LA382 cert 0859		Lab ID: 10452695010	Collected: 10/17/18 18:23	Received: 10/23/18 11:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Acetone	ND	ug/m3	1.2	0.5		10/02/18 12:18	67-64-1	
Benzene	ND	ug/m3	0.16	0.5		10/02/18 12:18	71-43-2	
Benzyl chloride	ND	ug/m3	1.3	0.5		10/02/18 12:18	100-44-7	
Bromodichloromethane	ND	ug/m3	0.68	0.5		10/02/18 12:18	75-27-4	
Bromoform	ND	ug/m3	2.6	0.5		10/02/18 12:18	75-25-2	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA382 cert 0859	Lab ID: 10452695010	Collected: 10/17/18 18:23	Received: 10/23/18 11:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>		Analytical Method: TO-15						
Bromomethane	ND	ug/m3	0.39	0.5		10/02/18 12:18	74-83-9	
1,3-Butadiene	ND	ug/m3	0.22	0.5		10/02/18 12:18	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.5	0.5		10/02/18 12:18	78-93-3	
Carbon disulfide	ND	ug/m3	0.32	0.5		10/02/18 12:18	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.64	0.5		10/02/18 12:18	56-23-5	
Chlorobenzene	ND	ug/m3	0.47	0.5		10/02/18 12:18	108-90-7	
Chloroethane	ND	ug/m3	0.27	0.5		10/02/18 12:18	75-00-3	
Chloroform	ND	ug/m3	0.25	0.5		10/02/18 12:18	67-66-3	
Chloromethane	ND	ug/m3	0.21	0.5		10/02/18 12:18	74-87-3	
Cyclohexane	ND	ug/m3	0.88	0.5		10/02/18 12:18	110-82-7	
Dibromochloromethane	ND	ug/m3	0.86	0.5		10/02/18 12:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	0.39	0.5		10/02/18 12:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/02/18 12:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	0.61	0.5		10/02/18 12:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	0.5		10/02/18 12:18	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	0.50	0.5		10/02/18 12:18	75-71-8	
1,1-Dichloroethane	ND	ug/m3	0.41	0.5		10/02/18 12:18	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.21	0.5		10/02/18 12:18	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.40	0.5		10/02/18 12:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/02/18 12:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.40	0.5		10/02/18 12:18	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.47	0.5		10/02/18 12:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/02/18 12:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.46	0.5		10/02/18 12:18	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	0.71	0.5		10/02/18 12:18	76-14-2	
Ethanol	ND	ug/m3	0.96	0.5		10/02/18 12:18	64-17-5	
Ethyl acetate	ND	ug/m3	0.37	0.5		10/02/18 12:18	141-78-6	
Ethylbenzene	ND	ug/m3	0.44	0.5		10/02/18 12:18	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.2	0.5		10/02/18 12:18	622-96-8	
n-Heptane	ND	ug/m3	0.42	0.5		10/02/18 12:18	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2.7	0.5		10/02/18 12:18	87-68-3	
n-Hexane	ND	ug/m3	0.36	0.5		10/02/18 12:18	110-54-3	
2-Hexanone	ND	ug/m3	2.1	0.5		10/02/18 12:18	591-78-6	
Methylene Chloride	ND	ug/m3	1.8	0.5		10/02/18 12:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.1	0.5		10/02/18 12:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.8	0.5		10/02/18 12:18	1634-04-4	
Naphthalene	ND	ug/m3	1.3	0.5		10/02/18 12:18	91-20-3	
2-Propanol	ND	ug/m3	1.2	0.5		10/02/18 12:18	67-63-0	
Propylene	ND	ug/m3	0.18	0.5		10/02/18 12:18	115-07-1	
Styrene	ND	ug/m3	0.43	0.5		10/02/18 12:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.35	0.5		10/02/18 12:18	79-34-5	
Tetrachloroethene	ND	ug/m3	0.34	0.5		10/02/18 12:18	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.30	0.5		10/02/18 12:18	109-99-9	
Toluene	ND	ug/m3	0.38	0.5		10/02/18 12:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.8	0.5		10/02/18 12:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	0.56	0.5		10/02/18 12:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.28	0.5		10/02/18 12:18	79-00-5	

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### ANALYTICAL RESULTS

Project: TO15  
Pace Project No.: 10452695

Sample: LA382 cert 0859		Lab ID: 10452695010		Collected: 10/17/18 18:23		Received: 10/23/18 11:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>Individual Can Certification</b>		Analytical Method: TO-15							
Trichloroethene	ND	ug/m3	0.27	0.5		10/02/18 12:18	79-01-6		
Trichlorofluoromethane	ND	ug/m3	0.57	0.5		10/02/18 12:18	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	0.78	0.5		10/02/18 12:18	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/02/18 12:18	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	0.50	0.5		10/02/18 12:18	108-67-8		
Vinyl acetate	ND	ug/m3	0.36	0.5		10/02/18 12:18	108-05-4		
Vinyl chloride	ND	ug/m3	0.13	0.5		10/02/18 12:18	75-01-4		
m&p-Xylene	ND	ug/m3	0.88	0.5		10/02/18 12:18	179601-23-1		
o-Xylene	ND	ug/m3	0.44	0.5		10/02/18 12:18	95-47-6		

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### QUALITY CONTROL DATA

Project: TO15  
Pace Project No.: 10452695

QC Batch: 571211 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 10452695001, 10452695003, 10452695005, 10452695007, 10452695009

METHOD BLANK: 3099051 Matrix: Air  
Associated Lab Samples: 10452695001, 10452695003, 10452695005, 10452695007, 10452695009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	10/24/18 09:29	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	10/24/18 09:29	
1,1,2-Trichloroethane	ug/m3	ND	0.56	10/24/18 09:29	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	10/24/18 09:29	
1,1-Dichloroethane	ug/m3	ND	0.82	10/24/18 09:29	
1,1-Dichloroethene	ug/m3	ND	0.81	10/24/18 09:29	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	10/24/18 09:29	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	10/24/18 09:29	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.78	10/24/18 09:29	
1,2-Dichlorobenzene	ug/m3	ND	1.2	10/24/18 09:29	
1,2-Dichloroethane	ug/m3	ND	0.41	10/24/18 09:29	
1,2-Dichloropropane	ug/m3	ND	0.94	10/24/18 09:29	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	10/24/18 09:29	
1,3-Butadiene	ug/m3	ND	0.45	10/24/18 09:29	
1,3-Dichlorobenzene	ug/m3	ND	1.2	10/24/18 09:29	
1,4-Dichlorobenzene	ug/m3	ND	3.1	10/24/18 09:29	
2-Butanone (MEK)	ug/m3	ND	3.0	10/24/18 09:29	
2-Hexanone	ug/m3	ND	4.2	10/24/18 09:29	
2-Propanol	ug/m3	ND	2.5	10/24/18 09:29	
4-Ethyltoluene	ug/m3	ND	2.5	10/24/18 09:29	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	10/24/18 09:29	
Acetone	ug/m3	ND	2.4	10/24/18 09:29	
Benzene	ug/m3	ND	0.32	10/24/18 09:29	
Benzyl chloride	ug/m3	ND	2.6	10/24/18 09:29	
Bromodichloromethane	ug/m3	ND	1.4	10/24/18 09:29	
Bromoform	ug/m3	ND	5.2	10/24/18 09:29	
Bromomethane	ug/m3	ND	0.79	10/24/18 09:29	
Carbon disulfide	ug/m3	ND	0.63	10/24/18 09:29	
Carbon tetrachloride	ug/m3	ND	1.3	10/24/18 09:29	
Chlorobenzene	ug/m3	ND	0.94	10/24/18 09:29	
Chloroethane	ug/m3	ND	0.54	10/24/18 09:29	
Chloroform	ug/m3	ND	0.50	10/24/18 09:29	
Chloromethane	ug/m3	ND	0.42	10/24/18 09:29	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	10/24/18 09:29	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	10/24/18 09:29	
Cyclohexane	ug/m3	ND	1.8	10/24/18 09:29	
Dibromochloromethane	ug/m3	ND	1.7	10/24/18 09:29	
Dichlorodifluoromethane	ug/m3	ND	1.0	10/24/18 09:29	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	10/24/18 09:29	
Ethanol	ug/m3	ND	1.9	10/24/18 09:29	
Ethyl acetate	ug/m3	ND	0.73	10/24/18 09:29	

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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### QUALITY CONTROL DATA

Project: TO15  
Pace Project No.: 10452695

METHOD BLANK: 3099051

Matrix: Air

Associated Lab Samples: 10452695001, 10452695003, 10452695005, 10452695007, 10452695009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	10/24/18 09:29	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	10/24/18 09:29	
m&p-Xylene	ug/m3	ND	1.8	10/24/18 09:29	
Methyl-tert-butyl ether	ug/m3	ND	3.7	10/24/18 09:29	
Methylene Chloride	ug/m3	ND	3.5	10/24/18 09:29	
n-Heptane	ug/m3	ND	0.83	10/24/18 09:29	
n-Hexane	ug/m3	ND	0.72	10/24/18 09:29	
Naphthalene	ug/m3	ND	2.7	10/24/18 09:29	
o-Xylene	ug/m3	ND	0.88	10/24/18 09:29	
Propylene	ug/m3	ND	0.35	10/24/18 09:29	
Styrene	ug/m3	ND	0.87	10/24/18 09:29	
Tetrachloroethene	ug/m3	ND	0.69	10/24/18 09:29	
Tetrahydrofuran	ug/m3	ND	0.60	10/24/18 09:29	
Toluene	ug/m3	ND	0.77	10/24/18 09:29	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	10/24/18 09:29	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	10/24/18 09:29	
Trichloroethene	ug/m3	ND	0.55	10/24/18 09:29	
Trichlorofluoromethane	ug/m3	ND	1.1	10/24/18 09:29	
Vinyl acetate	ug/m3	ND	0.72	10/24/18 09:29	
Vinyl chloride	ug/m3	ND	0.26	10/24/18 09:29	

LABORATORY CONTROL SAMPLE: 3099052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	64.8	117	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	79.1	113	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	62.1	112	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	84.3	108	63-139	
1,1-Dichloroethane	ug/m3	41.1	42.1	102	70-134	
1,1-Dichloroethene	ug/m3	40.3	42.0	104	70-137	
1,2,4-Trichlorobenzene	ug/m3	75.4	83.8	111	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	61.0	122	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	93.0	119	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	74.0	121	70-137	
1,2-Dichloroethane	ug/m3	41.1	43.4	105	70-136	
1,2-Dichloropropane	ug/m3	47	50.7	108	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	63.2	127	70-133	
1,3-Butadiene	ug/m3	22.5	26.5	118	64-141	
1,3-Dichlorobenzene	ug/m3	61.1	73.3	120	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	75.7	124	70-134	
2-Butanone (MEK)	ug/m3	30	32.4	108	65-143	
2-Hexanone	ug/m3	41.6	51.0	122	60-148	
2-Propanol	ug/m3	125	147	117	65-135	
4-Ethyltoluene	ug/m3	50	64.2	129	70-132	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: TO15  
Pace Project No.: 10452695

LABORATORY CONTROL SAMPLE: 3099052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	49.6	119	70-135	
Acetone	ug/m3	121	135	112	59-132	
Benzene	ug/m3	32.5	34.1	105	70-134	
Benzyl chloride	ug/m3	52.6	67.5	128	56-150	
Bromodichloromethane	ug/m3	68.1	82.5	121	70-142	
Bromoform	ug/m3	105	125	119	69-150	
Bromomethane	ug/m3	39.5	45.7	116	61-141	
Carbon disulfide	ug/m3	31.6	36.7	116	66-134	
Carbon tetrachloride	ug/m3	64	63.3	99	60-145	
Chlorobenzene	ug/m3	46.8	51.4	110	70-130	
Chloroethane	ug/m3	26.8	34.5	129	65-143	
Chloroform	ug/m3	49.6	53.2	107	70-132	
Chloromethane	ug/m3	21	22.4	107	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	44.0	109	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	58.0	126	70-136	
Cyclohexane	ug/m3	35	37.1	106	70-133	
Dibromochloromethane	ug/m3	86.6	116	134	68-149	CH
Dichlorodifluoromethane	ug/m3	50.3	53.5	106	69-130	
Dichlorotetrafluoroethane	ug/m3	71	80.2	113	68-130	
Ethanol	ug/m3	91.6	105	115	65-146	
Ethyl acetate	ug/m3	36.6	37.2	102	68-136	
Ethylbenzene	ug/m3	44.1	51.8	117	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	126	116	59-140	
m&p-Xylene	ug/m3	88.3	104	118	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	42.3	115	70-132	
Methylene Chloride	ug/m3	177	167	94	67-132	
n-Heptane	ug/m3	41.6	42.6	102	64-136	
n-Hexane	ug/m3	35.8	35.8	100	70-130	
Naphthalene	ug/m3	53.3	57.0	107	55-136	
o-Xylene	ug/m3	44.1	50.8	115	70-132	
Propylene	ug/m3	17.5	17.3	99	37-150	
Styrene	ug/m3	43.3	55.9	129	70-139	
Tetrachloroethene	ug/m3	68.9	77.7	113	70-133	
Tetrahydrofuran	ug/m3	30	31.9	106	62-141	
Toluene	ug/m3	38.3	43.5	114	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	46.2	115	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	64.9	141	70-135	CH,L3
Trichloroethene	ug/m3	54.6	61.7	113	70-135	
Trichlorofluoromethane	ug/m3	57.1	65.4	115	59-140	
Vinyl acetate	ug/m3	35.8	40.1	112	57-150	
Vinyl chloride	ug/m3	26	28.9	111	70-141	

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### QUALITY CONTROL DATA

Project: TO15  
Pace Project No.: 10452695

SAMPLE DUPLICATE: 3100342

Parameter	Units	10452695001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	5.6	5.7	3	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	1.5		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	2.5J		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	5.2	5.0	5	25	
4-Ethyltoluene	ug/m3	ND	1.6J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	22.6	21.7	4	25	
Benzene	ug/m3	0.99	0.99	0	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.5	2.4	5	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	63.4	60.1	5	25	
Ethyl acetate	ug/m3	1.9	2.0	4	25	
Ethylbenzene	ug/m3	2.7	2.8	5	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	11.4	11.7	2	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	8.9	9.2	3	25	
n-Heptane	ug/m3	2.1	2.1	0	25	

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### QUALITY CONTROL DATA

Project: TO15  
Pace Project No.: 10452695

SAMPLE DUPLICATE: 3100342

Parameter	Units	10452695001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	5.3	5.5	4	25	
Naphthalene	ug/m3	ND	3.3J		25	
o-Xylene	ug/m3	4.0	4.3	6	25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	.83J		25	
Tetrachloroethene	ug/m3	5.4	5.6	3	25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	10.6	11.0	4	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	3.7	3.3	13	25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 3100343

Parameter	Units	10452695003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	5.5	5.7	2	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	1.3J		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	1.6J		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	4.7	5.4	14	25	
4-Ethyltoluene	ug/m3	ND	1.9J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	17.2	19.1	11	25	
Benzene	ug/m3	0.98	0.99	1	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	

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### QUALITY CONTROL DATA

Project: TO15  
Pace Project No.: 10452695

SAMPLE DUPLICATE: 3100343

Parameter	Units	10452695003 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	.57J		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.4	2.5	2	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	57.7	61.9	7	25	
Ethyl acetate	ug/m3	ND	1.9		25	
Ethylbenzene	ug/m3	2.6	2.8	5	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	11.5	11.5	1	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	8.3	8.3	1	25	
n-Heptane	ug/m3	2.0	2.1	6	25	
n-Hexane	ug/m3	5.2	5.3	2	25	
Naphthalene	ug/m3	39.1	40.5	3	25	
o-Xylene	ug/m3	4.2	4.2	1	25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	.71J		25	
Tetrachloroethene	ug/m3	5.0	5.3	5	25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	10.7	10.7	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	3.4	ND		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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## QUALIFIERS

Project: TO15  
Pace Project No.: 10452695

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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.

### ANALYTE QUALIFIERS

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TO15  
Pace Project No.: 10452695

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10452695001	LA378	TO-15	571211		
10452695003	LA379	TO-15	571211		
10452695005	LA380	TO-15	571211		
10452695007	LA381	TO-15	571211		
10452695009	LA382	TO-15	571211		
10452695002	LA378 cert 2318	TO-15	571160		
10452695004	LA379 cert 1479	TO-15	571160		
10452695006	LA380 cert 3456	TO-15	571160		
10452695008	LA381 cert 2806	TO-15	571198		
10452695010	LA382 cert 0859	TO-15	571198		

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WO#: 10452695

AIR: CHAIN-OF-CUSTODY /

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

Pace Analytical  
www.pacelabs.com



**Section A** Required Client Information: Company: STATE OF INDIANA, IDEM  
Address: 100 NORTH SENATE AVENUE  
INDIANAPOLIS, INDIANA 46204  
Email To: \_\_\_\_\_  
Phone: 317-232-8877 Fax: \_\_\_\_\_  
Requested Due Date/TAI: \_\_\_\_\_

**Section B** Required Project Information: Report To: DAVID HARRISON  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Project Number: \_\_\_\_\_

**Section C** Invoice Information: Attention: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Pace Quote Reference: \_\_\_\_\_  
Pace Project Manager/Sales Rep: 33458  
Pace Profile #: \_\_\_\_\_

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

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

ITEM #	MEDIA CODE	PID Reading (Client only)		COLLECTED		Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	Method:									
		DATE	TIME	DATE	TIME					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)	Pace Lab ID	
1	6LC	16 OCT 2018	7:21 PM	17 OCT 2018	6:14 PM	-30	-3.5	2318	0085	X							001, 002		
2	6LC	16 OCT 2018	7:21 PM	17 OCT 2018	6:20 PM	-30	-3.0	1479	0299	X							003, 004		
3	6LC	16 OCT 2018	7:15 PM	17 OCT 2018	6:05 PM	-29	-3.5	3456	1846	X							005, 006		
4	6LC	16 OCT 2018	7:02 PM	17 OCT 2018	6:01 PM	-30	-3.0	2806	0125	X							007, 008		
5	6LC	16 OCT 2018	6:57 PM	17 OCT 2018	6:23 PM	-27	-4.0	0859	1021	X							009, 010		
6	<del>6LC</del>																		
7																			
8																			
9																			
10																			
11																			
12																			

Comments: Relinquished by / Affiliation: Kenneth C. McDaniel, Date: 10/23/18, Time: 8:10 AM, Accepted by / Affiliation: Kenneth C. McDaniel, Date: 10/23/18, Time: 1:30 PM

SAMPLER NAME AND SIGNATURE: KENNETH S. MCDANIEL, DATE SIGNED: OCTOBER 17 2018

ORIGINAL

**Air Sample Condition Upon Receipt** Client Name: IDEM Project #: \_\_\_\_\_  
 Courier:  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other: \_\_\_\_\_  
 Tracking Number: 4545 9906 6520, 6520, 6541

**WO# : 10452695**  
 PM: CT1 Due Date: 10/30/18  
 CLIENT: IDEM-OLQ

Custody Seal on Cooler/Box Present?  Yes  No Seals intact?  Yes  No  
 Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_ Temp Blank rec:  Yes  No  
 Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used:  G87A9170600254  
 G87A9155100842  
 Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 10-23-18 AA  
 Type of ice Received  Blue  Wet  None

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.	Comments:
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: <input checked="" type="checkbox"/> N (list which samples)	
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.	

Samples Received: 3 T-f: Hays, FFET Pressure Gauge # 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>LA378</u>			<u>-3.5</u>	<u>+5</u>					
<u>379</u>			<u>-3</u>	<u>"</u>					
<u>380</u>			<u>-4.5</u>	<u>"</u>					
<u>381</u>			<u>-3</u>	<u>"</u>					
<u>382</u>			<u>-3</u>	<u>"</u>					

**CLIENT NOTIFICATION/RESOLUTION**  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_  
 Field Data Required?  Yes  No

Project Manager Review: Carolynne Hunt Date: 10/23/18  
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of state, incorrect preservative, out of temp, incorrect containers)