

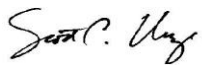
August 01, 2017

RE: Pace Project No.: 10396621

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2017. 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,



Scott Unze
scott.unze@pacelabs.com
1(612)607-6383
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Pace Project No.: 10396621

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-

L 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

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

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 WW Certification #: 382

Wisconsin Certification #: 999407970

Wyoming via EPA Region 8 Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Pace Project No.: 10396621

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10396621001	Sample# 3	Air	07/17/17 10:00	07/21/17 10:15
10396621002	Sample# 2	Air	07/17/17 10:00	07/21/17 10:15
10396621003	Sample# 1	Air	07/17/17 10:00	07/21/17 10:15
10396621004	Unused Can#2492	Air	07/21/17 00:00	07/21/17 10:15

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SAMPLE ANALYTE COUNT

Pace Project No.: 10396621

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10396621001	Sample# 3	Method 3C Gases	NCK	4	PASI-M
		TO-15	CH1	61	PASI-M
10396621002	Sample# 2	Method 3C Gases	NCK	4	PASI-M
		TO-15	NCK	61	PASI-M
10396621003	Sample# 1	Method 3C Gases	NCK	4	PASI-M
		TO-15	NCK	61	PASI-M

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Pace Project No.: 10396621

Method: Method 3C Gases

Description: Method 3C AIR - Fixed Gases

Date: August 01, 2017

General Information:

3 samples were analyzed for Method 3C Gases. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Pace Project No.: 10396621

Method: TO-15

Description: TO15 MSV AIR

Client:

Date: August 01, 2017

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Duplicate Sample:

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

Additional Comments:

Analyte Comments:

QC Batch: 488328

A3: The sample was analyzed by serial dilution.

- Sample# 2 (Lab ID: 10396621002)
- Naphthalene

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Pace Project No.: 10396621

Sample: Sample# 3		Lab ID: 10396621001	Collected: 07/17/17 10:00	Received: 07/21/17 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Method 3C AIR - Fixed Gases		Analytical Method: Method 3C Gases						
Carbon dioxide	7.0	%	2.0	1		07/24/17 12:51	124-38-9	
Carbon monoxide	ND	%	0.40	1		07/24/17 12:51	630-08-0	
Nitrogen	90.3	%	8.0	1		07/24/17 12:51	7727-37-9	
Oxygen	2.7	%	2.0	1		07/24/17 12:51	7782-44-7	
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	28.2	ug/m3	6.4	2.64		07/25/17 10:51	67-64-1	
Benzene	ND	ug/m3	0.86	2.64		07/25/17 10:51	71-43-2	
Benzyl chloride	ND	ug/m3	2.8	2.64		07/25/17 10:51	100-44-7	
Bromodichloromethane	ND	ug/m3	3.6	2.64		07/25/17 10:51	75-27-4	
Bromoform	ND	ug/m3	5.5	2.64		07/25/17 10:51	75-25-2	
Bromomethane	13.9	ug/m3	2.1	2.64		07/25/17 10:51	74-83-9	
1,3-Butadiene	ND	ug/m3	1.2	2.64		07/25/17 10:51	106-99-0	
2-Butanone (MEK)	ND	ug/m3	7.9	2.64		07/25/17 10:51	78-93-3	
Carbon disulfide	20.8	ug/m3	1.7	2.64		07/25/17 10:51	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.7	2.64		07/25/17 10:51	56-23-5	
Chlorobenzene	ND	ug/m3	2.5	2.64		07/25/17 10:51	108-90-7	
Chloroethane	ND	ug/m3	1.4	2.64		07/25/17 10:51	75-00-3	
Chloroform	ND	ug/m3	1.3	2.64		07/25/17 10:51	67-66-3	
Chloromethane	2.6	ug/m3	1.1	2.64		07/25/17 10:51	74-87-3	
Cyclohexane	ND	ug/m3	1.8	2.64		07/25/17 10:51	110-82-7	
Dibromochloromethane	ND	ug/m3	4.6	2.64		07/25/17 10:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	4.1	2.64		07/25/17 10:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.2	2.64		07/25/17 10:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.2	2.64		07/25/17 10:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.2	2.64		07/25/17 10:51	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2.7	2.64		07/25/17 10:51	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2.2	2.64		07/25/17 10:51	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.1	2.64		07/25/17 10:51	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.1	2.64		07/25/17 10:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.1	2.64		07/25/17 10:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.1	2.64		07/25/17 10:51	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2.5	2.64		07/25/17 10:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.4	2.64		07/25/17 10:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.4	2.64		07/25/17 10:51	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3.7	2.64		07/25/17 10:51	76-14-2	
Ethanol	13.4	ug/m3	2.5	2.64		07/25/17 10:51	64-17-5	
Ethyl acetate	ND	ug/m3	1.9	2.64		07/25/17 10:51	141-78-6	
Ethylbenzene	ND	ug/m3	2.3	2.64		07/25/17 10:51	100-41-4	
4-Ethyltoluene	ND	ug/m3	2.6	2.64		07/25/17 10:51	622-96-8	
n-Heptane	ND	ug/m3	2.2	2.64		07/25/17 10:51	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.7	2.64		07/25/17 10:51	87-68-3	
n-Hexane	4.0	ug/m3	1.9	2.64		07/25/17 10:51	110-54-3	
2-Hexanone	ND	ug/m3	11.0	2.64		07/25/17 10:51	591-78-6	
Methylene Chloride	28.1	ug/m3	9.3	2.64		07/25/17 10:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	49.0	ug/m3	11.0	2.64		07/25/17 10:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	9.7	2.64		07/25/17 10:51	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Pace Project No.: 10396621

Sample: Sample# 3		Lab ID: 10396621001	Collected: 07/17/17 10:00	Received: 07/21/17 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Naphthalene	ND	ug/m3	7.0	2.64		07/25/17 10:51	91-20-3	
2-Propanol	ND	ug/m3	6.6	2.64		07/25/17 10:51	67-63-0	
Propylene	ND	ug/m3	0.92	2.64		07/25/17 10:51	115-07-1	
Styrene	ND	ug/m3	2.3	2.64		07/25/17 10:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.8	2.64		07/25/17 10:51	79-34-5	
Tetrachloroethene	ND	ug/m3	1.8	2.64		07/25/17 10:51	127-18-4	
Tetrahydrofuran	ND	ug/m3	1.6	2.64		07/25/17 10:51	109-99-9	
Toluene	3.9	ug/m3	2.0	2.64		07/25/17 10:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10	2.64		07/25/17 10:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.9	2.64		07/25/17 10:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.5	2.64		07/25/17 10:51	79-00-5	
Trichloroethene	ND	ug/m3	1.5	2.64		07/25/17 10:51	79-01-6	
Trichlorofluoromethane	ND	ug/m3	3.0	2.64		07/25/17 10:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	4.2	2.64		07/25/17 10:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	2.6	2.64		07/25/17 10:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2.6	2.64		07/25/17 10:51	108-67-8	
Vinyl acetate	ND	ug/m3	1.9	2.64		07/25/17 10:51	108-05-4	
Vinyl chloride	ND	ug/m3	0.69	2.64		07/25/17 10:51	75-01-4	
m&p-Xylene	5.2	ug/m3	4.7	2.64		07/25/17 10:51	179601-23-1	
o-Xylene	ND	ug/m3	2.3	2.64		07/25/17 10:51	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Pace Project No.: 10396621

Sample: Sample# 2	Lab ID: 10396621002	Collected: 07/17/17 10:00	Received: 07/21/17 10:15	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Method 3C AIR - Fixed Gases		Analytical Method: Method 3C Gases						
Carbon dioxide	9.7	%	2.0	1		07/24/17 13:02	124-38-9	
Carbon monoxide	ND	%	0.40	1		07/24/17 13:02	630-08-0	
Nitrogen	80.9	%	8.0	1		07/24/17 13:02	7727-37-9	
Oxygen	9.4	%	2.0	1		07/24/17 13:02	7782-44-7	
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	771	ug/m3	7.0	2.92		07/26/17 03:15	67-64-1	
Benzene	108	ug/m3	0.95	2.92		07/26/17 03:15	71-43-2	
Benzyl chloride	ND	ug/m3	7.7	2.92		07/26/17 03:15	100-44-7	
Bromodichloromethane	6.3	ug/m3	4.0	2.92		07/26/17 03:15	75-27-4	
Bromoform	16.0	ug/m3	15.3	2.92		07/26/17 03:15	75-25-2	
Bromomethane	3890	ug/m3	115	146.16		07/26/17 03:47	74-83-9	
1,3-Butadiene	ND	ug/m3	1.3	2.92		07/26/17 03:15	106-99-0	
2-Butanone (MEK)	113	ug/m3	8.8	2.92		07/26/17 03:15	78-93-3	
Carbon disulfide	101	ug/m3	1.8	2.92		07/26/17 03:15	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	2.92		07/26/17 03:15	56-23-5	
Chlorobenzene	ND	ug/m3	2.7	2.92		07/26/17 03:15	108-90-7	
Chloroethane	21.7	ug/m3	1.6	2.92		07/26/17 03:15	75-00-3	
Chloroform	ND	ug/m3	1.4	2.92		07/26/17 03:15	67-66-3	
Chloromethane	77.7	ug/m3	1.2	2.92		07/26/17 03:15	74-87-3	
Cyclohexane	11.0	ug/m3	2.0	2.92		07/26/17 03:15	110-82-7	
Dibromochloromethane	ND	ug/m3	5.1	2.92		07/26/17 03:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	4.6	2.92		07/26/17 03:15	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	8.9	2.92		07/26/17 03:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	8.9	2.92		07/26/17 03:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	8.9	2.92		07/26/17 03:15	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2.9	2.92		07/26/17 03:15	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2.4	2.92		07/26/17 03:15	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.2	2.92		07/26/17 03:15	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.4	2.92		07/26/17 03:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.4	2.92		07/26/17 03:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.4	2.92		07/26/17 03:15	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2.7	2.92		07/26/17 03:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.7	2.92		07/26/17 03:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.7	2.92		07/26/17 03:15	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	4.1	2.92		07/26/17 03:15	76-14-2	
Ethanol	120	ug/m3	2.8	2.92		07/26/17 03:15	64-17-5	
Ethyl acetate	ND	ug/m3	2.1	2.92		07/26/17 03:15	141-78-6	
Ethylbenzene	5.7	ug/m3	2.6	2.92		07/26/17 03:15	100-41-4	
4-Ethyltoluene	18.1	ug/m3	2.9	2.92		07/26/17 03:15	622-96-8	
n-Heptane	5.3	ug/m3	2.4	2.92		07/26/17 03:15	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	15.8	2.92		07/26/17 03:15	87-68-3	
n-Hexane	46.9	ug/m3	2.1	2.92		07/26/17 03:15	110-54-3	
2-Hexanone	ND	ug/m3	12.2	2.92		07/26/17 03:15	591-78-6	
Methylene Chloride	49.0	ug/m3	10.3	2.92		07/26/17 03:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	12.2	2.92		07/26/17 03:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	10.7	2.92		07/26/17 03:15	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Pace Project No.: 10396621

Sample: Sample# 2		Lab ID: 10396621002	Collected: 07/17/17 10:00	Received: 07/21/17 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Naphthalene	62300	ug/m3	1900	715.01		07/27/17 06:07	91-20-3	A3
2-Propanol	22.6	ug/m3	7.3	2.92		07/26/17 03:15	67-63-0	
Propylene	ND	ug/m3	51.2	146.16		07/26/17 03:47	115-07-1	
Styrene	208	ug/m3	2.5	2.92		07/26/17 03:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.0	2.92		07/26/17 03:15	79-34-5	
Tetrachloroethene	ND	ug/m3	2.0	2.92		07/26/17 03:15	127-18-4	
Tetrahydrofuran	11.6	ug/m3	1.8	2.92		07/26/17 03:15	109-99-9	
Toluene	46.8	ug/m3	2.2	2.92		07/26/17 03:15	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	11.0	2.92		07/26/17 03:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	3.2	2.92		07/26/17 03:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.6	2.92		07/26/17 03:15	79-00-5	
Trichloroethene	4.5	ug/m3	1.6	2.92		07/26/17 03:15	79-01-6	
Trichlorofluoromethane	ND	ug/m3	3.3	2.92		07/26/17 03:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	4.7	2.92		07/26/17 03:15	76-13-1	
1,2,4-Trimethylbenzene	6.2	ug/m3	2.9	2.92		07/26/17 03:15	95-63-6	
1,3,5-Trimethylbenzene	3.3	ug/m3	2.9	2.92		07/26/17 03:15	108-67-8	
Vinyl acetate	59.3	ug/m3	2.1	2.92		07/26/17 03:15	108-05-4	
Vinyl chloride	3.7	ug/m3	0.76	2.92		07/26/17 03:15	75-01-4	
m&p-Xylene	10	ug/m3	5.2	2.92		07/26/17 03:15	179601-23-1	
o-Xylene	3.5	ug/m3	2.6	2.92		07/26/17 03:15	95-47-6	

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ANALYTICAL RESULTS

Pace Project No.: 10396621

Sample: Sample# 1	Lab ID: 10396621003	Collected: 07/17/17 10:00	Received: 07/21/17 10:15	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Method 3C AIR - Fixed Gases		Analytical Method: Method 3C Gases						
Carbon dioxide	ND	%	2.0	1		07/24/17 13:14	124-38-9	
Carbon monoxide	ND	%	0.40	1		07/24/17 13:14	630-08-0	
Nitrogen	79.0	%	8.0	1		07/24/17 13:14	7727-37-9	
Oxygen	20.3	%	2.0	1		07/24/17 13:14	7782-44-7	
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	50.2	ug/m3	12.3	5.11		07/28/17 08:38	67-64-1	
Benzene	1780	ug/m3	83.0	255.36		07/28/17 08:03	71-43-2	
Benzyl chloride	ND	ug/m3	5.4	5.11		07/28/17 08:38	100-44-7	
Bromodichloromethane	ND	ug/m3	6.9	5.11		07/28/17 08:38	75-27-4	
Bromoform	ND	ug/m3	10.7	5.11		07/28/17 08:38	75-25-2	
Bromomethane	6.8	ug/m3	4.0	5.11		07/28/17 08:38	74-83-9	
1,3-Butadiene	6.6	ug/m3	2.3	5.11		07/28/17 08:38	106-99-0	
2-Butanone (MEK)	ND	ug/m3	15.3	5.11		07/28/17 08:38	78-93-3	
Carbon disulfide	6.4	ug/m3	3.2	5.11		07/28/17 08:38	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.3	5.11		07/28/17 08:38	56-23-5	
Chlorobenzene	ND	ug/m3	4.8	5.11		07/28/17 08:38	108-90-7	
Chloroethane	ND	ug/m3	2.8	5.11		07/28/17 08:38	75-00-3	
Chloroform	ND	ug/m3	2.5	5.11		07/28/17 08:38	67-66-3	
Chloromethane	ND	ug/m3	2.1	5.11		07/28/17 08:38	74-87-3	
Cyclohexane	42.1	ug/m3	3.6	5.11		07/28/17 08:38	110-82-7	
Dibromochloromethane	ND	ug/m3	8.8	5.11		07/28/17 08:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	8.0	5.11		07/28/17 08:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	6.2	5.11		07/28/17 08:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	6.2	5.11		07/28/17 08:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.2	5.11		07/28/17 08:38	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	5.2	5.11		07/28/17 08:38	75-71-8	
1,1-Dichloroethane	ND	ug/m3	4.2	5.11		07/28/17 08:38	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.1	5.11		07/28/17 08:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	4.1	5.11		07/28/17 08:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	4.1	5.11		07/28/17 08:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	4.1	5.11		07/28/17 08:38	156-60-5	
1,2-Dichloropropane	ND	ug/m3	4.8	5.11		07/28/17 08:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	4.7	5.11		07/28/17 08:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	4.7	5.11		07/28/17 08:38	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	7.3	5.11		07/28/17 08:38	76-14-2	
Ethanol	25.1	ug/m3	4.9	5.11		07/28/17 08:38	64-17-5	
Ethyl acetate	ND	ug/m3	3.7	5.11		07/28/17 08:38	141-78-6	
Ethylbenzene	20.3	ug/m3	4.5	5.11		07/28/17 08:38	100-41-4	
4-Ethyltoluene	ND	ug/m3	5.1	5.11		07/28/17 08:38	622-96-8	
n-Heptane	62.7	ug/m3	4.2	5.11		07/28/17 08:38	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	11.1	5.11		07/28/17 08:38	87-68-3	
n-Hexane	64.0	ug/m3	3.7	5.11		07/28/17 08:38	110-54-3	
2-Hexanone	ND	ug/m3	21.3	5.11		07/28/17 08:38	591-78-6	
Methylene Chloride	99.9	ug/m3	18.0	5.11		07/28/17 08:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	21.3	5.11		07/28/17 08:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	18.7	5.11		07/28/17 08:38	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Pace Project No.: 10396621

Sample: Sample# 1		Lab ID: 10396621003	Collected: 07/17/17 10:00	Received: 07/21/17 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Naphthalene	138	ug/m3	13.6	5.11		07/28/17 08:38	91-20-3	
2-Propanol	ND	ug/m3	12.8	5.11		07/28/17 08:38	67-63-0	
Propylene	ND	ug/m3	4.5	5.11		07/28/17 08:38	115-07-1	
Styrene	192	ug/m3	4.4	5.11		07/28/17 08:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	3.6	5.11		07/28/17 08:38	79-34-5	
Tetrachloroethene	ND	ug/m3	3.5	5.11		07/28/17 08:38	127-18-4	
Tetrahydrofuran	ND	ug/m3	3.1	5.11		07/28/17 08:38	109-99-9	
Toluene	164	ug/m3	3.9	5.11		07/28/17 08:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	19.3	5.11		07/28/17 08:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	5.7	5.11		07/28/17 08:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	2.8	5.11		07/28/17 08:38	79-00-5	
Trichloroethene	ND	ug/m3	2.8	5.11		07/28/17 08:38	79-01-6	
Trichlorofluoromethane	ND	ug/m3	5.8	5.11		07/28/17 08:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	8.2	5.11		07/28/17 08:38	76-13-1	
1,2,4-Trimethylbenzene	7.5	ug/m3	5.1	5.11		07/28/17 08:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	5.1	5.11		07/28/17 08:38	108-67-8	
Vinyl acetate	ND	ug/m3	3.7	5.11		07/28/17 08:38	108-05-4	
Vinyl chloride	ND	ug/m3	1.3	5.11		07/28/17 08:38	75-01-4	
m&p-Xylene	35.2	ug/m3	9.0	5.11		07/28/17 08:38	179601-23-1	
o-Xylene	10.1	ug/m3	4.5	5.11		07/28/17 08:38	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Project No.: 10396621

QC Batch:	487096	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
Associated Lab Samples:	10396621001		

METHOD BLANK: 2651420 Matrix: Air

Associated Lab Samples: 10396621001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/25/17 09:29	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	07/25/17 09:29	MN
1,1,2-Trichloroethane	ug/m3	ND	0.55	07/25/17 09:29	MN
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	07/25/17 09:29	
1,1-Dichloroethane	ug/m3	ND	0.82	07/25/17 09:29	
1,1-Dichloroethene	ug/m3	ND	0.81	07/25/17 09:29	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	07/25/17 09:29	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	07/25/17 09:29	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	07/25/17 09:29	
1,2-Dichlorobenzene	ug/m3	ND	1.2	07/25/17 09:29	
1,2-Dichloroethane	ug/m3	ND	0.41	07/25/17 09:29	MN
1,2-Dichloropropane	ug/m3	ND	0.94	07/25/17 09:29	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	07/25/17 09:29	
1,3-Butadiene	ug/m3	ND	0.45	07/25/17 09:29	
1,3-Dichlorobenzene	ug/m3	ND	1.2	07/25/17 09:29	
1,4-Dichlorobenzene	ug/m3	ND	1.2	07/25/17 09:29	
2-Butanone (MEK)	ug/m3	ND	3.0	07/25/17 09:29	
2-Hexanone	ug/m3	ND	4.2	07/25/17 09:29	
2-Propanol	ug/m3	ND	2.5	07/25/17 09:29	
4-Ethyltoluene	ug/m3	ND	1.0	07/25/17 09:29	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	07/25/17 09:29	
Acetone	ug/m3	ND	2.4	07/25/17 09:29	
Benzene	ug/m3	ND	0.32	07/25/17 09:29	
Benzyl chloride	ug/m3	ND	1.0	07/25/17 09:29	
Bromodichloromethane	ug/m3	ND	1.4	07/25/17 09:29	
Bromoform	ug/m3	ND	2.1	07/25/17 09:29	
Bromomethane	ug/m3	ND	0.79	07/25/17 09:29	
Carbon disulfide	ug/m3	ND	0.63	07/25/17 09:29	
Carbon tetrachloride	ug/m3	ND	0.64	07/25/17 09:29	
Chlorobenzene	ug/m3	ND	0.94	07/25/17 09:29	
Chloroethane	ug/m3	ND	0.54	07/25/17 09:29	
Chloroform	ug/m3	ND	0.50	07/25/17 09:29	MN
Chloromethane	ug/m3	ND	0.42	07/25/17 09:29	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/25/17 09:29	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	07/25/17 09:29	
Cyclohexane	ug/m3	ND	0.70	07/25/17 09:29	
Dibromochloromethane	ug/m3	ND	1.7	07/25/17 09:29	
Dichlorodifluoromethane	ug/m3	ND	1.0	07/25/17 09:29	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	07/25/17 09:29	
Ethanol	ug/m3	ND	0.96	07/25/17 09:29	
Ethyl acetate	ug/m3	ND	0.73	07/25/17 09:29	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Project No.: 10396621

METHOD BLANK: 2651420

Matrix: Air

Associated Lab Samples: 10396621001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	07/25/17 09:29	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	07/25/17 09:29	
m&p-Xylene	ug/m3	ND	1.8	07/25/17 09:29	
Methyl-tert-butyl ether	ug/m3	ND	3.7	07/25/17 09:29	
Methylene Chloride	ug/m3	ND	3.5	07/25/17 09:29	
n-Heptane	ug/m3	ND	0.83	07/25/17 09:29	
n-Hexane	ug/m3	ND	0.72	07/25/17 09:29	
Naphthalene	ug/m3	ND	2.7	07/25/17 09:29	
o-Xylene	ug/m3	ND	0.88	07/25/17 09:29	
Propylene	ug/m3	ND	0.35	07/25/17 09:29	
Styrene	ug/m3	ND	0.87	07/25/17 09:29	
Tetrachloroethene	ug/m3	ND	0.69	07/25/17 09:29	
Tetrahydrofuran	ug/m3	ND	0.60	07/25/17 09:29	
Toluene	ug/m3	ND	0.77	07/25/17 09:29	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/25/17 09:29	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	07/25/17 09:29	
Trichloroethene	ug/m3	ND	0.55	07/25/17 09:29	
Trichlorofluoromethane	ug/m3	ND	1.1	07/25/17 09:29	
Vinyl acetate	ug/m3	ND	0.72	07/25/17 09:29	
Vinyl chloride	ug/m3	ND	0.26	07/25/17 09:29	

LABORATORY CONTROL SAMPLE: 2651421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.3	98	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.6	95	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	56.1	101	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	69.3	89	70-130	
1,1-Dichloroethane	ug/m3	41.1	39.1	95	70-130	
1,1-Dichloroethene	ug/m3	40.3	36.2	90	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	64.0	85	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	56.5	113	70-136	
1,2-Dibromoethane (EDB)	ug/m3	78.1	85.9	110	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	67.3	110	70-139	
1,2-Dichloroethane	ug/m3	41.1	40.0	97	70-130	
1,2-Dichloropropane	ug/m3	47	45.8	98	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	53.6	107	70-133	
1,3-Butadiene	ug/m3	22.5	19.5	87	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	65.5	107	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	65.7	108	70-139	
2-Butanone (MEK)	ug/m3	30	31.8	106	70-130	
2-Hexanone	ug/m3	104	99.5	96	70-138	
2-Propanol	ug/m3	125	102	82	70-130	
4-Ethyltoluene	ug/m3	50	55.3	111	70-135	

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QUALITY CONTROL DATA

Pace Project No.: 10396621

LABORATORY CONTROL SAMPLE: 2651421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	104	100	96	70-130	
Acetone	ug/m3	121	98.7	82	64-130	
Benzene	ug/m3	32.5	34.3	105	70-130	
Benzyl chloride	ug/m3	52.6	52.7	100	70-144	
Bromodichloromethane	ug/m3	68.1	68.0	100	70-134	
Bromoform	ug/m3	105	112	107	70-150	
Bromomethane	ug/m3	39.5	38.2	97	70-130	
Carbon disulfide	ug/m3	31.6	30.1	95	70-134	
Carbon tetrachloride	ug/m3	64	63.0	98	68-150	
Chlorobenzene	ug/m3	46.8	50.7	108	70-132	
Chloroethane	ug/m3	26.8	21.6	80	70-132	
Chloroform	ug/m3	49.6	48.8	98	70-130	
Chloromethane	ug/m3	21	20.1	96	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	41.2	102	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	47.1	102	70-137	
Cyclohexane	ug/m3	35	35.5	101	70-130	
Dibromochloromethane	ug/m3	86.6	93.0	107	70-144	
Dichlorodifluoromethane	ug/m3	50.3	51.7	103	70-130	
Dichlorotetrafluoroethane	ug/m3	71	75.4	106	70-130	
Ethanol	ug/m3	91.6	77.5	85	70-136	
Ethyl acetate	ug/m3	36.6	35.5	97	70-130	
Ethylbenzene	ug/m3	44.1	46.6	105	70-134	
Hexachloro-1,3-butadiene	ug/m3	108	94.8	87	45-150	
m&p-Xylene	ug/m3	88.3	92.6	105	70-130	
Methyl-tert-butyl ether	ug/m3	91.6	83.7	91	66-148	
Methylene Chloride	ug/m3	177	149	84	67-133	
n-Heptane	ug/m3	41.6	40.1	96	70-130	
n-Hexane	ug/m3	35.8	35.9	100	67-132	
Naphthalene	ug/m3	53.3	49.8	93	53-150	
o-Xylene	ug/m3	44.1	45.8	104	70-130	
Propylene	ug/m3	17.5	16.1	92	70-135	
Styrene	ug/m3	43.3	47.6	110	70-139	
Tetrachloroethene	ug/m3	68.9	75.6	110	70-130	
Tetrahydrofuran	ug/m3	30	29.2	97	70-130	
Toluene	ug/m3	38.3	40.4	106	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	38.4	95	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	47.2	102	70-142	
Trichloroethene	ug/m3	54.6	59.0	108	70-130	
Trichlorofluoromethane	ug/m3	57.1	54.6	96	70-130	
Vinyl acetate	ug/m3	35.8	35.0	98	70-137	
Vinyl chloride	ug/m3	26	23.9	92	70-130	

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QUALITY CONTROL DATA

Pace Project No.: 10396621

QC Batch:	487776	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
Associated Lab Samples:	10396621003		

METHOD BLANK: 2654783 Matrix: Air

Associated Lab Samples: 10396621003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/27/17 18:21	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	07/27/17 18:21	
1,1,2-Trichloroethane	ug/m3	ND	0.55	07/27/17 18:21	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	07/27/17 18:21	
1,1-Dichloroethane	ug/m3	ND	0.82	07/27/17 18:21	
1,1-Dichloroethene	ug/m3	ND	0.81	07/27/17 18:21	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	07/27/17 18:21	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	07/27/17 18:21	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	07/27/17 18:21	
1,2-Dichlorobenzene	ug/m3	ND	1.2	07/27/17 18:21	
1,2-Dichloroethane	ug/m3	ND	0.41	07/27/17 18:21	
1,2-Dichloropropane	ug/m3	ND	0.94	07/27/17 18:21	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	07/27/17 18:21	
1,3-Butadiene	ug/m3	ND	0.45	07/27/17 18:21	
1,3-Dichlorobenzene	ug/m3	ND	1.2	07/27/17 18:21	
1,4-Dichlorobenzene	ug/m3	ND	1.2	07/27/17 18:21	
2-Butanone (MEK)	ug/m3	ND	3.0	07/27/17 18:21	
2-Hexanone	ug/m3	ND	4.2	07/27/17 18:21	
2-Propanol	ug/m3	ND	2.5	07/27/17 18:21	
4-Ethyltoluene	ug/m3	ND	1.0	07/27/17 18:21	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	07/27/17 18:21	
Acetone	ug/m3	ND	2.4	07/27/17 18:21	
Benzene	ug/m3	ND	0.32	07/27/17 18:21	
Benzyl chloride	ug/m3	ND	1.0	07/27/17 18:21	
Bromodichloromethane	ug/m3	ND	1.4	07/27/17 18:21	
Bromoform	ug/m3	ND	2.1	07/27/17 18:21	
Bromomethane	ug/m3	ND	0.79	07/27/17 18:21	
Carbon disulfide	ug/m3	ND	0.63	07/27/17 18:21	
Carbon tetrachloride	ug/m3	ND	0.64	07/27/17 18:21	
Chlorobenzene	ug/m3	ND	0.94	07/27/17 18:21	
Chloroethane	ug/m3	ND	0.54	07/27/17 18:21	
Chloroform	ug/m3	ND	0.50	07/27/17 18:21	
Chloromethane	ug/m3	ND	0.42	07/27/17 18:21	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/27/17 18:21	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	07/27/17 18:21	
Cyclohexane	ug/m3	ND	0.70	07/27/17 18:21	
Dibromochloromethane	ug/m3	ND	1.7	07/27/17 18:21	
Dichlorodifluoromethane	ug/m3	ND	1.0	07/27/17 18:21	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	07/27/17 18:21	
Ethanol	ug/m3	ND	0.96	07/27/17 18:21	
Ethyl acetate	ug/m3	ND	0.73	07/27/17 18:21	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Project No.: 10396621

METHOD BLANK: 2654783

Matrix: Air

Associated Lab Samples: 10396621003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	07/27/17 18:21	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	07/27/17 18:21	
m&p-Xylene	ug/m3	ND	1.8	07/27/17 18:21	
Methyl-tert-butyl ether	ug/m3	ND	3.7	07/27/17 18:21	
Methylene Chloride	ug/m3	ND	3.5	07/27/17 18:21	
n-Heptane	ug/m3	ND	0.83	07/27/17 18:21	
n-Hexane	ug/m3	ND	0.72	07/27/17 18:21	
Naphthalene	ug/m3	ND	2.7	07/27/17 18:21	
o-Xylene	ug/m3	ND	0.88	07/27/17 18:21	
Propylene	ug/m3	ND	0.88	07/27/17 18:21	MN
Styrene	ug/m3	ND	0.87	07/27/17 18:21	
Tetrachloroethene	ug/m3	ND	0.69	07/27/17 18:21	
Tetrahydrofuran	ug/m3	ND	0.60	07/27/17 18:21	
Toluene	ug/m3	ND	0.77	07/27/17 18:21	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/27/17 18:21	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	07/27/17 18:21	
Trichloroethene	ug/m3	ND	0.55	07/27/17 18:21	
Trichlorofluoromethane	ug/m3	ND	1.1	07/27/17 18:21	
Vinyl acetate	ug/m3	ND	0.72	07/27/17 18:21	
Vinyl chloride	ug/m3	ND	0.26	07/27/17 18:21	

LABORATORY CONTROL SAMPLE: 2654784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	60.6	109	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	64.9	93	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	54.1	98	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	83.8	108	70-130	
1,1-Dichloroethane	ug/m3	41.1	41.1	100	70-130	
1,1-Dichloroethene	ug/m3	40.3	43.4	108	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	73.2	97	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	47.5	95	70-136	
1,2-Dibromoethane (EDB)	ug/m3	78.1	73.6	94	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	61.2	100	70-139	
1,2-Dichloroethane	ug/m3	41.1	43.4	105	70-130	
1,2-Dichloropropane	ug/m3	47	51.6	110	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	48.0	96	70-133	
1,3-Butadiene	ug/m3	22.5	21.8	97	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	62.9	103	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	63.1	103	70-139	
2-Butanone (MEK)	ug/m3	30	32.7	109	70-130	
2-Hexanone	ug/m3	104	91.7	88	70-138	
2-Propanol	ug/m3	125	117	94	70-130	
4-Ethyltoluene	ug/m3	50	50.3	101	70-135	

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QUALITY CONTROL DATA

Pace Project No.: 10396621

LABORATORY CONTROL SAMPLE: 2654784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	104	93.1	89	70-130	
Acetone	ug/m3	121	126	104	64-130	
Benzene	ug/m3	32.5	34.5	106	70-130	
Benzyl chloride	ug/m3	52.6	60.3	115	70-144	
Bromodichloromethane	ug/m3	68.1	72.4	106	70-134	
Bromoform	ug/m3	105	102	97	70-150	
Bromomethane	ug/m3	39.5	38.6	98	70-130	
Carbon disulfide	ug/m3	31.6	32.3	102	70-134	
Carbon tetrachloride	ug/m3	64	70.0	110	68-150	
Chlorobenzene	ug/m3	46.8	44.0	94	70-132	
Chloroethane	ug/m3	26.8	26.5	99	70-132	
Chloroform	ug/m3	49.6	52.8	106	70-130	
Chloromethane	ug/m3	21	22.8	109	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	42.1	104	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	45.9	100	70-137	
Cyclohexane	ug/m3	35	38.0	109	70-130	
Dibromochloromethane	ug/m3	86.6	86.1	99	70-144	
Dichlorodifluoromethane	ug/m3	50.3	51.6	103	70-130	
Dichlorotetrafluoroethane	ug/m3	71	77.8	109	70-130	
Ethanol	ug/m3	91.6	93.2	102	70-136	
Ethyl acetate	ug/m3	36.6	36.9	101	70-130	
Ethylbenzene	ug/m3	44.1	42.0	95	70-134	
Hexachloro-1,3-butadiene	ug/m3	108	94.1	87	45-150	
m&p-Xylene	ug/m3	88.3	82.7	94	70-130	
Methyl-tert-butyl ether	ug/m3	91.6	94.5	103	66-148	
Methylene Chloride	ug/m3	177	186	105	67-133	
n-Heptane	ug/m3	41.6	45.3	109	70-130	
n-Hexane	ug/m3	35.8	39.3	110	67-132	
Naphthalene	ug/m3	53.3	52.0	98	53-150	
o-Xylene	ug/m3	44.1	42.0	95	70-130	
Propylene	ug/m3	17.5	18.5	106	70-135	
Styrene	ug/m3	43.3	42.5	98	70-139	
Tetrachloroethene	ug/m3	68.9	70.1	102	70-130	
Tetrahydrofuran	ug/m3	30	32.5	108	70-130	
Toluene	ug/m3	38.3	39.3	103	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	42.7	106	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	46.1	100	70-142	
Trichloroethene	ug/m3	54.6	57.3	105	70-130	
Trichlorofluoromethane	ug/m3	57.1	60.2	105	70-130	
Vinyl acetate	ug/m3	35.8	38.1	107	70-137	
Vinyl chloride	ug/m3	26	25.6	98	70-130	

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QUALITY CONTROL DATA

Pace Project No.: 10396621

SAMPLE DUPLICATE: 2655942

Parameter	Units	10397170002 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	ND	ND		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	ND		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	4.5J		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	3.3J		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	34.5	36.8	6	25	
Benzene	ug/m3	0.68	0.86	23	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	1.2	1.2	3	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	1.2		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.9	2.9	2	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	49.3	51.2	4	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	4.1J		25	
n-Heptane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Pace Project No.: 10396621

SAMPLE DUPLICATE: 2655942

Parameter	Units	10397170002 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	2.0	2.2	13	25	
Naphthalene	ug/m3	ND	4J		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	2.7	3.2	17	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	ND	ND		25	
Vinyl acetate	ug/m3	3.3	3.3	2	25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Pace Project No.: 10396621

QC Batch:	488328	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
Associated Lab Samples:	10396621002		

METHOD BLANK: 2657717 Matrix: Air

Associated Lab Samples: 10396621002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/25/17 14:16	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	07/25/17 14:16	
1,1,2-Trichloroethane	ug/m3	ND	0.55	07/25/17 14:16	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	07/25/17 14:16	
1,1-Dichloroethane	ug/m3	ND	0.82	07/25/17 14:16	
1,1-Dichloroethene	ug/m3	ND	0.81	07/25/17 14:16	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	07/25/17 14:16	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	07/25/17 14:16	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	07/25/17 14:16	
1,2-Dichlorobenzene	ug/m3	ND	3.1	07/25/17 14:16	
1,2-Dichloroethane	ug/m3	ND	0.41	07/25/17 14:16	
1,2-Dichloropropane	ug/m3	ND	0.94	07/25/17 14:16	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	07/25/17 14:16	
1,3-Butadiene	ug/m3	ND	0.45	07/25/17 14:16	
1,3-Dichlorobenzene	ug/m3	ND	3.1	07/25/17 14:16	
1,4-Dichlorobenzene	ug/m3	ND	3.1	07/25/17 14:16	
2-Butanone (MEK)	ug/m3	ND	3.0	07/25/17 14:16	
2-Hexanone	ug/m3	ND	4.2	07/25/17 14:16	
2-Propanol	ug/m3	ND	2.5	07/25/17 14:16	
4-Ethyltoluene	ug/m3	ND	1.0	07/25/17 14:16	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	07/25/17 14:16	
Acetone	ug/m3	ND	2.4	07/25/17 14:16	
Benzene	ug/m3	ND	0.32	07/25/17 14:16	
Benzyl chloride	ug/m3	ND	2.6	07/25/17 14:16	
Bromodichloromethane	ug/m3	ND	1.4	07/25/17 14:16	
Bromoform	ug/m3	ND	5.3	07/25/17 14:16	
Bromomethane	ug/m3	ND	0.79	07/25/17 14:16	
Carbon disulfide	ug/m3	ND	0.63	07/25/17 14:16	
Carbon tetrachloride	ug/m3	ND	0.64	07/25/17 14:16	
Chlorobenzene	ug/m3	ND	0.94	07/25/17 14:16	
Chloroethane	ug/m3	ND	0.54	07/25/17 14:16	
Chloroform	ug/m3	ND	0.50	07/25/17 14:16	
Chloromethane	ug/m3	ND	0.42	07/25/17 14:16	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/25/17 14:16	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	07/25/17 14:16	
Cyclohexane	ug/m3	ND	0.70	07/25/17 14:16	
Dibromochloromethane	ug/m3	ND	1.7	07/25/17 14:16	
Dichlorodifluoromethane	ug/m3	ND	1.0	07/25/17 14:16	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	07/25/17 14:16	
Ethanol	ug/m3	ND	0.96	07/25/17 14:16	
Ethyl acetate	ug/m3	ND	0.73	07/25/17 14:16	

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QUALITY CONTROL DATA

Pace Project No.: 10396621

METHOD BLANK: 2657717

Matrix: Air

Associated Lab Samples: 10396621002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	07/25/17 14:16	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	07/25/17 14:16	
m&p-Xylene	ug/m3	ND	1.8	07/25/17 14:16	
Methyl-tert-butyl ether	ug/m3	ND	3.7	07/25/17 14:16	
Methylene Chloride	ug/m3	ND	3.5	07/25/17 14:16	
n-Heptane	ug/m3	ND	0.83	07/25/17 14:16	
n-Hexane	ug/m3	ND	0.72	07/25/17 14:16	
Naphthalene	ug/m3	ND	2.7	07/25/17 14:16	
o-Xylene	ug/m3	ND	0.88	07/25/17 14:16	
Propylene	ug/m3	ND	0.35	07/25/17 14:16	
Styrene	ug/m3	ND	0.87	07/25/17 14:16	
Tetrachloroethene	ug/m3	ND	0.69	07/25/17 14:16	
Tetrahydrofuran	ug/m3	ND	0.60	07/25/17 14:16	
Toluene	ug/m3	ND	0.77	07/25/17 14:16	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/25/17 14:16	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	07/25/17 14:16	
Trichloroethene	ug/m3	ND	0.55	07/25/17 14:16	
Trichlorofluoromethane	ug/m3	ND	1.1	07/25/17 14:16	
Vinyl acetate	ug/m3	ND	0.72	07/25/17 14:16	
Vinyl chloride	ug/m3	ND	0.26	07/25/17 14:16	

LABORATORY CONTROL SAMPLE: 2657718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.9	103	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.3	109	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	60.6	109	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	67.2	86	70-130	
1,1-Dichloroethane	ug/m3	41.1	41.2	100	70-130	
1,1-Dichloroethene	ug/m3	40.3	34.3	85	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	54.5	72	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	47.2	94	70-136	
1,2-Dibromoethane (EDB)	ug/m3	78.1	83.3	107	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	56.6	93	70-139	
1,2-Dichloroethane	ug/m3	41.1	40.8	99	70-130	
1,2-Dichloropropane	ug/m3	47	48.4	103	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	51.1	102	70-133	
1,3-Butadiene	ug/m3	22.5	22.5	100	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	53.0	87	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	54.6	89	70-139	
2-Butanone (MEK)	ug/m3	30	30.3	101	70-130	
2-Hexanone	ug/m3	104	105	100	70-138	
2-Propanol	ug/m3	125	117	94	70-130	
4-Ethyltoluene	ug/m3	50	55.7	111	70-135	

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QUALITY CONTROL DATA

Pace Project No.: 10396621

LABORATORY CONTROL SAMPLE: 2657718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	104	107	103	70-130	
Acetone	ug/m3	121	105	87	64-130	
Benzene	ug/m3	32.5	32.4	100	70-130	
Benzyl chloride	ug/m3	52.6	45.0	86	70-144	
Bromodichloromethane	ug/m3	68.1	71.0	104	70-134	
Bromoform	ug/m3	105	95.8	91	70-150	
Bromomethane	ug/m3	39.5	34.5	87	70-130	
Carbon disulfide	ug/m3	31.6	25.0	79	70-134	
Carbon tetrachloride	ug/m3	64	67.5	105	68-150	
Chlorobenzene	ug/m3	46.8	47.9	102	70-132	
Chloroethane	ug/m3	26.8	23.7	88	70-132	
Chloroform	ug/m3	49.6	48.2	97	70-130	
Chloromethane	ug/m3	21	20.9	100	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	41.7	104	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	49.7	108	70-137	
Cyclohexane	ug/m3	35	35.3	101	70-130	
Dibromochloromethane	ug/m3	86.6	92.1	106	70-144	
Dichlorodifluoromethane	ug/m3	50.3	48.7	97	70-130	
Dichlorotetrafluoroethane	ug/m3	71	71.5	101	70-130	
Ethanol	ug/m3	91.6	90.9	99	70-136	
Ethyl acetate	ug/m3	36.6	37.5	102	70-130	
Ethylbenzene	ug/m3	44.1	44.3	100	70-134	
Hexachloro-1,3-butadiene	ug/m3	108	113	105	45-150	
m&p-Xylene	ug/m3	88.3	86.8	98	70-130	
Methyl-tert-butyl ether	ug/m3	91.6	88.6	97	66-148	
Methylene Chloride	ug/m3	177	153	86	67-133	
n-Heptane	ug/m3	41.6	43.1	103	70-130	
n-Hexane	ug/m3	35.8	35.1	98	67-132	
Naphthalene	ug/m3	53.3	47.2	89	53-150	
o-Xylene	ug/m3	44.1	44.1	100	70-130	
Propylene	ug/m3	17.5	18.0	103	70-135	
Styrene	ug/m3	43.3	47.6	110	70-139	
Tetrachloroethene	ug/m3	68.9	76.2	111	70-130	
Tetrahydrofuran	ug/m3	30	31.3	104	70-130	
Toluene	ug/m3	38.3	38.4	100	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	39.0	97	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	44.2	96	70-142	
Trichloroethene	ug/m3	54.6	59.0	108	70-130	
Trichlorofluoromethane	ug/m3	57.1	50.9	89	70-130	
Vinyl acetate	ug/m3	35.8	37.7	105	70-137	
Vinyl chloride	ug/m3	26	27.0	104	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Pace Project No.: 10396621

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.

S - Surrogate

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

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

values. LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent

Difference NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

analytes. TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Pace Project No.: 10396621

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10396621001	Sample# 3	Method 3C Gases	486861		
10396621002	Sample# 2	Method 3C Gases	486861		
10396621003	Sample# 1	Method 3C Gases	486861		
10396621001	Sample# 3	TO-15	487096		
10396621002	Sample# 2	TO-15	488328		
10396621003	Sample# 1	TO-15	487776		

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