

**ATTACHMENT 3
SAMPLING RESULTS
(JANUARY 2023 (24-HOUR SAMPLE))**

January 25, 2023

David Cochran
City of Bristol VA
2655 Valley Dr
Bristol, VA 24201

RE: Project: City of Bristol VA
Pace Project No.: 92648496

Dear David Cochran:

Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet

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

Sincerely,



Sara Poulson
sara.poulson@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jonathan Hayes
Joey Lamie



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: City of Bristol VA

Pace Project No.: 92648496

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification #: 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification #: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: City of Bristol VA

Pace Project No.: 92648496

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92648496001	January 24hr Sample	Air	01/20/23 10:14	01/24/23 09:00

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SAMPLE ANALYTE COUNT

Project: City of Bristol VA

Pace Project No.: 92648496

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92648496001	January 24hr Sample	TO-15	DBB	69	PAN

PAN = Pace National - Mt. Juliet

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: City of Bristol VA

Pace Project No.: 92648496

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648496001	January 24hr Sample					
TO-15	Acetone	5.47	ug/m3	2.97	01/24/23 18:56	
TO-15	Benzene	12.2	ug/m3	0.639	01/24/23 18:56	
TO-15	Chloromethane	1.23	ug/m3	0.413	01/24/23 18:56	
TO-15	Ethanol	38.8	ug/m3	2.36	01/24/23 18:56	
TO-15	Ethylbenzene	1.62	ug/m3	0.867	01/24/23 18:56	
TO-15	Trichlorofluoromethane	1.37	ug/m3	1.12	01/24/23 18:56	
TO-15	Dichlorodifluoromethane	2.78	ug/m3	0.989	01/24/23 18:56	
TO-15	1,1,2-Trichlorotrifluoroethane	0.664J	ug/m3	1.53	01/24/23 18:56	J
TO-15	n-Heptane	0.781J	ug/m3	0.818	01/24/23 18:56	J
TO-15	2-Butanone (MEK)	13.9	ug/m3	3.69	01/24/23 18:56	
TO-15	4-Methyl-2-pentanone (MIBK)	3.61J	ug/m3	5.12	01/24/23 18:56	J
TO-15	2-Propanol	15.6	ug/m3	3.07	01/24/23 18:56	
TO-15	Styrene	0.386J	ug/m3	0.851	01/24/23 18:56	J
TO-15	Tetrachloroethene	6.71	ug/m3	1.36	01/24/23 18:56	
TO-15	Tetrahydrofuran	1.21	ug/m3	0.590	01/24/23 18:56	
TO-15	Toluene	3.92	ug/m3	1.88	01/24/23 18:56	
TO-15	Trichloroethene	0.409J	ug/m3	1.07	01/24/23 18:56	J
TO-15	m&p-Xylene	1.58J	ug/m3	1.73	01/24/23 18:56	J
TO-15	o-Xylene	0.572J	ug/m3	0.867	01/24/23 18:56	J

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: City of Bristol VA

Pace Project No.: 92648496

Method: TO-15

Description: VOA (MS) TO-15

Client: City of Bristol VA

Date: January 25, 2023

General Information:

1 sample was analyzed for TO-15 by Pace National Mt. Juliet. 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.

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of Bristol VA

Pace Project No.: 92648496

Sample: January 24hr Sample Lab ID: 92648496001 Collected: 01/20/23 10:14 Received: 01/24/23 09:00 Matrix: Air									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (MS) TO-15 Analytical Method: TO-15 Preparation Method: TO-15 Pace National - Mt. Juliet									
Acetone	5.47	ug/m3	2.97	1.39	1	01/24/23 18:56	01/24/23 18:56	67-64-1	
Allyl chloride	ND	ug/m3	0.626	0.357	1	01/24/23 18:56	01/24/23 18:56	107-05-1	
Benzene	12.2	ug/m3	0.639	0.228	1	01/24/23 18:56	01/24/23 18:56	71-43-2	
Benzyl chloride	ND	ug/m3	1.04	0.311	1	01/24/23 18:56	01/24/23 18:56	100-44-7	
Bromodichloromethane	ND	ug/m3	1.34	0.471	1	01/24/23 18:56	01/24/23 18:56	75-27-4	
Bromoform	ND	ug/m3	6.21	0.757	1	01/24/23 18:56	01/24/23 18:56	75-25-2	
Bromomethane	ND	ug/m3	0.776	0.381	1	01/24/23 18:56	01/24/23 18:56	74-83-9	
1,3-Butadiene	ND	ug/m3	4.43	0.230	1	01/24/23 18:56	01/24/23 18:56	106-99-0	
Carbon disulfide	ND	ug/m3	0.622	0.317	1	01/24/23 18:56	01/24/23 18:56	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.26	0.461	1	01/24/23 18:56	01/24/23 18:56	56-23-5	
Chlorobenzene	ND	ug/m3	0.924	0.385	1	01/24/23 18:56	01/24/23 18:56	108-90-7	
Chloroethane	ND	ug/m3	0.528	0.263	1	01/24/23 18:56	01/24/23 18:56	75-00-3	
Chloroform	ND	ug/m3	0.973	0.349	1	01/24/23 18:56	01/24/23 18:56	67-66-3	
Chloromethane	1.23	ug/m3	0.413	0.213	1	01/24/23 18:56	01/24/23 18:56	74-87-3	
2-Chlorotoluene	ND	ug/m3	1.03	0.427	1	01/24/23 18:56	01/24/23 18:56	95-49-8	
Cyclohexane	ND	ug/m3	0.689	0.259	1	01/24/23 18:56	01/24/23 18:56	110-82-7	
Dibromochloromethane	ND	ug/m3	1.70	0.618	1	01/24/23 18:56	01/24/23 18:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.54	0.554	1	01/24/23 18:56	01/24/23 18:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.20	0.770	1	01/24/23 18:56	01/24/23 18:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.20	1.09	1	01/24/23 18:56	01/24/23 18:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.20	0.335	1	01/24/23 18:56	01/24/23 18:56	106-46-7	
1,2-Dichloroethane	ND	ug/m3	0.810	0.283	1	01/24/23 18:56	01/24/23 18:56	107-06-2	
1,1-Dichloroethane	ND	ug/m3	0.802	0.290	1	01/24/23 18:56	01/24/23 18:56	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.793	0.302	1	01/24/23 18:56	01/24/23 18:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.793	0.311	1	01/24/23 18:56	01/24/23 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.793	0.267	1	01/24/23 18:56	01/24/23 18:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.924	0.351	1	01/24/23 18:56	01/24/23 18:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.908	0.313	1	01/24/23 18:56	01/24/23 18:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.908	0.331	1	01/24/23 18:56	01/24/23 18:56	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.721	0.300	1	01/24/23 18:56	01/24/23 18:56	123-91-1	
Ethanol	38.8	ug/m3	2.36	0.500	1	01/24/23 18:56	01/24/23 18:56	64-17-5	
Ethylbenzene	1.62	ug/m3	0.867	0.362	1	01/24/23 18:56	01/24/23 18:56	100-41-4	
Ethyl acetate	ND	ug/m3	0.720	0.360	1	01/24/23 18:56	01/24/23 18:56	141-78-6	
4-Ethyltoluene	ND	ug/m3	0.982	0.384	1	01/24/23 18:56	01/24/23 18:56	622-96-8	
Trichlorofluoromethane	1.37	ug/m3	1.12	0.460	1	01/24/23 18:56	01/24/23 18:56	75-69-4	
Dichlorodifluoromethane	2.78	ug/m3	0.989	0.678	1	01/24/23 18:56	01/24/23 18:56	75-71-8	
1,1,2-Trichlorotrifluoroethane	0.664J	ug/m3	1.53	0.608	1	01/24/23 18:56	01/24/23 18:56	76-13-1	J
Dichlorotetrafluoroethane	ND	ug/m3	1.40	0.622	1	01/24/23 18:56	01/24/23 18:56	76-14-2	
n-Heptane	0.781J	ug/m3	0.818	0.425	1	01/24/23 18:56	01/24/23 18:56	142-82-5	J
Hexachloro-1,3-butadiene	ND	ug/m3	6.73	1.12	1	01/24/23 18:56	01/24/23 18:56	87-68-3	
n-Hexane	ND	ug/m3	2.22	0.726	1	01/24/23 18:56	01/24/23 18:56	110-54-3	
Isopropylbenzene (Cumene)	ND	ug/m3	0.983	0.382	1	01/24/23 18:56	01/24/23 18:56	98-82-8	
Methylene Chloride	ND	ug/m3	0.694	0.340	1	01/24/23 18:56	01/24/23 18:56	75-09-2	
2-Hexanone	ND	ug/m3	5.11	0.544	1	01/24/23 18:56	01/24/23 18:56	591-78-6	
2-Butanone (MEK)	13.9	ug/m3	3.69	0.240	1	01/24/23 18:56	01/24/23 18:56	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of Bristol VA

Pace Project No.: 92648496

Sample: January 24hr Sample Lab ID: 92648496001 Collected: 01/20/23 10:14 Received: 01/24/23 09:00 Matrix: Air									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (MS) TO-15 Analytical Method: TO-15 Preparation Method: TO-15 Pace National - Mt. Juliet									
4-Methyl-2-pentanone (MIBK)	3.61J	ug/m3	5.12	0.313	1	01/24/23 18:56	01/24/23 18:56	108-10-1	J
Methyl methacrylate	ND	ug/m3	0.819	0.359	1	01/24/23 18:56	01/24/23 18:56	80-62-6	
Methyl-tert-butyl ether	ND	ug/m3	0.721	0.233	1	01/24/23 18:56	01/24/23 18:56	1634-04-4	
Naphthalene	ND	ug/m3	3.30	1.83	1	01/24/23 18:56	01/24/23 18:56	91-20-3	
2-Propanol	15.6	ug/m3	3.07	0.649	1	01/24/23 18:56	01/24/23 18:56	67-63-0	
Propylene	ND	ug/m3	2.15	0.160	1	01/24/23 18:56	01/24/23 18:56	115-07-1	
Styrene	0.386J	ug/m3	0.851	0.335	1	01/24/23 18:56	01/24/23 18:56	100-42-5	J
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.37	0.511	1	01/24/23 18:56	01/24/23 18:56	79-34-5	
Tetrachloroethene	6.71	ug/m3	1.36	0.553	1	01/24/23 18:56	01/24/23 18:56	127-18-4	
Tetrahydrofuran	1.21	ug/m3	0.590	0.216	1	01/24/23 18:56	01/24/23 18:56	109-99-9	
Toluene	3.92	ug/m3	1.88	0.328	1	01/24/23 18:56	01/24/23 18:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	4.66	1.10	1	01/24/23 18:56	01/24/23 18:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.09	0.400	1	01/24/23 18:56	01/24/23 18:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.09	0.422	1	01/24/23 18:56	01/24/23 18:56	79-00-5	
Trichloroethene	0.409J	ug/m3	1.07	0.364	1	01/24/23 18:56	01/24/23 18:56	79-01-6	J
1,2,4-Trimethylbenzene	ND	ug/m3	0.982	0.375	1	01/24/23 18:56	01/24/23 18:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.982	0.382	1	01/24/23 18:56	01/24/23 18:56	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	0.934	0.621	1	01/24/23 18:56	01/24/23 18:56	540-84-1	
Vinyl chloride	ND	ug/m3	0.511	0.243	1	01/24/23 18:56	01/24/23 18:56	75-01-4	
Vinyl bromide	ND	ug/m3	0.875	0.373	1	01/24/23 18:56	01/24/23 18:56	593-60-2	
Vinyl acetate	ND	ug/m3	0.704	0.408	1	01/24/23 18:56	01/24/23 18:56	108-05-4	
m&p-Xylene	1.58J	ug/m3	1.73	0.585	1	01/24/23 18:56	01/24/23 18:56	179601-23-1	J
o-Xylene	0.572J	ug/m3	0.867	0.359	1	01/24/23 18:56	01/24/23 18:56	95-47-6	J
Surrogates									
1,4-Dichlorobenzene-d4 (IS)	95.6	%	60.0-140		1	01/24/23 18:56	01/24/23 18:56	3855-82-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Bristol VA
Pace Project No.: 92648496

QC Batch:	1993821	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	VOA (MS) TO-15
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92648496001

METHOD BLANK: R3883929-3 Matrix: Air
Associated Lab Samples: 92648496001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/m3	ND	2.97	1.39	01/24/23 09:48	
Allyl chloride	ug/m3	ND	0.626	0.357	01/24/23 09:48	
Benzene	ug/m3	ND	0.639	0.228	01/24/23 09:48	
Benzyl chloride	ug/m3	ND	1.04	0.311	01/24/23 09:48	
Bromodichloromethane	ug/m3	ND	1.34	0.471	01/24/23 09:48	
Bromoform	ug/m3	ND	6.21	0.757	01/24/23 09:48	
Bromomethane	ug/m3	ND	0.776	0.381	01/24/23 09:48	
1,3-Butadiene	ug/m3	ND	4.43	0.230	01/24/23 09:48	
Carbon disulfide	ug/m3	ND	0.622	0.317	01/24/23 09:48	
Carbon tetrachloride	ug/m3	ND	1.26	0.461	01/24/23 09:48	
Chlorobenzene	ug/m3	ND	0.924	0.385	01/24/23 09:48	
Chloroethane	ug/m3	ND	0.528	0.263	01/24/23 09:48	
Chloroform	ug/m3	ND	0.973	0.349	01/24/23 09:48	
Chloromethane	ug/m3	ND	0.413	0.213	01/24/23 09:48	
2-Chlorotoluene	ug/m3	ND	1.03	0.427	01/24/23 09:48	
Cyclohexane	ug/m3	ND	0.689	0.259	01/24/23 09:48	
Dibromochloromethane	ug/m3	ND	1.70	0.618	01/24/23 09:48	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.54	0.554	01/24/23 09:48	
1,2-Dichlorobenzene	ug/m3	ND	1.20	0.770	01/24/23 09:48	
1,3-Dichlorobenzene	ug/m3	ND	1.20	1.09	01/24/23 09:48	
1,4-Dichlorobenzene	ug/m3	ND	1.20	0.335	01/24/23 09:48	
1,2-Dichloroethane	ug/m3	ND	0.810	0.283	01/24/23 09:48	
1,1-Dichloroethane	ug/m3	ND	0.802	0.290	01/24/23 09:48	
1,1-Dichloroethene	ug/m3	ND	0.793	0.302	01/24/23 09:48	
cis-1,2-Dichloroethene	ug/m3	ND	0.793	0.311	01/24/23 09:48	
trans-1,2-Dichloroethene	ug/m3	ND	0.793	0.267	01/24/23 09:48	
1,2-Dichloropropane	ug/m3	ND	0.924	0.351	01/24/23 09:48	
cis-1,3-Dichloropropene	ug/m3	ND	0.908	0.313	01/24/23 09:48	
trans-1,3-Dichloropropene	ug/m3	ND	0.908	0.331	01/24/23 09:48	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	0.721	0.300	01/24/23 09:48	
Ethanol	ug/m3	1.21J	2.36	0.500	01/24/23 09:48	J
Ethylbenzene	ug/m3	ND	0.867	0.362	01/24/23 09:48	
Ethyl acetate	ug/m3	ND	0.720	0.360	01/24/23 09:48	
4-Ethyltoluene	ug/m3	ND	0.982	0.384	01/24/23 09:48	
Trichlorofluoromethane	ug/m3	ND	1.12	0.460	01/24/23 09:48	
Dichlorodifluoromethane	ug/m3	ND	0.989	0.678	01/24/23 09:48	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.53	0.608	01/24/23 09:48	
Dichlorotetrafluoroethane	ug/m3	ND	1.40	0.622	01/24/23 09:48	
n-Heptane	ug/m3	ND	0.818	0.425	01/24/23 09:48	
Hexachloro-1,3-butadiene	ug/m3	ND	6.73	1.12	01/24/23 09:48	

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: City of Bristol VA
Pace Project No.: 92648496

METHOD BLANK: R3883929-3

Matrix: Air

Associated Lab Samples: 92648496001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
n-Hexane	ug/m3	ND	2.22	0.726	01/24/23 09:48	
Isopropylbenzene (Cumene)	ug/m3	ND	0.983	0.382	01/24/23 09:48	
Methylene Chloride	ug/m3	ND	0.694	0.340	01/24/23 09:48	
2-Hexanone	ug/m3	ND	5.11	0.544	01/24/23 09:48	
2-Butanone (MEK)	ug/m3	ND	3.69	0.240	01/24/23 09:48	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	5.12	0.313	01/24/23 09:48	
Methyl methacrylate	ug/m3	ND	0.819	0.359	01/24/23 09:48	
Methyl-tert-butyl ether	ug/m3	ND	0.721	0.233	01/24/23 09:48	
Naphthalene	ug/m3	ND	3.30	1.83	01/24/23 09:48	
2-Propanol	ug/m3	ND	3.07	0.649	01/24/23 09:48	
Propylene	ug/m3	ND	2.15	0.160	01/24/23 09:48	
Styrene	ug/m3	ND	0.851	0.335	01/24/23 09:48	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.37	0.511	01/24/23 09:48	
Tetrachloroethene	ug/m3	ND	1.36	0.553	01/24/23 09:48	
Tetrahydrofuran	ug/m3	ND	0.590	0.216	01/24/23 09:48	
Toluene	ug/m3	ND	1.88	0.328	01/24/23 09:48	
1,2,4-Trichlorobenzene	ug/m3	ND	4.66	1.10	01/24/23 09:48	
1,1,1-Trichloroethane	ug/m3	ND	1.09	0.400	01/24/23 09:48	
1,1,2-Trichloroethane	ug/m3	ND	1.09	0.422	01/24/23 09:48	
Trichloroethene	ug/m3	ND	1.07	0.364	01/24/23 09:48	
1,2,4-Trimethylbenzene	ug/m3	ND	0.982	0.375	01/24/23 09:48	
1,3,5-Trimethylbenzene	ug/m3	ND	0.982	0.382	01/24/23 09:48	
2,2,4-Trimethylpentane	ug/m3	ND	0.934	0.621	01/24/23 09:48	
Vinyl chloride	ug/m3	ND	0.511	0.243	01/24/23 09:48	
Vinyl bromide	ug/m3	ND	0.875	0.373	01/24/23 09:48	
Vinyl acetate	ug/m3	ND	0.704	0.408	01/24/23 09:48	
m&p-Xylene	ug/m3	ND	1.73	0.585	01/24/23 09:48	
o-Xylene	ug/m3	ND	0.867	0.359	01/24/23 09:48	
1,4-Dichlorobenzene-d4 (IS)	%	103	60.0-140		01/24/23 09:48	

LABORATORY CONTROL SAMPLE & LCSD: R3883929-1

R3883929-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ug/m3	8.91	9.84	9.93	110	111	70.0-130	0.962	25	
Allyl chloride	ug/m3	11.7	12.6	12.9	108	110	70.0-130	1.96	25	
Benzene	ug/m3	12.0	12.6	12.6	105	105	70.0-130	0.00	25	
Benzyl chloride	ug/m3	19.5	18.6	18.3	95.7	93.9	70.0-152	1.97	25	
Bromodichloromethane	ug/m3	25.2	26.6	26.8	106	107	70.0-130	0.753	25	
Bromoform	ug/m3	38.8	36.7	36.1	94.7	93.1	70.0-130	1.70	25	
Bromomethane	ug/m3	14.6	16.6	16.1	114	111	70.0-130	3.08	25	
1,3-Butadiene	ug/m3	8.30	9.34	9.36	113	113	70.0-130	0.237	25	
Carbon disulfide	ug/m3	11.7	13.5	13.6	116	117	70.0-130	0.689	25	
Carbon tetrachloride	ug/m3	23.6	23.9	24.2	101	102	70.0-130	1.05	25	
Chlorobenzene	ug/m3	17.3	18.3	18.0	105	104	70.0-130	1.27	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Bristol VA
Pace Project No.: 92648496

LABORATORY CONTROL SAMPLE & LCSD: R3883929-1			R3883929-2							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroethane	ug/m3	9.89	10.7	10.7	108	108	70.0-130	0.494	25	
Chloroform	ug/m3	18.3	19.2	19.7	105	108	70.0-130	2.25	25	
Chloromethane	ug/m3	7.75	8.92	9.01	115	116	70.0-130	0.922	25	
2-Chlorotoluene	ug/m3	19.3	20.6	20.8	106	107	70.0-130	0.998	25	
Cyclohexane	ug/m3	12.9	13.3	13.7	103	106	70.0-130	3.57	25	
Dibromochloromethane	ug/m3	31.9	33.2	32.9	104	103	70.0-130	0.772	25	
1,2-Dibromoethane (EDB)	ug/m3	28.8	30.5	30.2	106	105	70.0-130	1.01	25	
1,2-Dichlorobenzene	ug/m3	22.5	23.4	23.4	104	104	70.0-130	0.00	25	
1,3-Dichlorobenzene	ug/m3	22.5	23.4	23.1	104	102	70.0-130	1.55	25	
1,4-Dichlorobenzene	ug/m3	22.5	23.1	22.8	102	101	70.0-130	1.31	25	
1,2-Dichloroethane	ug/m3	15.2	15.6	15.8	103	104	70.0-130	1.03	25	
1,1-Dichloroethane	ug/m3	15.0	17.5	17.4	116	116	70.0-130	0.230	25	
1,1-Dichloroethene	ug/m3	14.9	16.5	17.0	111	114	70.0-130	2.84	25	
cis-1,2-Dichloroethene	ug/m3	14.9	15.7	16.1	105	108	70.0-130	2.75	25	
trans-1,2-Dichloroethene	ug/m3	14.9	17.0	17.2	115	116	70.0-130	1.16	25	
1,2-Dichloropropane	ug/m3	17.3	18.4	18.7	106	108	70.0-130	1.49	25	
cis-1,3-Dichloropropene	ug/m3	17.0	19.8	18.1	117	106	70.0-130	9.34	25	
trans-1,3-Dichloropropene	ug/m3	17.0	18.0	18.2	106	107	70.0-130	0.753	25	
1,4-Dioxane (p-Dioxane)	ug/m3	13.5	14.3	13.8	106	102	70.0-140	3.84	25	
Ethanol	ug/m3	7.07	7.81	7.86	110	111	55.0-148	0.722	25	
Ethylbenzene	ug/m3	16.3	17.0	17.2	105	106	70.0-130	1.27	25	
Ethyl acetate	ug/m3	13.5	14.5	14.1	108	105	70.0-130	3.02	25	
4-Ethyltoluene	ug/m3	18.4	19.4	19.2	105	105	70.0-130	0.762	25	
Trichlorofluoromethane	ug/m3	21.1	23.2	23.9	110	113	70.0-130	2.86	25	
Dichlorodifluoromethane	ug/m3	18.5	19.9	20.6	107	111	64.0-139	3.41	25	
1,1,2-Trichlorotrifluoroethane	ug/m3	28.7	33.2	33.8	115	118	70.0-130	1.83	25	
Dichlorotetrafluoroethane	ug/m3	26.2	29.8	30.0	114	114	70.0-130	0.702	25	
n-Heptane	ug/m3	15.3	15.7	15.7	103	103	70.0-130	0.00	25	
Hexachloro-1,3-butadiene	ug/m3	40.0	40.8	38.5	102	96.3	70.0-151	5.65	25	
n-Hexane	ug/m3	13.2	13.6	13.9	103	105	70.0-130	2.05	25	
Isopropylbenzene (Cumene)	ug/m3	18.4	19.5	18.9	106	102	70.0-130	3.33	25	
Methylene Chloride	ug/m3	13.0	14.5	14.9	112	114	70.0-130	2.36	25	
2-Hexanone	ug/m3	15.3	16.4	15.6	107	102	70.0-149	5.12	25	
2-Butanone (MEK)	ug/m3	11.1	12.2	11.2	110	101	70.0-130	8.83	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	15.4	15.1	14.6	98.1	94.9	70.0-139	3.31	25	
Methyl methacrylate	ug/m3	15.4	16.0	15.4	104	100	70.0-130	3.66	25	
Methyl-tert-butyl ether	ug/m3	13.5	15.2	14.5	113	107	70.0-130	4.84	25	
Naphthalene	ug/m3	19.6	19.2	19.1	97.9	97.3	70.0-159	0.546	25	
2-Propanol	ug/m3	9.22	10.1	9.96	109	108	70.0-139	1.23	25	
Propylene	ug/m3	6.46	6.65	6.59	103	102	64.0-144	0.780	25	
Styrene	ug/m3	16.0	17.3	16.5	108	103	70.0-130	4.53	25	
1,1,2,2-Tetrachloroethane	ug/m3	25.8	27.8	27.6	108	107	70.0-130	0.743	25	
Tetrachloroethene	ug/m3	25.5	25.3	26.0	99.2	102	70.0-130	2.91	25	
Tetrahydrofuran	ug/m3	11.1	11.7	11.2	106	102	70.0-137	4.11	25	
Toluene	ug/m3	14.1	15.4	14.9	109	106	70.0-130	3.23	25	
1,2,4-Trichlorobenzene	ug/m3	27.8	27.4	27.0	98.7	97.3	70.0-160	1.36	25	
1,1,1-Trichloroethane	ug/m3	20.4	21.4	21.6	105	106	70.0-130	0.759	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Bristol VA

Pace Project No.: 92648496

LABORATORY CONTROL SAMPLE & LCSD: R3883929-1			R3883929-2							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2-Trichloroethane	ug/m3	20.4	21.3	20.6	105	101	70.0-130	3.64	25	
Trichloroethene	ug/m3	20.1	21.4	21.6	106	108	70.0-130	1.25	25	
1,2,4-Trimethylbenzene	ug/m3	18.4	18.7	19.5	102	106	70.0-130	4.10	25	
1,3,5-Trimethylbenzene	ug/m3	18.4	19.0	18.9	103	103	70.0-130	0.517	25	
2,2,4-Trimethylpentane	ug/m3	17.5	18.7	19.1	107	109	70.0-130	1.98	25	
Vinyl chloride	ug/m3	9.59	11.1	11.1	116	116	70.0-130	0.230	25	
Vinyl bromide	ug/m3	16.4	17.9	18.4	109	112	70.0-130	2.89	25	
Vinyl acetate	ug/m3	13.2	13.1	13.2	98.9	100	70.0-130	1.07	25	
m&p-Xylene	ug/m3	32.5	35.2	34.6	108	106	70.0-130	1.86	25	
o-Xylene	ug/m3	16.3	17.3	17.3	106	106	70.0-130	0.251	25	
1,4-Dichlorobenzene-d4 (IS)	%				102	103	60.0-140			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: City of Bristol VA
Pace Project No.: 92648496

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Bristol VA

Pace Project No.: 92648496

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648496001	January 24hr Sample	TO-15	1993821	TO-15	1993821

REPORT OF LABORATORY ANALYSIS

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Company Name/Address:
Pace Analytical - Huntersville, NC
9800 Kinney Avenue, Suite 100
Huntersville, NC 28078

Billing Information:
Accounts Payable
9800 Kinney Ave., St
Huntersville, NC 28078

W0#: 92648496

92648496

Report To:
Sara Poulson

Email To:
Sara.Poulson@pacelabs.com; bonnie.vang@pacelabs.com

Project City of Bristol
Description:

City/State
Collected:

Bristol VA

Please Circle:
PT MT CT ET

Phone:
704-875-9092

Client Project #

Lab Project #

PACE-POULSONVA

P.O. #

92648496

Collected by (print):
Franklin D Cochran II

Site/Facility ID #

001

Rush? (Lab MUST Be Notified)
____ Same Day ____ Three Day
____ Next Day ____ Five Day
____ Two Day

Date Results Needed

260412

Sample ID

Can #

Flow Cont. #

Date

Time

Initial

Final

TO-15 Summa

JANUARY 24th Sample 010422

010035

1/20/12

10:14am

276g

34g

X

Remarks:
For Franklin D Cochran II - City of Bristol - Reporting through Pace-NC

Relinquished by: (Signature)
260412

Date:

Time:

Samples returned via:
____ UPS ____ FedEx ____ Courier

Tracking #

Hold #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Date:

Time:

Condition: (lab use only)

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

COC Seal Intact: ____ Y ____ N ____ NA

NCE:

Chen

1/24/12

0900

Chain of Custody Page ____ of ____

Pace
PEOPLE ADVANCING SCIENCE
MT JULIET, TN

12065 Lakewood Road, Mt Juliet, TN 37122
Phone: 615-758-4838 Alt: 615-752-3490
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance
of the Pace Terms and Conditions found at:
<http://static.paceanalytical.com/html/pac-standard-template.pdf>

SDG #

L1936069

K179

Accrual: PACE

Template: T210823

Prelogin: P970980

PM: 464 - Nancy McLean

Shipped Via: **FedEx Ground**

Rem./Contaminant: **ea** Sample # (lab only): **01**