

**ATTACHMENT 3
SAMPLING RESULTS
(NOVEMBER 24-HOUR SAMPLE)**

November 16, 2022

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

RE: Project: City of Bristol VA
Pace Project No.: 92636427

Dear David Cochran:

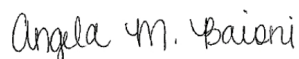
Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



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

Enclosures

cc: Logan Howard, SCS Engineers
Mike Martin, City of Bristol VA
Ms. Jennifer Robb, SCS Engineers



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: City of Bristol VA

Pace Project No.: 92636427

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 Mold Certification #: LAB0152

Texas Certification #: T 104704245-17-14

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.: 92636427

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92636427001	November 24hr 010430	Air	11/07/22 09:58	11/09/22 10:30

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SAMPLE ANALYTE COUNT

Project: City of Bristol VA

Pace Project No.: 92636427

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92636427001	November 24hr 010430	TO-15	CEP	68	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.: 92636427

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92636427001	November 24hr 010430					
TO-15	Acetone	13.7	ug/m3	2.97	11/11/22 00:57	
TO-15	Benzene	13.5	ug/m3	0.639	11/11/22 00:57	
TO-15	Chloromethane	1.32	ug/m3	0.413	11/11/22 00:57	
TO-15	Ethanol	21.9	ug/m3	2.36	11/11/22 00:57	
TO-15	Ethylbenzene	2.01	ug/m3	0.867	11/11/22 00:57	
TO-15	Trichlorofluoromethane	1.19	ug/m3	1.12	11/11/22 00:57	
TO-15	Dichlorodifluoromethane	2.15	ug/m3	0.989	11/11/22 00:57	
TO-15	Methylene Chloride	0.708	ug/m3	0.694	11/11/22 00:57	
TO-15	2-Propanol	5.48	ug/m3	3.07	11/11/22 00:57	
TO-15	Propylene	2.79	ug/m3	2.15	11/11/22 00:57	B
TO-15	Toluene	2.64	ug/m3	1.88	11/11/22 00:57	
TO-15	m&p-Xylene	2.10	ug/m3	1.73	11/11/22 00:57	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: City of Bristol VA

Pace Project No.: 92636427

Method: TO-15

Description: VOA (MS) TO-15

Client: City of Bristol VA

Date: November 16, 2022

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.

QC Batch: 1957435

B: Analyte was detected in the associated method blank.

- R3859674-3 (Lab ID: R3859674-3)
- Propylene

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.: 92636427

Sample: November 24hr 010430 **Lab ID: 92636427001** Collected: 11/07/22 09:58 Received: 11/09/22 10:30 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
VOA (MS) TO-15									
Analytical Method: TO-15 Preparation Method: TO-15									
Pace National - Mt. Juliet									
Acetone	13.7	ug/m3	2.97	0.5840	1	11/11/22 00:57	11/11/22 00:57	67-64-1	
Allyl chloride	ND	ug/m3	0.626	0.1140	1	11/11/22 00:57	11/11/22 00:57	107-05-1	
Benzene	13.5	ug/m3	0.639	0.0715	1	11/11/22 00:57	11/11/22 00:57	71-43-2	
Benzyl chloride	ND	ug/m3	1.04	0.0598	1	11/11/22 00:57	11/11/22 00:57	100-44-7	
Bromodichloromethane	ND	ug/m3	1.34	0.0702	1	11/11/22 00:57	11/11/22 00:57	75-27-4	
Bromoform	ND	ug/m3	6.21	0.0732	1	11/11/22 00:57	11/11/22 00:57	75-25-2	
Bromomethane	ND	ug/m3	0.776	0.0982	1	11/11/22 00:57	11/11/22 00:57	74-83-9	
1,3-Butadiene	ND	ug/m3	4.43	0.1040	1	11/11/22 00:57	11/11/22 00:57	106-99-0	
Carbon disulfide	ND	ug/m3	0.622	0.1020	1	11/11/22 00:57	11/11/22 00:57	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.26	0.0732	1	11/11/22 00:57	11/11/22 00:57	56-23-5	
Chlorobenzene	ND	ug/m3	0.924	0.0832	1	11/11/22 00:57	11/11/22 00:57	108-90-7	
Chloroethane	ND	ug/m3	0.528	0.0996	1	11/11/22 00:57	11/11/22 00:57	75-00-3	
Chloroform	ND	ug/m3	0.973	0.0717	1	11/11/22 00:57	11/11/22 00:57	67-66-3	
Chloromethane	1.32	ug/m3	0.413	0.1030	1	11/11/22 00:57	11/11/22 00:57	74-87-3	
2-Chlorotoluene	ND	ug/m3	1.03	0.0828	1	11/11/22 00:57	11/11/22 00:57	95-49-8	
Cyclohexane	ND	ug/m3	0.689	0.0753	1	11/11/22 00:57	11/11/22 00:57	110-82-7	
Dibromochloromethane	ND	ug/m3	1.70	0.0727	1	11/11/22 00:57	11/11/22 00:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.54	0.0721	1	11/11/22 00:57	11/11/22 00:57	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.20	0.1280	1	11/11/22 00:57	11/11/22 00:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.20	0.1820	1	11/11/22 00:57	11/11/22 00:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.20	0.0557	1	11/11/22 00:57	11/11/22 00:57	106-46-7	
1,2-Dichloroethane	ND	ug/m3	0.810	0.07	1	11/11/22 00:57	11/11/22 00:57	107-06-2	
1,1-Dichloroethane	ND	ug/m3	0.802	0.0723	1	11/11/22 00:57	11/11/22 00:57	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.793	0.0762	1	11/11/22 00:57	11/11/22 00:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.793	0.0784	1	11/11/22 00:57	11/11/22 00:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.793	0.0673	1	11/11/22 00:57	11/11/22 00:57	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.924	0.0760	1	11/11/22 00:57	11/11/22 00:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.908	0.0689	1	11/11/22 00:57	11/11/22 00:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.908	0.0728	1	11/11/22 00:57	11/11/22 00:57	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.721	0.0833	1	11/11/22 00:57	11/11/22 00:57	123-91-1	
Ethanol	21.9	ug/m3	2.36	0.2650	1	11/11/22 00:57	11/11/22 00:57	64-17-5	
Ethylbenzene	2.01	ug/m3	0.867	0.0835	1	11/11/22 00:57	11/11/22 00:57	100-41-4	
4-Ethyltoluene	ND	ug/m3	0.982	0.0783	1	11/11/22 00:57	11/11/22 00:57	622-96-8	
Trichlorofluoromethane	1.19	ug/m3	1.12	0.0819	1	11/11/22 00:57	11/11/22 00:57	75-69-4	
Dichlorodifluoromethane	2.15	ug/m3	0.989	0.1370	1	11/11/22 00:57	11/11/22 00:57	75-71-8	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.53	0.0793	1	11/11/22 00:57	11/11/22 00:57	76-13-1	
Dichlorotetrafluoroethane	ND	ug/m3	1.40	0.0890	1	11/11/22 00:57	11/11/22 00:57	76-14-2	
n-Heptane	ND	ug/m3	0.818	0.1040	1	11/11/22 00:57	11/11/22 00:57	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	6.73	0.1050	1	11/11/22 00:57	11/11/22 00:57	87-68-3	
n-Hexane	ND	ug/m3	2.22	0.2060	1	11/11/22 00:57	11/11/22 00:57	110-54-3	
Isopropylbenzene (Cumene)	ND	ug/m3	0.983	0.0777	1	11/11/22 00:57	11/11/22 00:57	98-82-8	
Methylene Chloride	0.708	ug/m3	0.694	0.0979	1	11/11/22 00:57	11/11/22 00:57	75-09-2	
2-Hexanone	ND	ug/m3	5.11	0.1330	1	11/11/22 00:57	11/11/22 00:57	591-78-6	
2-Butanone (MEK)	ND	ug/m3	3.69	0.0814	1	11/11/22 00:57	11/11/22 00:57	78-93-3	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.12	0.0765	1	11/11/22 00:57	11/11/22 00:57	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of Bristol VA

Pace Project No.: 92636427

Sample: November 24hr 010430		Lab ID: 92636427001		Collected: 11/07/22 09:58		Received: 11/09/22 10:30		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							
Methyl methacrylate	ND	ug/m3	0.819	0.0876	1	11/11/22 00:57	11/11/22 00:57	80-62-6	
Methyl-tert-butyl ether	ND	ug/m3	0.721	0.0647	1	11/11/22 00:57	11/11/22 00:57	1634-04-4	
Naphthalene	ND	ug/m3	3.30	0.35	1	11/11/22 00:57	11/11/22 00:57	91-20-3	
2-Propanol	5.48	ug/m3	3.07	0.2640	1	11/11/22 00:57	11/11/22 00:57	67-63-0	
Propylene	2.79	ug/m3	2.15	0.0932	1	11/11/22 00:57	11/11/22 00:57	115-07-1	B
Styrene	ND	ug/m3	0.851	0.0788	1	11/11/22 00:57	11/11/22 00:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.37	0.0743	1	11/11/22 00:57	11/11/22 00:57	79-34-5	
Tetrachloroethene	ND	ug/m3	1.36	0.0814	1	11/11/22 00:57	11/11/22 00:57	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.590	0.0734	1	11/11/22 00:57	11/11/22 00:57	109-99-9	
Toluene	2.64	ug/m3	1.88	0.0870	1	11/11/22 00:57	11/11/22 00:57	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	4.66	0.1480	1	11/11/22 00:57	11/11/22 00:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.09	0.0736	1	11/11/22 00:57	11/11/22 00:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.09	0.0775	1	11/11/22 00:57	11/11/22 00:57	79-00-5	
Trichloroethene	ND	ug/m3	1.07	0.0680	1	11/11/22 00:57	11/11/22 00:57	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	0.982	0.0764	1	11/11/22 00:57	11/11/22 00:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.982	0.0779	1	11/11/22 00:57	11/11/22 00:57	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	0.934	0.1330	1	11/11/22 00:57	11/11/22 00:57	540-84-1	
Vinyl chloride	ND	ug/m3	0.511	0.0949	1	11/11/22 00:57	11/11/22 00:57	75-01-4	
Vinyl bromide	ND	ug/m3	0.875	0.0852	1	11/11/22 00:57	11/11/22 00:57	593-60-2	
Vinyl acetate	ND	ug/m3	0.704	0.1160	1	11/11/22 00:57	11/11/22 00:57	108-05-4	
m&p-Xylene	2.10	ug/m3	1.73	0.1350	1	11/11/22 00:57	11/11/22 00:57	179601-23-1	
o-Xylene	ND	ug/m3	0.867	0.0828	1	11/11/22 00:57	11/11/22 00:57	95-47-6	
Surrogates									
1,4-Dichlorobenzene-d4 (IS)	95.0	%	60.0-140		1	11/11/22 00:57	11/11/22 00:57	3855-82-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Bristol VA
Pace Project No.: 92636427

QC Batch:	1957435	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	VOA (MS) TO-15
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92636427001

METHOD BLANK:	R3859674-3	Matrix:	Air
Associated Lab Samples:	92636427001		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ppbv	ND	1.25	0.584	11/10/22 10:35	
Allyl chloride	ppbv	ND	0.200	0.114	11/10/22 10:35	
Benzene	ppbv	ND	0.200	0.0715	11/10/22 10:35	
Benzyl chloride	ppbv	ND	0.200	0.0598	11/10/22 10:35	
Bromodichloromethane	ppbv	ND	0.200	0.0702	11/10/22 10:35	
Bromoform	ppbv	ND	0.600	0.0732	11/10/22 10:35	
Bromomethane	ppbv	ND	0.200	0.0982	11/10/22 10:35	
1,3-Butadiene	ppbv	ND	2.00	0.104	11/10/22 10:35	
Carbon disulfide	ppbv	ND	0.200	0.102	11/10/22 10:35	
Carbon tetrachloride	ppbv	ND	0.200	0.0732	11/10/22 10:35	
Chlorobenzene	ppbv	ND	0.200	0.0832	11/10/22 10:35	
Chloroethane	ppbv	ND	0.200	0.0996	11/10/22 10:35	
Chloroform	ppbv	ND	0.200	0.0717	11/10/22 10:35	
Chloromethane	ppbv	ND	0.200	0.103	11/10/22 10:35	
2-Chlorotoluene	ppbv	ND	0.200	0.0828	11/10/22 10:35	
Cyclohexane	ppbv	ND	0.200	0.0753	11/10/22 10:35	
Dibromochloromethane	ppbv	ND	0.200	0.0727	11/10/22 10:35	
1,2-Dibromoethane (EDB)	ppbv	ND	0.200	0.0721	11/10/22 10:35	
1,2-Dichlorobenzene	ppbv	ND	0.200	0.128	11/10/22 10:35	
1,3-Dichlorobenzene	ppbv	ND	0.200	0.182	11/10/22 10:35	
1,4-Dichlorobenzene	ppbv	ND	0.200	0.0557	11/10/22 10:35	
1,2-Dichloroethane	ppbv	ND	0.200	0.0700	11/10/22 10:35	
1,1-Dichloroethane	ppbv	ND	0.200	0.0723	11/10/22 10:35	
1,1-Dichloroethene	ppbv	ND	0.200	0.0762	11/10/22 10:35	
cis-1,2-Dichloroethene	ppbv	ND	0.200	0.0784	11/10/22 10:35	
trans-1,2-Dichloroethene	ppbv	ND	0.200	0.0673	11/10/22 10:35	
1,2-Dichloropropane	ppbv	ND	0.200	0.0760	11/10/22 10:35	
cis-1,3-Dichloropropene	ppbv	ND	0.200	0.0689	11/10/22 10:35	
trans-1,3-Dichloropropene	ppbv	ND	0.200	0.0728	11/10/22 10:35	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.200	0.0833	11/10/22 10:35	
Ethanol	ppbv	0.414J	1.25	0.265	11/10/22 10:35	J
Ethylbenzene	ppbv	ND	0.200	0.0835	11/10/22 10:35	
4-Ethyltoluene	ppbv	ND	0.200	0.0783	11/10/22 10:35	
Trichlorofluoromethane	ppbv	ND	0.200	0.0819	11/10/22 10:35	
Dichlorodifluoromethane	ppbv	ND	0.200	0.137	11/10/22 10:35	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.200	0.0793	11/10/22 10:35	
Dichlorotetrafluoroethane	ppbv	ND	0.200	0.0890	11/10/22 10:35	
n-Heptane	ppbv	ND	0.200	0.104	11/10/22 10:35	
Hexachloro-1,3-butadiene	ppbv	ND	0.630	0.105	11/10/22 10:35	
n-Hexane	ppbv	ND	0.630	0.206	11/10/22 10:35	

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.: 92636427

METHOD BLANK: R3859674-3

Matrix: Air

Associated Lab Samples: 92636427001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ppbv	ND	0.200	0.0777	11/10/22 10:35	
Methylene Chloride	ppbv	ND	0.200	0.0979	11/10/22 10:35	
2-Hexanone	ppbv	ND	1.25	0.133	11/10/22 10:35	
2-Butanone (MEK)	ppbv	ND	1.25	0.0814	11/10/22 10:35	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	1.25	0.0765	11/10/22 10:35	
Methyl methacrylate	ppbv	ND	0.200	0.0876	11/10/22 10:35	
Methyl-tert-butyl ether	ppbv	ND	0.200	0.0647	11/10/22 10:35	
Naphthalene	ppbv	ND	0.630	0.350	11/10/22 10:35	
2-Propanol	ppbv	ND	1.25	0.264	11/10/22 10:35	
Propylene	ppbv	0.215J	1.25	0.0932	11/10/22 10:35	J
Styrene	ppbv	ND	0.200	0.0788	11/10/22 10:35	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.200	0.0743	11/10/22 10:35	
Tetrachloroethene	ppbv	ND	0.200	0.0814	11/10/22 10:35	
Tetrahydrofuran	ppbv	ND	0.200	0.0734	11/10/22 10:35	
Toluene	ppbv	ND	0.500	0.0870	11/10/22 10:35	
1,2,4-Trichlorobenzene	ppbv	ND	0.630	0.148	11/10/22 10:35	
1,1,1-Trichloroethane	ppbv	ND	0.200	0.0736	11/10/22 10:35	
1,1,2-Trichloroethane	ppbv	ND	0.200	0.0775	11/10/22 10:35	
Trichloroethene	ppbv	ND	0.200	0.0680	11/10/22 10:35	
1,2,4-Trimethylbenzene	ppbv	ND	0.200	0.0764	11/10/22 10:35	
1,3,5-Trimethylbenzene	ppbv	ND	0.200	0.0779	11/10/22 10:35	
2,2,4-Trimethylpentane	ppbv	ND	0.200	0.133	11/10/22 10:35	
Vinyl chloride	ppbv	ND	0.200	0.0949	11/10/22 10:35	
Vinyl bromide	ppbv	ND	0.200	0.0852	11/10/22 10:35	
Vinyl acetate	ppbv	ND	0.200	0.116	11/10/22 10:35	
m&p-Xylene	ppbv	ND	0.400	0.135	11/10/22 10:35	
o-Xylene	ppbv	ND	0.200	0.0828	11/10/22 10:35	
1,4-Dichlorobenzene-d4 (IS)	%	94.4	60.0-140		11/10/22 10:35	

LABORATORY CONTROL SAMPLE & LCSD: R3859674-1

R3859674-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ppbv	3.75	4.05	4.11	108	110	70.0-130	1.47	25	
Allyl chloride	ppbv	3.75	3.79	3.77	101	101	70.0-130	0.529	25	
Benzene	ppbv	3.75	3.79	3.79	101	101	70.0-130	0.00	25	
Benzyl chloride	ppbv	3.75	3.91	3.90	104	104	70.0-152	0.256	25	
Bromodichloromethane	ppbv	3.75	3.75	3.77	100	101	70.0-130	0.532	25	
Bromoform	ppbv	3.75	3.71	3.73	98.9	99.5	70.0-130	0.538	25	
Bromomethane	ppbv	3.75	3.15	3.17	84.0	84.5	70.0-130	0.633	25	
1,3-Butadiene	ppbv	3.75	3.30	3.43	88.0	91.5	70.0-130	3.86	25	
Carbon disulfide	ppbv	3.75	3.78	3.81	101	102	70.0-130	0.791	25	
Carbon tetrachloride	ppbv	3.75	3.60	3.64	96.0	97.1	70.0-130	1.10	25	
Chlorobenzene	ppbv	3.75	3.95	3.94	105	105	70.0-130	0.253	25	
Chloroethane	ppbv	3.75	4.09	4.13	109	110	70.0-130	0.973	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Bristol VA

Pace Project No.: 92636427

LABORATORY CONTROL SAMPLE & LCSD: R3859674-1			R3859674-2							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ppbv	3.75	3.73	3.78	99.5	101	70.0-130	1.33	25	
Chloromethane	ppbv	3.75	4.03	4.10	107	109	70.0-130	1.72	25	
2-Chlorotoluene	ppbv	3.75	3.85	3.89	103	104	70.0-130	1.03	25	
Cyclohexane	ppbv	3.75	3.66	3.74	97.6	99.7	70.0-130	2.16	25	
Dibromochloromethane	ppbv	3.75	3.90	3.85	104	103	70.0-130	1.29	25	
1,2-Dibromoethane (EDB)	ppbv	3.75	3.90	3.90	104	104	70.0-130	0.00	25	
1,2-Dichlorobenzene	ppbv	3.75	3.88	3.87	103	103	70.0-130	0.258	25	
1,3-Dichlorobenzene	ppbv	3.75	3.92	3.96	105	106	70.0-130	1.02	25	
1,4-Dichlorobenzene	ppbv	3.75	4.06	4.06	108	108	70.0-130	0.00	25	
1,2-Dichloroethane	ppbv	3.75	3.86	3.87	103	103	70.0-130	0.259	25	
1,1-Dichloroethane	ppbv	3.75	3.93	3.97	105	106	70.0-130	1.01	25	
1,1-Dichloroethene	ppbv	3.75	3.94	3.98	105	106	70.0-130	1.01	25	
cis-1,2-Dichloroethene	ppbv	3.75	3.97	4.05	106	108	70.0-130	2.00	25	
trans-1,2-Dichloroethene	ppbv	3.75	4.00	4.02	107	107	70.0-130	0.499	25	
1,2-Dichloropropane	ppbv	3.75	3.96	3.94	106	105	70.0-130	0.506	25	
cis-1,3-Dichloropropene	ppbv	3.75	3.72	3.71	99.2	98.9	70.0-130	0.269	25	
trans-1,3-Dichloropropene	ppbv	3.75	3.67	3.71	97.9	98.9	70.0-130	1.08	25	
1,4-Dioxane (p-Dioxane)	ppbv	3.75	3.64	3.66	97.1	97.6	70.0-140	0.548	25	
Ethanol	ppbv	3.75	4.16	4.11	111	110	55.0-148	1.21	25	
Ethylbenzene	ppbv	3.75	3.83	3.86	102	103	70.0-130	0.780	25	
4-Ethyltoluene	ppbv	3.75	3.83	3.85	102	103	70.0-130	0.521	25	
Trichlorofluoromethane	ppbv	3.75	3.69	3.77	98.4	101	70.0-130	2.14	25	
Dichlorodifluoromethane	ppbv	3.75	3.70	3.75	98.7	100	64.0-139	1.34	25	
1,1,2-Trichlorotrifluoroethane	ppbv	3.75	3.69	3.79	98.4	101	70.0-130	2.67	25	
Dichlorotetrafluoroethane	ppbv	3.75	3.72	3.82	99.2	102	70.0-130	2.65	25	
n-Heptane	ppbv	3.75	3.91	4.01	104	107	70.0-130	2.53	25	
Hexachloro-1,3-butadiene	ppbv	3.75	3.50	3.50	93.3	93.3	70.0-151	0.00	25	
n-Hexane	ppbv	3.75	4.07	4.09	109	109	70.0-130	0.490	25	
Isopropylbenzene (Cumene)	ppbv	3.75	3.73	3.76	99.5	100	70.0-130	0.801	25	
Methylene Chloride	ppbv	3.75	3.93	4.01	105	107	70.0-130	2.02	25	
2-Hexanone	ppbv	3.75	4.23	4.22	113	113	70.0-149	0.237	25	
2-Butanone (MEK)	ppbv	3.75	3.96	4.07	106	109	70.0-130	2.74	25	
4-Methyl-2-pentanone (MIBK)	ppbv	3.75	4.13	4.11	110	110	70.0-139	0.485	25	
Methyl methacrylate	ppbv	3.75	3.92	3.87	105	103	70.0-130	1.28	25	
Methyl-tert-butyl ether	ppbv	3.75	3.66	3.71	97.6	98.9	70.0-130	1.36	25	
Naphthalene	ppbv	3.75	3.71	3.76	98.9	100	70.0-159	1.34	25	
2-Propanol	ppbv	3.75	3.99	4.04	106	108	70.0-139	1.25	25	
Propylene	ppbv	3.75	3.90	4.03	104	107	64.0-144	3.28	25	
Styrene	ppbv	3.75	3.72	3.75	99.2	100	70.0-130	0.803	25	
1,1,2,2-Tetrachloroethane	ppbv	3.75	3.79	3.79	101	101	70.0-130	0.00	25	
Tetrachloroethene	ppbv	3.75	3.69	3.73	98.4	99.5	70.0-130	1.08	25	
Tetrahydrofuran	ppbv	3.75	3.93	4.04	105	108	70.0-137	2.76	25	
Toluene	ppbv	3.75	3.73	3.76	99.5	100	70.0-130	0.801	25	
1,2,4-Trichlorobenzene	ppbv	3.75	3.69	3.74	98.4	99.7	70.0-160	1.35	25	
1,1,1-Trichloroethane	ppbv	3.75	3.64	3.69	97.1	98.4	70.0-130	1.36	25	
1,1,2-Trichloroethane	ppbv	3.75	3.80	3.80	101	101	70.0-130	0.00	25	
Trichloroethene	ppbv	3.75	3.68	3.66	98.1	97.6	70.0-130	0.545	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Bristol VA

Pace Project No.: 92636427

LABORATORY CONTROL SAMPLE & LCSD: R3859674-1			R3859674-2							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ppbv	3.75	3.78	3.79	101	101	70.0-130	0.264	25	
1,3,5-Trimethylbenzene	ppbv	3.75	3.79	3.77	101	101	70.0-130	0.529	25	
2,2,4-Trimethylpentane	ppbv	3.75	3.96	4.01	106	107	70.0-130	1.25	25	
Vinyl chloride	ppbv	3.75	3.48	3.62	92.8	96.5	70.0-130	3.94	25	
Vinyl bromide	ppbv	3.75	3.71	3.79	98.9	101	70.0-130	2.13	25	
Vinyl acetate	ppbv	3.75	4.24	4.13	113	110	70.0-130	2.63	25	
m&p-Xylene	ppbv	7.50	7.61	7.70	101	103	70.0-130	1.18	25	
o-Xylene	ppbv	3.75	3.67	3.70	97.9	98.7	70.0-130	0.814	25	
1,4-Dichlorobenzene-d4 (IS)	%				96.3	96.1	60.0-140			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: City of Bristol VA
Pace Project No.: 92636427

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

B Analyte was detected in the associated method blank.

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.: 92636427

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92636427001	November 24hr 010430	TO-15	1957435	TO-15	1957435

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., Ste. 100
Huntersville, NC 28078

WO# : 92636427



CE
EVANCO SCIENCE
LET, TN

Report To:
Sara Poulson
Email To: Sara.Poulson@pacelabs.com

Project: **City of Bristol**
Description: **City/State Collected:**
Please Circle: PT MT CT EI

Phone: **704-875-9092**
Client Project #
Lab Project # **PACE-POULSONVA**

Collected By (print): **Franklin Gresham II**
Site/Facility ID # **001**
P.O. #

Collected By (signature): *[Signature]*
Rush? (Lab MUST Be Notified)
Same Day ☐ Three Day ☐
Next Day ☐ Five Day ☐
Two Day ☐

Sample ID **November 24th 010430**
Can # **020410**
Flow Cont. # **11/7/12**
Date **9:58am**
Time **29Hg**
Initial **5Hg**
Final **X**

TO-15 Summa

Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
RAD Screen <0.5 mB/mi: ☒ Y ☐ N
Amis

Remarks:

Relinquished by: (Signature) *[Signature]* Date: **11/8/12** Time: **10:00am**

Relinquished by: (Signature) *[Signature]* Date: **11/8/12** Time: **10:00am**

Relinquished by: (Signature) *[Signature]* Date: **11/8/12** Time: **10:00am**

Samples returned via:
UPS ☐ FedEx ☐ Courier ☐

Received by: (Signature) *[Signature]* Date: **11/9/12** Time: **1030**

Received by: (Signature) *[Signature]* Date: **11/9/12** Time: **1030**

SDG # **U1555680**
L-137
Actnum: **PACE**
Template: **T210823**
Prelogin: **P958701**
PMI: **B44 - Christ M Wagner**
PB: **MLC 11/14/12**
Shipped Via: **FedEx Ground**
Item/Contaminant: **001**
Sample # (lab only): **-01**