Pace Analytical Services, LLC
6701 Conference Drive
Raleigh, NC 27607
(919)834-4984

April 01, 2025

Mike Turner
City of Creedmoor
P O Box 765
Creedmoor, NC 27522

RE: Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

Dear Mike Turner:

Enclosed are the analytical results for sample(s) received by the laboratory on March 18, 2025. The results relate only to the samples included in this report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

- Pace National - Mt. Juliet
- Pace Analytical Services - Charlotte

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

Sincerely,

Terri Page
terri.page@pacelabs.com
336-904-4231
Project Manager

Enclosures

cc: Accounts Payable, City of Creedmoor

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CERTIFICATIONS

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

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

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92785722001	**FH#5**	EPA 552.2	HH	7	PASI-C
		EPA 200.8	UNP	1	PAN
		EPA 524.2	LMB	7	PASI-C
92785722002	**FH#39**	EPA 552.2	HH	7	PASI-C
		EPA 200.8	JPD	1	PAN
		EPA 524.2	LMB	7	PASI-C
92785722003	**FH#210**	EPA 552.2	HH	7	PASI-C
		EPA 200.8	JPD	1	PAN
		EPA 524.2	LMB	7	PASI-C
92785722004	**FH#98**	EPA 552.2	HH	7	PASI-C
		EPA 200.8	JPD	1	PAN
		EPA 524.2	LMB	7	PASI-C
92785722005	**FH#110**	EPA 200.8	JPD	1	PAN
		EPA 524.2	LMB	7	PASI-C
92785722006	**TRIP BLANK**	EPA 524.2	LMB	7	PASI-C

PAN = Pace National - Mt. Juliet
PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

Sample: FH#5 | **Lab ID: 92785722001** | Collected: 03/18/25 08:55 | Received: 03/18/25 16:00 | Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5522 Haloacetic Acids	Analytical Method: EPA 552.2 Preparation Method: EPA 552.2 Pace Analytical Services - Charlotte							
Dibromoacetic Acid	ND	mg/L	0.0010	1	03/20/25 11:33	03/21/25 10:43	631-64-1	
Dichloroacetic Acid	**0.024**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 10:43	79-43-6	
Haloacetic Acids (Total)	**0.049**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 10:43		
Monobromoacetic Acid	ND	mg/L	0.0010	1	03/20/25 11:33	03/21/25 10:43	79-08-3	
Monochloroacetic Acid	ND	mg/L	0.0020	1	03/20/25 11:33	03/21/25 10:43	79-11-8	
Trichloroacetic Acid	**0.025**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 10:43	76-03-9	
Surrogates								
2,3-Dibromopropanoic Acid (S)	113	%	70-130	1	03/20/25 11:33	03/21/25 10:43	600-05-5	
Metals (ICPMS) 200.8	Analytical Method: EPA 200.8 Preparation Method: 180.1 Pace National - Mt. Juliet							
Manganese	**0.00830**	mg/L	0.00500	1	03/25/25 16:06	03/25/25 20:14	7439-96-5	
524.2 MSV THM	Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Bromodichloromethane	**0.0058**	mg/L	0.0010	1		03/24/25 02:33	75-27-4	
Bromoform	ND	mg/L	0.0010	1		03/24/25 02:33	75-25-2	
Chloroform	**0.047**	mg/L	0.0010	1		03/24/25 02:33	67-66-3	
Dibromochloromethane	ND	mg/L	0.0010	1		03/24/25 02:33	124-48-1	
Total Trihalomethanes (Calc.)	**0.053**	mg/L	0.0010	1		03/24/25 02:33		
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		03/24/25 02:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		03/24/25 02:33	2199-69-1	

Sample: FH#39 | **Lab ID: 92785722002** | Collected: 03/18/25 09:20 | Received: 03/18/25 16:00 | Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5522 Haloacetic Acids	Analytical Method: EPA 552.2 Preparation Method: EPA 552.2 Pace Analytical Services - Charlotte							
Dibromoacetic Acid	ND	mg/L	0.0010	1	03/20/25 11:33	03/21/25 13:43	631-64-1	
Dichloroacetic Acid	**0.022**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 13:43	79-43-6	
Haloacetic Acids (Total)	**0.045**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 13:43		
Monobromoacetic Acid	ND	mg/L	0.0010	1	03/20/25 11:33	03/21/25 13:43	79-08-3	
Monochloroacetic Acid	ND	mg/L	0.0020	1	03/20/25 11:33	03/21/25 13:43	79-11-8	
Trichloroacetic Acid	**0.024**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 13:43	76-03-9	
Surrogates								
2,3-Dibromopropanoic Acid (S)	106	%	70-130	1	03/20/25 11:33	03/21/25 13:43	600-05-5	
Metals (ICPMS) 200.8	Analytical Method: EPA 200.8 Preparation Method: 180.1 Pace National - Mt. Juliet							
Manganese	**0.0398**	mg/L	0.00500	1	03/26/25 13:28	03/26/25 18:21	7439-96-5	

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ANALYTICAL RESULTS

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

Sample: FH#39 **Lab ID: 92785722002** Collected: 03/18/25 09:20 Received: 03/18/25 16:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV THM	Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Bromodichloromethane	**0.0059**	mg/L	0.0010	1		03/24/25 02:59	75-27-4	
Bromoform	ND	mg/L	0.0010	1		03/24/25 02:59	75-25-2	
Chloroform	**0.048**	mg/L	0.0010	1		03/24/25 02:59	67-66-3	
Dibromochloromethane	ND	mg/L	0.0010	1		03/24/25 02:59	124-48-1	
Total Trihalomethanes (Calc.)	**0.054**	mg/L	0.0010	1		03/24/25 02:59		
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		03/24/25 02:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130	1		03/24/25 02:59	2199-69-1	

Sample: FH#210 **Lab ID: 92785722003** Collected: 03/18/25 09:45 Received: 03/18/25 16:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5522 Haloacetic Acids	Analytical Method: EPA 552.2 Preparation Method: EPA 552.2 Pace Analytical Services - Charlotte							
Dibromoacetic Acid	ND	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:03	631-64-1	
Dichloroacetic Acid	**0.024**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:03	79-43-6	
Haloacetic Acids (Total)	**0.051**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:03		
Monobromoacetic Acid	ND	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:03	79-08-3	
Monochloroacetic Acid	ND	mg/L	0.0020	1	03/20/25 11:33	03/21/25 14:03	79-11-8	
Trichloroacetic Acid	**0.027**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:03	76-03-9	
Surrogates								
2,3-Dibromopropanoic Acid (S)	102	%	70-130	1	03/20/25 11:33	03/21/25 14:03	600-05-5	
Metals (ICPMS) 200.8	Analytical Method: EPA 200.8 Preparation Method: 180.1 Pace National - Mt. Juliet							
Manganese	**0.0290**	mg/L	0.00500	1	03/26/25 13:28	03/26/25 18:24	7439-96-5	
524.2 MSV THM	Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Bromodichloromethane	**0.0062**	mg/L	0.0010	1		03/24/25 03:25	75-27-4	
Bromoform	ND	mg/L	0.0010	1		03/24/25 03:25	75-25-2	
Chloroform	**0.055**	mg/L	0.0010	1		03/24/25 03:25	67-66-3	
Dibromochloromethane	ND	mg/L	0.0010	1		03/24/25 03:25	124-48-1	
Total Trihalomethanes (Calc.)	**0.061**	mg/L	0.0010	1		03/24/25 03:25		
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		03/24/25 03:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130	1		03/24/25 03:25	2199-69-1	

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ANALYTICAL RESULTS

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

Sample: FH#98 **Lab ID: 92785722004** Collected: 03/18/25 10:10 Received: 03/18/25 16:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5522 Haloacetic Acids	Analytical Method: EPA 552.2 Preparation Method: EPA 552.2							
	Pace Analytical Services - Charlotte							
Dibromoacetic Acid	ND	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:24	631-64-1	
Dichloroacetic Acid	**0.020**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:24	79-43-6	
Haloacetic Acids (Total)	**0.041**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:24		
Monobromoacetic Acid	ND	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:24	79-08-3	
Monochloroacetic Acid	ND	mg/L	0.0020	1	03/20/25 11:33	03/21/25 14:24	79-11-8	
Trichloroacetic Acid	**0.021**	mg/L	0.0010	1	03/20/25 11:33	03/21/25 14:24	76-03-9	
Surrogates								
2,3-Dibromopropanoic Acid (S)	96	%	70-130	1	03/20/25 11:33	03/21/25 14:24	600-05-5	
Metals (ICPMS) 200.8	Analytical Method: EPA 200.8 Preparation Method: 180.1							
	Pace National - Mt. Juliet							
Manganese	**0.0149**	mg/L	0.00500	1	03/26/25 13:28	03/26/25 17:46	7439-96-5	
524.2 MSV THM	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Bromodichloromethane	**0.0058**	mg/L	0.0010	1		03/24/25 03:51	75-27-4	
Bromoform	ND	mg/L	0.0010	1		03/24/25 03:51	75-25-2	
Chloroform	**0.048**	mg/L	0.0010	1		03/24/25 03:51	67-66-3	
Dibromochloromethane	ND	mg/L	0.0010	1		03/24/25 03:51	124-48-1	
Total Trihalomethanes (Calc.)	**0.054**	mg/L	0.0010	1		03/24/25 03:51		
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		03/24/25 03:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130	1		03/24/25 03:51	2199-69-1	

Sample: FH#110 **Lab ID: 92785722005** Collected: 03/18/25 10:35 Received: 03/18/25 16:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 200.8	Analytical Method: EPA 200.8 Preparation Method: 180.1							
	Pace National - Mt. Juliet							
Manganese	**0.127**	mg/L	0.00500	1	03/26/25 13:28	03/26/25 17:49	7439-96-5	
524.2 MSV THM	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Bromodichloromethane	**0.0060**	mg/L	0.0010	1		03/24/25 04:18	75-27-4	
Bromoform	ND	mg/L	0.0010	1		03/24/25 04:18	75-25-2	
Chloroform	**0.055**	mg/L	0.0010	1		03/24/25 04:18	67-66-3	
Dibromochloromethane	ND	mg/L	0.0010	1		03/24/25 04:18	124-48-1	
Total Trihalomethanes (Calc.)	**0.061**	mg/L	0.0010	1		03/24/25 04:18		
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		03/24/25 04:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		03/24/25 04:18	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

Sample: TRIP BLANK **Lab ID: 92785722006** Collected: 03/18/25 07:55 Received: 03/18/25 16:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV THM	Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Bromodichloromethane	ND	mg/L	0.0010	1		03/23/25 22:38	75-27-4	
Bromoform	ND	mg/L	0.0010	1		03/23/25 22:38	75-25-2	
Chloroform	ND	mg/L	0.0010	1		03/23/25 22:38	67-66-3	
Dibromochloromethane	ND	mg/L	0.0010	1		03/23/25 22:38	124-48-1	
Total Trihalomethanes (Calc.)	ND	mg/L	0.0010	1		03/23/25 22:38		
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		03/23/25 22:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130	1		03/23/25 22:38	2199-69-1	

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QUALITY CONTROL DATA

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

QC Batch: 923663 | Analysis Method: EPA 552.2
QC Batch Method: EPA 552.2 | Analysis Description: GCS 5522 Haloacetic Acids
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92785722001, 92785722002, 92785722003, 92785722004

METHOD BLANK: 4745459 Matrix: Water
Associated Lab Samples: 92785722001, 92785722002, 92785722003, 92785722004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromoacetic Acid	mg/L	ND	0.0010	03/21/25 09:43	
Dichloroacetic Acid	mg/L	ND	0.0010	03/21/25 09:43	
Haloacetic Acids (Total)	mg/L	ND	0.0010	03/21/25 09:43	
Monobromoacetic Acid	mg/L	ND	0.0010	03/21/25 09:43	
Monochloroacetic Acid	mg/L	ND	0.0020	03/21/25 09:43	
Trichloroacetic Acid	mg/L	ND	0.0010	03/21/25 09:43	
2,3-Dibromopropanoic Acid (S)	%	95	70-130	03/21/25 09:43	

LABORATORY CONTROL SAMPLE: 4745460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromoacetic Acid	mg/L	0.02	0.023	113	70-130	
Dichloroacetic Acid	mg/L	0.02	0.018	91	70-130	
Haloacetic Acids (Total)	mg/L	0.1	0.10	101	70-130	
Monobromoacetic Acid	mg/L	0.02	0.018	90	70-130	
Monochloroacetic Acid	mg/L	0.02	0.018	90	70-130	
Trichloroacetic Acid	mg/L	0.02	0.024	118	70-130	
2,3-Dibromopropanoic Acid (S)	%			123	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4745461 4745462

Parameter	Units	92785722001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Dibromoacetic Acid	mg/L	ND	0.02	0.02	0.021	0.023	103	111	70-130	8	
Dichloroacetic Acid	mg/L	0.024	0.02	0.02	0.027	0.029	14	27	70-130	10	M1
Haloacetic Acids (Total)	mg/L	0.049	0.1	0.1	0.12	0.13	68	77	70-130	8	
Monobromoacetic Acid	mg/L	ND	0.02	0.02	0.018	0.019	89	94	70-130	6	
Monochloroacetic Acid	mg/L	ND	0.02	0.02	0.019	0.020	97	98	70-130	2	M1
Trichloroacetic Acid	mg/L	0.025	0.02	0.02	0.032	0.035	36	52	70-130	10	M1
2,3-Dibromopropanoic Acid (S)	%						99	111	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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QUALITY CONTROL DATA

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

QC Batch: 2474049
QC Batch Method: 180.1
Analysis Method: EPA 200.8
Analysis Description: Metals (ICPMS) 200.8
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92785722001

METHOD BLANK: R4190920-1 Matrix: Drinking Water
Associated Lab Samples: 92785722001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese	mg/L	ND	0.00500	03/25/25 19:27	

LABORATORY CONTROL SAMPLE: R4190920-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	mg/L	0.0500	0.0499	99.8	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4190920-3 R4190920-4

Parameter	Units	L1837663-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Manganese	mg/L	ND	0.0500	0.0500	0.0484	0.0486	96.8	97.2	70.0-130	0.457	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

QC Batch: 2476512
QC Batch Method: 180.1
Analysis Method: EPA 200.8
Analysis Description: Metals (ICPMS) 200.8
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92785722002, 92785722003, 92785722004, 92785722005

METHOD BLANK: R4191489-1 Matrix: Drinking Water
Associated Lab Samples: 92785722002, 92785722003, 92785722004, 92785722005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese	mg/L	ND	0.00500	03/26/25 17:59	

LABORATORY CONTROL SAMPLE: R4191489-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	mg/L	0.0500	0.0519	104	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4191489-3 R4191489-4

Parameter	Units	L1837365-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Manganese	mg/L	0.00103	0.0500	0.0500	0.0465	0.0468	91.0	91.6	70.0-130	0.664	

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.

Pace Analytical Services, LLC
6701 Conference Drive
Raleigh, NC 27607
(919)834-4984

QUALITY CONTROL DATA

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

QC Batch: 924281 | Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 | Analysis Description: 524.2 MSV THM
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92785722001, 92785722002, 92785722003, 92785722004, 92785722005, 92785722006

METHOD BLANK: 4748659 Matrix: Water
Associated Lab Samples: 92785722001, 92785722002, 92785722003, 92785722004, 92785722005, 92785722006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromodichloromethane	mg/L	ND	0.0010	03/23/25 21:19	
Bromoform	mg/L	ND	0.0010	03/23/25 21:19	
Chloroform	mg/L	ND	0.0010	03/23/25 21:19	
Dibromochloromethane	mg/L	ND	0.0010	03/23/25 21:19	
Total Trihalomethanes (Calc.)	mg/L	ND	0.0010	03/23/25 21:19	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	03/23/25 21:19	
4-Bromofluorobenzene (S)	%	103	70-130	03/23/25 21:19	

LABORATORY CONTROL SAMPLE: 4748660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	mg/L	0.02	0.021	106	70-130	
Bromoform	mg/L	0.02	0.019	94	70-130	
Chloroform	mg/L	0.02	0.021	105	70-130	
Dibromochloromethane	mg/L	0.02	0.020	98	70-130	
Total Trihalomethanes (Calc.)	mg/L		0.081			
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			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

Pace Analytical Services, LLC
6701 Conference Drive
Raleigh, NC 27607
(919)834-4984

QUALIFIERS

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

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.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TOWN OF CREEDMOOR MONTHLY
Pace Project No.: 92785722

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92785722001	**FH#5**	EPA 552.2	923663	EPA 552.2	923899
92785722002	**FH#39**	EPA 552.2	923663	EPA 552.2	923899
92785722003	**FH#210**	EPA 552.2	923663	EPA 552.2	923899
92785722004	**FH#98**	EPA 552.2	923663	EPA 552.2	923899
92785722001	**FH#5**	180.1	2474049	EPA 200.8	2474049
92785722002	**FH#39**	180.1	2476512	EPA 200.8	2476512
92785722003	**FH#210**	180.1	2476512	EPA 200.8	2476512
92785722004	**FH#98**	180.1	2476512	EPA 200.8	2476512
92785722005	**FH#110**	180.1	2476512	EPA 200.8	2476512
92785722001	**FH#5**	EPA 524.2	924281		
92785722002	**FH#39**	EPA 524.2	924281		
92785722003	**FH#210**	EPA 524.2	924281		
92785722004	**FH#98**	EPA 524.2	924281		
92785722005	**FH#110**	EPA 524.2	924281		
92785722006	**TRIP BLANK**	EPA 524.2	924281		

Pace® Location Requested (City/State):
Pace Analytical Eden
205 East Meadow Road, Suite A
Eden, NC 27288

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92785722

92785722

Company Name: Creedmoor, City of
Street Address: P O Box 765, Creedmoor, NC 27522
Customer Project #:
Project Name: Monthly Water
Site Collection Info/Facility ID (as applicable): Fire Hydrants (5) Town of Creedmoor, NC
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Contact/Report To: Courtney Rieder
Phone #:
E-Mail: crieder@cityofcreedmoor.org
Cc E-Mail:
Invoice To: Accounts Payable
Invoice E-Mail: accountspayable@cityofcreedmoor.org
Purchase Order # (if applicable):
Quote #:
County / State origin of sample(s): North Carolina
Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No
Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other
DW PWSID # or WW Permit # as applicable:
Date Results Requested:
Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 | 6 | 6
Identify Container Preservative Type***: 2 | 8 | 11
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Alexis Davidson
AcctNum / Client ID:
Table #:
Profile / Template: 4848
Prelog / Bottle Ord. ID: EZ 3235711

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	200.8 MET ICPMS Drinking Water	524.2 MSV THM	5522 Haloacetic Acids	Sample Comment	Preservation non-conformance identified for sample.
Trip Blank	WT	Grab			3/18/25	07:55	2				2			
FH#5	DW	Grab			3/18/25	08:55	7			1	3	3	pH= 7.8su @ 12.2° Celsius	
FH#39	DW	Grab			3/18/25	09:20	7			1	3	3	pH= 7.9su @ 12.3° Celsius	
FH#210	DW	Grab			3/18/25	09:45	7			1	3	3	pH= 7.9su @ 12.6° Celsius	
FH#98	DW	Grab			3/18/25	10:10	7			1	3	3	pH= 7.8su @ 12.4° Celsius	
FH#110	DW	Grab			3/18/25	10:35	7			1	3	3	pH= 7.8su @ 13.2° Celsius	
Time= 3.75 hours total														
Mileage= 67 miles total														

Additional Instructions from Pace®: *FH = Fire Hydrant

Collected By: (Printed Name) Tyler Collier-PACE
Signature: Tyler Collier-PACE

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers	Thermometer ID	Correction Factor (°C)	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice
1	91T005	0.0	5.2	5.2	Y

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time
Tyler Collier-PACE	3/18/2025 / 16:00	[signature] Pace	3/18/25 16:00

Tracking Number:
Delivered by: [ ] In-Person [X] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
Pace Analytical Services	Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☒ **Mechanicsville** ☐ **Atlanta** ☐ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: City of Creedmoor

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other:_____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: MJW 3/18/25

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer:
☐ IR Gun ID: 91T005

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 5.2 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☒ No	☐ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: DW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☒ No	☐ N/A	10.
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____________ Date/Time: ____________

Project Manager SCURF Review: ____________ **Date:** ____________

Project Manager SRF Review: ____________ **Date:** ____________

Pace Analytical Services	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☒ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client City of Creedmoor Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1																		2											
2							1 ✓									3		3											
3							1 ✓									3		3											
4							1 ✓									3		3											
5							1 ✓									3		3											
6							1 ✓									3		3											
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.