



May 15, 2024

Shea Higney
City of Johnson City
PO Box 2466
Johnson City, TN 37605

RE: Project: BRUSH CREEK QUARTERLY
Pace Project No.: 92728166

Dear Shea Higney:

Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2024. 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
- Pace Analytical Services - Asheville

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

Sincerely,

Angela M. Baioni

Angela Baioni for
Ariel S Fitzgerald
ariel.fitzgerald@pacelabs.com
704-977-0945
Project Manager

Enclosures

cc: Mr. Aaron Mullins, City of Johnson City



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRUSH CREEK QUARTERLY
 Pace Project No.: 92728166

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

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
 Florida/NELAP Certification #: E87648
 North Carolina Drinking Water Certification #: 37712
 North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
 South Carolina Certification #: 99030001
 Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRUSH CREEK QUARTERLY
 Pace Project No.: 92728166

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: EFFLUENT GRAB		Lab ID: 92728166002		Collected: 05/01/24 08:00	Received: 05/01/24 11:23	Matrix: Water		
SVOA (GC/MS) 625.1								
Analytical Method: EPA 625.1 Preparation Method: 625.1								
Pace National - Mt. Juliet								
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	51-28-5	
2-Nitrophenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	87-86-5	
Phenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	108-95-2	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	67.2	%	15.0-314	1	05/07/24 06:45	05/09/24 05:40	4165-60-0	
2-Fluorobiphenyl (S)	57.0	%	22.0-127	1	05/07/24 06:45	05/09/24 05:40	321-60-8	
Terphenyl-d14 (S)	60.5	%	29.0-141	1	05/07/24 06:45	05/09/24 05:40	1718-51-0	
Phenol-d5 (S)	20.9	%	8.00-424	1	05/07/24 06:45	05/09/24 05:40	4165-62-2	
2-Fluorophenol (S)	29.4	%	10.0-120	1	05/07/24 06:45	05/09/24 05:40	367-12-4	
2,4,6-Tribromophenol (S)	66.1	%	10.0-153	1	05/07/24 06:45	05/09/24 05:40	118-79-6	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRUSH CREEK QUARTERLY

Pace Project No.: 92728166

Sample: EFFLUENT GRAB	Lab ID: 92728166002	Collected: 05/01/24 08:00	Received: 05/01/24 11:23	Matrix: Water				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual

SVOA (GC/MS) 625.1

Analytical Method: EPA 625.1 Preparation Method: 625.1

Pace National - Mt. Juliet

Acenaphthene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	83-32-9	
Acenaphthylene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	208-96-8	
Anthracene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	120-12-7	
Benizidine	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	92-87-5	R1
Benzo(a)anthracene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	50-32-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	101-55-3	
2-Chloronaphthalene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	7005-72-3	
Chrysene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	53-70-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	606-20-2	
1,2-Diphenylhydrazine	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	122-66-7	N2
Fluoranthene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	206-44-0	
Fluorene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	193-39-5	
Isophorone	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	78-59-1	
Naphthalene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	91-20-3	
Nitrobenzene	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	621-64-7	
Phenanthrene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	85-01-8	
Butylbenzylphthalate	ND	ug/L	3.00	1	05/07/24 06:45	05/09/24 05:40	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	1	05/07/24 06:45	05/09/24 05:40	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	1	05/07/24 06:45	05/09/24 05:40	84-74-2	
Diethylphthalate	ND	ug/L	3.00	1	05/07/24 06:45	05/09/24 05:40	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	1	05/07/24 06:45	05/09/24 05:40	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	1	05/07/24 06:45	05/09/24 05:40	117-84-0	
Pyrene	ND	ug/L	1.00	1	05/07/24 06:45	05/09/24 05:40	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	05/07/24 06:45	05/09/24 05:40	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRUSH CREEK QUARTERLY
 Pace Project No.: 92728166

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: EFFLUENT COMPOSITE Lab ID: 92728166001 Collected: 05/01/24 08:00 Received: 05/01/24 11:23 Matrix: Water								
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Rev 5.4 1994 Preparation Method: EPA 200.8 Rev 5.4 1994 Pace Analytical Services - Asheville								
Antimony	0.41J	ug/L	1.0	1	05/03/24 16:09	05/05/24 21:21	7440-36-0	
Silver	ND	ug/L	0.40	1	05/03/24 16:09	05/05/24 21:21	7440-22-4	
Total Nitrogen Calculation								
Analytical Method: TKN+NO3+NO2 Calculation Pace Analytical Services - Asheville								
Total Nitrogen	25.6	mg/L	0.040	1		05/14/24 15:10		
351.2 Total Kjeldahl Nitrogen								
Analytical Method: EPA 351.2 Rev 2.0 1993 Preparation Method: EPA 351.2 Rev 2.0 1993 Pace Analytical Services - Asheville								
Nitrogen, Kjeldahl, Total	2.1	mg/L	0.50	1	05/10/24 18:06	05/11/24 05:45	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.								
Analytical Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville								
Nitrogen, NO2 plus NO3	23.5	mg/L	0.20	5		05/14/24 11:42		M1
365.1 Phosphorus, Total								
Analytical Method: EPA 365.1 Rev 2.0 1993 Preparation Method: EPA 365.1 Rev 2.0 1993 Pace Analytical Services - Asheville								
Phosphorus	1.4	mg/L	0.050	1	05/10/24 15:48	05/13/24 11:10	7723-14-0	



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SAMPLE ANALYTE COUNT

Project: BRUSH CREEK QUARTERLY

Pace Project No.: 92728166

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92728166001	EFFLUENT COMPOSITE	EPA 200.8 Rev 5.4 1994	KRL	2	PASI-A
		TKN+NO3+NO2 Calculation	MDW	1	PASI-A
		EPA 351.2 Rev 2.0 1993	MFO	1	PASI-A
		EPA 353.2 Rev 2.0 1993	EGC	1	PASI-A
		EPA 365.1 Rev 2.0 1993	ZJP	1	PASI-A
92728166002	EFFLUENT GRAB	EPA 625.1	AGW	63	PAN

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRUSH CREEK QUARTERLY
 Pace Project No.: 92728166

QC Batch: 851966 Analysis Method: EPA 200.8 Rev 5.4 1994
 QC Batch Method: EPA 200.8 Rev 5.4 1994 Analysis Description: 200.8 MET
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92728166001

METHOD BLANK: 4397361 Matrix: Water
 Associated Lab Samples: 92728166001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	05/05/24 19:48	
Silver	ug/L	ND	0.40	05/05/24 19:48	

LABORATORY CONTROL SAMPLE: 4397362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	53.3	107	85-115	
Silver	ug/L	25	26.3	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4397363 4397364

Parameter	Units	92727098001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
Antimony	ug/L			50	50	53.1	52.8	106	105	70-130	1	
Silver	ug/L			25	25	25.7	25.3	103	101	70-130	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4397367 4397368

Parameter	Units	92726772003		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
Antimony	ug/L	1.2		50	50	54.9	54.6	107	107	70-130	1	
Silver	ug/L	ND		25	25	26.5	26.1	105	103	70-130	2	



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QUALITY CONTROL DATA

Project: BRUSH CREEK QUARTERLY
 Pace Project No.: 92728166

QC Batch: 2281042 Analysis Method: EPA 625.1
 QC Batch Method: 625.1 Analysis Description: SVOA (GC/MS) 625.1
 Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92728166002

METHOD BLANK: R4068415-3 Matrix: Water
 Associated Lab Samples: 92728166002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	1.00	05/09/24 02:05	
Acenaphthylene	ug/L	ND	1.00	05/09/24 02:05	
Anthracene	ug/L	ND	1.00	05/09/24 02:05	
Benzydine	ug/L	ND	10.0	05/09/24 02:05	
Benzo(a)anthracene	ug/L	ND	1.00	05/09/24 02:05	
Benzo(b)fluoranthene	ug/L	ND	1.00	05/09/24 02:05	
Benzo(k)fluoranthene	ug/L	ND	1.00	05/09/24 02:05	
Benzo(g,h,i)perylene	ug/L	ND	1.00	05/09/24 02:05	
Benzo(a)pyrene	ug/L	ND	1.00	05/09/24 02:05	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	05/09/24 02:05	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	05/09/24 02:05	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	05/09/24 02:05	
4-Bromophenylphenyl ether	ug/L	ND	10.0	05/09/24 02:05	
2-Chloronaphthalene	ug/L	ND	1.00	05/09/24 02:05	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	05/09/24 02:05	
Chrysene	ug/L	ND	1.00	05/09/24 02:05	
Dibenz(a,h)anthracene	ug/L	ND	1.00	05/09/24 02:05	
1,2-Dichlorobenzene	ug/L	ND	10.0	05/09/24 02:05	
1,3-Dichlorobenzene	ug/L	ND	10.0	05/09/24 02:05	
1,4-Dichlorobenzene	ug/L	ND	10.0	05/09/24 02:05	
3,3'-Dichlorobenzidine	ug/L	ND	10.0	05/09/24 02:05	
2,4-Dinitrotoluene	ug/L	ND	10.0	05/09/24 02:05	
2,6-Dinitrotoluene	ug/L	ND	10.0	05/09/24 02:05	
1,2-Diphenylhydrazine	ug/L	ND	10.0	05/09/24 02:05	N2
Fluoranthene	ug/L	ND	1.00	05/09/24 02:05	
Fluorene	ug/L	ND	1.00	05/09/24 02:05	
Hexachlorobenzene	ug/L	ND	1.00	05/09/24 02:05	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	05/09/24 02:05	
Hexachlorocyclopentadiene	ug/L	ND	10.0	05/09/24 02:05	
Hexachloroethane	ug/L	ND	10.0	05/09/24 02:05	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.00	05/09/24 02:05	
Isophorone	ug/L	ND	10.0	05/09/24 02:05	
Naphthalene	ug/L	ND	1.00	05/09/24 02:05	
Nitrobenzene	ug/L	ND	10.0	05/09/24 02:05	
N-Nitrosodimethylamine	ug/L	ND	10.0	05/09/24 02:05	
N-Nitrosodiphenylamine	ug/L	ND	10.0	05/09/24 02:05	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	05/09/24 02:05	
Phenanthrene	ug/L	ND	1.00	05/09/24 02:05	
Butylbenzylphthalate	ug/L	ND	3.00	05/09/24 02:05	
bis(2-Ethylhexyl)phthalate	ug/L	ND	3.00	05/09/24 02:05	

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QUALITY CONTROL DATA

Project: BRUSH CREEK QUARTERLY
 Pace Project No.: 92728166

METHOD BLANK: R4068415-3 Matrix: Water
 Associated Lab Samples: 92728166002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-butylphthalate	ug/L	ND	3.00	05/09/24 02:05	
Diethylphthalate	ug/L	ND	3.00	05/09/24 02:05	
Dimethylphthalate	ug/L	ND	3.00	05/09/24 02:05	
Di-n-octylphthalate	ug/L	ND	3.00	05/09/24 02:05	
Pyrene	ug/L	ND	1.00	05/09/24 02:05	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	05/09/24 02:05	
4-Chloro-3-methylphenol	ug/L	ND	10.0	05/09/24 02:05	
2-Chlorophenol	ug/L	ND	10.0	05/09/24 02:05	
2,4-Dichlorophenol	ug/L	ND	10.0	05/09/24 02:05	
2,4-Dimethylphenol	ug/L	ND	10.0	05/09/24 02:05	
4,6-Dinitro-2-methylphenol	ug/L	ND	10.0	05/09/24 02:05	
2,4-Dinitrophenol	ug/L	ND	10.0	05/09/24 02:05	
2-Nitrophenol	ug/L	ND	10.0	05/09/24 02:05	
4-Nitrophenol	ug/L	ND	10.0	05/09/24 02:05	
Pentachlorophenol	ug/L	ND	10.0	05/09/24 02:05	
Phenol	ug/L	ND	10.0	05/09/24 02:05	
2,4,6-Trichlorophenol	ug/L	ND	10.0	05/09/24 02:05	
Nitrobenzene-d5 (S)	%	81.4	15.0-314	05/09/24 02:05	
2-Fluorobiphenyl (S)	%	61.4	22.0-127	05/09/24 02:05	
Terphenyl-d14 (S)	%	61.4	29.0-141	05/09/24 02:05	
Phenol-d5 (S)	%	24.8	8.00-424	05/09/24 02:05	
2-Fluorophenol (S)	%	34.9	10.0-120	05/09/24 02:05	
2,4,6-Tribromophenol (S)	%	60.5	10.0-153	05/09/24 02:05	

LABORATORY CONTROL SAMPLE & LCSD: R4068415-1 R4068415-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	50.0	32.6	35.4	65.2	70.8	47.0-145	8.24	48	
Acenaphthylene	ug/L	50.0	34.8	35.8	69.6	71.6	33.0-145	2.83	74	
Anthracene	ug/L	50.0	37.2	38.3	74.4	76.6	27.0-133	2.91	66	
Benzidine	ug/L	100	20.7	3.84	20.7	3.84	1.00-120	137	36	R1
Benzo(a)anthracene	ug/L	50.0	36.5	35.1	73.0	70.2	33.0-143	3.91	53	
Benzo(b)fluoranthene	ug/L	50.0	37.5	36.8	75.0	73.6	24.0-159	1.88	71	
Benzo(k)fluoranthene	ug/L	50.0	35.9	34.2	71.8	68.4	11.0-162	4.85	63	
Benzo(g,h,i)perylene	ug/L	50.0	34.8	32.5	69.6	65.0	1.00-219	6.84	97	
Benzo(a)pyrene	ug/L	50.0	32.1	31.9	64.2	63.8	17.0-163	0.625	72	
bis(2-Chloroethoxy)methane	ug/L	50.0	35.7	36.9	71.4	73.8	1.00-219	3.31	54	
bis(2-Chloroethyl) ether	ug/L	50.0	33.0	33.7	66.0	67.4	33.0-185	2.10	108	
2,2'-Oxybis(1-chloropropane)	ug/L	50.0	27.4	26.2	54.8	52.4	36.0-166	4.48	76	
4-Bromophenylphenyl ether	ug/L	50.0	35.8	36.3	71.6	72.6	53.0-127	1.39	43	
2-Chloronaphthalene	ug/L	50.0	31.9	34.7	63.8	69.4	60.0-120	8.41	24	
4-Chlorophenylphenyl ether	ug/L	50.0	34.6	36.5	69.2	73.0	25.0-158	5.34	61	
Chrysene	ug/L	50.0	35.5	34.3	71.0	68.6	17.0-168	3.44	87	
Dibenz(a,h)anthracene	ug/L	50.0	33.9	32.8	67.8	65.6	1.00-227	3.30	126	

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QUALITY CONTROL DATA

Project: BRUSH CREEK QUARTERLY

Pace Project No.: 92728166

LABORATORY CONTROL SAMPLE & LCSD: R4068415-1			R4068415-2				% Rec Limits	RPD	Max RPD	Qualifiers
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
1,2-Dichlorobenzene	ug/L	50.0	28.0	28.5	56.0	57.0	27.0-120	1.77	30	
1,3-Dichlorobenzene	ug/L	50.0	27.5	28.3	55.0	56.6	26.0-120	2.87	31	
1,4-Dichlorobenzene	ug/L	50.0	29.6	30.0	59.2	60.0	26.0-120	1.34	30	
3,3'-Dichlorobenzidine	ug/L	100	74.4	71.1	74.4	71.1	1.00-262	4.54	108	
2,4-Dinitrotoluene	ug/L	50.0	36.4	36.1	72.8	72.2	39.0-139	0.828	42	
2,6-Dinitrotoluene	ug/L	50.0	35.8	36.8	71.6	73.6	50.0-158	2.75	48	
1,2-Diphenylhydrazine	ug/L	50.0	43.8	41.8	87.6	83.6	37.0-125	4.67	20	N2
Fluoranthene	ug/L	50.0	41.9	40.8	83.8	81.6	26.0-137	2.66	66	
Fluorene	ug/L	50.0	34.8	36.3	69.6	72.6	59.0-121	4.22	38	
Hexachlorobenzene	ug/L	50.0	32.7	32.4	65.4	64.8	1.00-152	0.922	55	
Hexachloro-1,3-butadiene	ug/L	50.0	32.8	36.4	65.6	72.8	24.0-120	10.4	62	
Hexachlorocyclopentadiene	ug/L	50.0	8.67	11.7	17.3	23.4	10.0-120	29.7	31	
Hexachloroethane	ug/L	50.0	32.7	34.0	65.4	68.0	40.0-120	3.90	52	
Indeno(1,2,3-cd)pyrene	ug/L	50.0	35.9	33.6	71.8	67.2	1.00-171	6.62	99	
Isophorone	ug/L	50.0	41.5	42.7	83.0	85.4	21.0-196	2.85	93	
Naphthalene	ug/L	50.0	29.3	30.6	58.6	61.2	21.0-133	4.34	65	
Nitrobenzene	ug/L	50.0	42.5	43.8	85.0	87.6	35.0-180	3.01	62	
N-Nitrosodimethylamine	ug/L	50.0	49.3	40.6	98.6	81.2	10.0-120	19.4	34	
N-Nitrosodiphenylamine	ug/L	50.0	33.2	34.5	66.4	69.0	44.0-120	3.84	21	
N-Nitroso-di-n-propylamine	ug/L	50.0	42.4	42.5	84.8	85.0	1.00-230	0.236	87	
Phenanthrene	ug/L	50.0	35.6	36.1	71.2	72.2	54.0-120	1.39	39	
Butylbenzylphthalate	ug/L	50.0	37.1	37.1	74.2	74.2	1.00-152	0.00	60	
bis(2-Ethylhexyl)phthalate	ug/L	50.0	34.1	32.7	68.2	65.4	8.00-158	4.19	82	
Di-n-butylphthalate	ug/L	50.0	43.2	43.0	86.4	86.0	1.00-120	0.464	47	
Diethylphthalate	ug/L	50.0	39.9	40.3	79.8	80.6	1.00-120	0.998	100	
Dimethylphthalate	ug/L	50.0	35.3	36.0	70.6	72.0	1.00-120	1.96	183	
Di-n-octylphthalate	ug/L	50.0	39.9	37.5	79.8	75.0	4.00-146	6.20	69	
Pyrene	ug/L	50.0	38.5	37.2	77.0	74.4	52.0-120	3.43	49	
1,2,4-Trichlorobenzene	ug/L	50.0	32.4	34.3	64.8	68.6	44.0-142	5.70	50	
4-Chloro-3-methylphenol	ug/L	50.0	35.9	33.3	71.8	66.6	22.0-147	7.51	73	
2-Chlorophenol	ug/L	50.0	25.3	24.4	50.6	48.8	23.0-134	3.62	61	
2,4-Dichlorophenol	ug/L	50.0	35.7	34.7	71.4	69.4	39.0-135	2.84	50	
2,4-Dimethylphenol	ug/L	50.0	31.8	30.3	63.6	60.6	32.0-120	4.83	58	
4,6-Dinitro-2-methylphenol	ug/L	50.0	38.3	38.0	76.6	76.0	1.00-181	0.786	203	
2,4-Dinitrophenol	ug/L	50.0	34.8	34.6	69.6	69.2	1.00-191	0.576	132	
2-Nitrophenol	ug/L	50.0	31.8	31.7	63.6	63.4	29.0-182	0.315	55	
4-Nitrophenol	ug/L	50.0	12.4	12.7	24.8	25.4	1.00-132	2.39	131	
Pentachlorophenol	ug/L	50.0	23.7	26.6	47.4	53.2	14.0-176	11.5	86	
Phenol	ug/L	50.0	14.5	14.9	29.0	29.8	5.00-120	2.72	64	
2,4,6-Trichlorophenol	ug/L	50.0	36.9	36.0	73.8	72.0	37.0-144	2.47	58	
Nitrobenzene-d5 (S)	%				81.6	81.6	15.0-314			
2-Fluorobiphenyl (S)	%				61.7	62.7	22.0-127			
Terphenyl-d14 (S)	%				61.2	58.6	29.0-141			
Phenol-d5 (S)	%				26.5	27.4	8.00-424			
2-Fluorophenol (S)	%				36.6	34.5	10.0-120			
2,4,6-Tribromophenol (S)	%				63.5	65.0	10.0-153			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRUSH CREEK QUARTERLY
 Pace Project No.: 92728166

QC Batch: 853682 Analysis Method: EPA 351.2 Rev 2.0 1993
 QC Batch Method: EPA 351.2 Rev 2.0 1993 Analysis Description: 351.2 TKN
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92728166001

METHOD BLANK: 4405285 Matrix: Water
 Associated Lab Samples: 92728166001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	05/11/24 05:37	

LABORATORY CONTROL SAMPLE: 4405286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4405287 4405288

Parameter	Units	92728314006 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	11.2	11.5	112	115	90-110	2	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4405289 4405290

Parameter	Units	92728314007 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	11.4	11.1	114	111	90-110	2	M1



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QUALITY CONTROL DATA

Project: BRUSH CREEK QUARTERLY
 Pace Project No.: 92728166

QC Batch: 854067 Analysis Method: EPA 353.2 Rev 2.0 1993
 QC Batch Method: EPA 353.2 Rev 2.0 1993 Analysis Description: 353.2 Nitrate + Nitrite, preserved
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92728166001

METHOD BLANK: 4406880 Matrix: Water
 Associated Lab Samples: 92728166001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.040	05/14/24 11:40	

LABORATORY CONTROL SAMPLE: 4406881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406882 4406883

Parameter	Units	92728166001		4406883		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Nitrogen, NO2 plus NO3	mg/L	23.5	2.5	2.5	25.2	24.6	69	42	90-110	3 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406884 4406885

Parameter	Units	92728173001		4406885		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Nitrogen, NO2 plus NO3	mg/L	4.7	2.5	2.5	6.7	6.4	82	68	90-110	5 M1

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QUALITY CONTROL DATA

Project: BRUSH CREEK QUARTERLY
 Pace Project No.: 92728166

QC Batch: 853380 Analysis Method: EPA 365.1 Rev 2.0 1993
 QC Batch Method: EPA 365.1 Rev 2.0 1993 Analysis Description: 365.1 Phosphorus, Total
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92728166001

METHOD BLANK: 4403713 Matrix: Water

Associated Lab Samples: 92728166001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	0.0049J	0.050	05/13/24 10:50	

LABORATORY CONTROL SAMPLE: 4403714

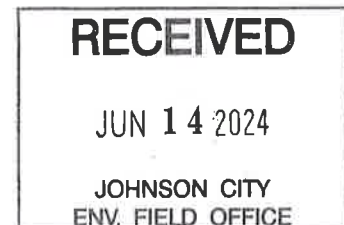
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4403715 4403716

Parameter	Units	92728153001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Phosphorus	mg/L	6.5	2.5	2.5	8.7	8.7	90	89	90-110	0	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4403717 4403718

Parameter	Units	92728197001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Phosphorus	mg/L	3.7	2.5	2.5	6.2	6.2	101	100	90-110	0	



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QUALIFIERS

Project: BRUSH CREEK QUARTERLY
Pace Project No.: 92728166

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

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	Analyte reported using a calibration and validation based on Azobenzene (CAS 103-33-3). 1,2-Diphenylhydrazine decomposes into Azobenzene during the analysis.
R1	RPD value was outside control limits.

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METHOD CROSS REFERENCE TABLE

Project: BRUSH CREEK QUARTERLY
Pace Project No.: 92728166

Parameter	Matrix	Analytical Method	Preparation Method
353.2 Nitrogen, NO ₂ /NO ₃ pres.	Water	EPA 353.2, Rev. 2.0 (1993)	N/A

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRUSH CREEK QUARTERLY
Pace Project No.: 92728166

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92728166001	EFFLUENT COMPOSITE	EPA 200.8 Rev 5.4 1994	851966	EPA 200.8 Rev 5.4 1994	852079
92728166002	EFFLUENT GRAB	625.1	2281042	EPA 625.1	2281042
92728166001	EFFLUENT COMPOSITE	TKN+NO3+NO2 Calculation	854466		
92728166001	EFFLUENT COMPOSITE	EPA 351.2 Rev 2.0 1993	853682	EPA 351.2 Rev 2.0 1993	853867
92728166001	EFFLUENT COMPOSITE	EPA 353.2 Rev 2.0 1993	854067		
92728166001	EFFLUENT COMPOSITE	EPA 365.1 Rev 2.0 1993	853380	EPA 365.1 Rev 2.0 1993	853804

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: City of Johnson City

Project #: **WO#: 92728166**



Courier: Fed Ex UPS USPS Other: Pace

Custody Seal Present? Yes No Seals Intact? Yes No N/A

Date/Initials Person Examining Contents: APSL/LSO

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 93T082 Type of Ice: Wet Blue None

Cooler Temp: 0.4 Correction Factor: Add/Subtract (°C) 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): 0.4

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

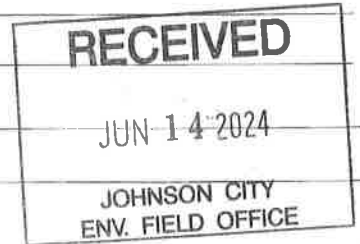
		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis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



DC#_ Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

WO# : 92728166

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: ASF

Due Date: 05/13/24

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 93-JOHNSONCI

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (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)		
1	/	/	/	/	✓	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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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).

