Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

September 27, 2018

Ms. Donna Lisenby
Waterkeeper Alliance
180 Maiden Lane
Suite 603
New York, NY 10038

RE: Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

Dear Ms. Lisenby:
Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
(828)254-7176
Project Manager

Enclosures

cc: Larissa Liebmann, Waterkeeper Alliance

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CERTIFICATIONS

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE ANALYTE COUNT

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92400377001	**001**	EPA 6010	SC1	2	PASI-O
		EPA 6020	FDV	14	PASI-O
		ASTM D2974-87	KDF	1	PASI-C
		EPA 7196A	MJP	1	PASI-A
92400377002	**002**	EPA 200.7	LEC	2	PASI-O
		EPA 200.8	FDV, KPP	14	PASI-O
		EPA 218.7 Rev 1.0 2011	CDC	1	PASI-A
92400377003	**003**	EPA 200.7	LEC	2	PASI-O
		EPA 200.8	FDV, KPP	14	PASI-O
		EPA 218.7 Rev 1.0 2011	CDC	1	PASI-A
92400377004	**003 SOIL**	EPA 6010	SC1	2	PASI-O
		EPA 6020	FDV	14	PASI-O
		ASTM D2974-87	KDF	1	PASI-C

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ANALYTICAL RESULTS

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

Sample: 001 **Lab ID: 92400377001** Collected: 09/19/18 13:31 Received: 09/20/18 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Boron	ND	mg/kg	5.3	1	09/25/18 15:20	09/25/18 21:23	7440-42-8	
Iron	**2200**	mg/kg	4.2	1	09/25/18 15:20	09/25/18 21:23	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Aluminum	**7720**	mg/kg	46.4	20	09/24/18 08:50	09/24/18 17:00	7429-90-5	N2
Arsenic	**12.9**	mg/kg	2.3	20	09/24/18 08:50	09/24/18 17:00	7440-38-2	
Cadmium	ND	mg/kg	0.28	20	09/24/18 08:50	09/24/18 17:00	7440-43-9	
Chromium	**7.4**	mg/kg	2.3	20	09/24/18 08:50	09/24/18 17:00	7440-47-3	
Cobalt	ND	mg/kg	2.3	20	09/24/18 08:50	09/24/18 17:00	7440-48-4	
Copper	**14.0**	mg/kg	4.6	20	09/24/18 08:50	09/24/18 17:00	7440-50-8	
Lead	**6.1**	mg/kg	2.3	20	09/24/18 08:50	09/24/18 17:00	7439-92-1	
Manganese	**28.3**	mg/kg	23.2	20	09/24/18 08:50	09/24/18 17:00	7439-96-5	
Nickel	**4.7**	mg/kg	2.3	20	09/24/18 08:50	09/24/18 17:00	7440-02-0	
Selenium	**3.2**	mg/kg	2.3	20	09/24/18 08:50	09/24/18 17:00	7782-49-2	
Strontium	**22.3**	mg/kg	2.3	20	09/24/18 08:50	09/24/18 17:00	7440-24-6	N2
Thallium	ND	mg/kg	2.3	20	09/24/18 08:50	09/24/18 17:00	7440-28-0	
Vanadium	**10.4**	mg/kg	2.3	20	09/24/18 08:50	09/24/18 17:00	7440-62-2	
Zinc	ND	mg/kg	46.4	20	09/24/18 08:50	09/24/18 17:00	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**59.1**	%	0.10	1		09/24/18 11:57		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196A Preparation Method: EPA 7196A Modified							
Chromium, Hexavalent	ND	mg/kg	12.0	1	09/25/18 11:12	09/25/18 12:07	18540-29-9	

Sample: 002 **Lab ID: 92400377002** Collected: 09/19/18 14:41 Received: 09/20/18 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Boron	ND	ug/L	500	10	09/25/18 00:17	09/26/18 13:31	7440-42-8	D3
Iron	**38700**	ug/L	400	10	09/25/18 00:17	09/26/18 13:31	7439-89-6	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**85000**	ug/L	200	20	09/25/18 00:16	09/27/18 12:01	7429-90-5	
Arsenic	**84.3**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:48	7440-38-2	
Cadmium	**1.3**	ug/L	0.10	1	09/25/18 00:16	09/25/18 17:48	7440-43-9	
Chromium	**25.4**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:48	7440-47-3	
Cobalt	**51.3**	ug/L	5.0	5	09/25/18 00:16	09/26/18 14:54	7440-48-4	
Copper	**68.7**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:48	7440-50-8	
Lead	**36.4**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:48	7439-92-1	
Manganese	**8240**	ug/L	20.0	20	09/25/18 00:16	09/27/18 12:01	7439-96-5	
Nickel	**33.7**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:48	7440-02-0	
Selenium	**16.1**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:48	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

Sample: 002 **Lab ID: 92400377002** Collected: 09/19/18 14:41 Received: 09/20/18 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Strontium	**1300**	ug/L	20.0	20	09/25/18 00:16	09/27/18 12:01	7440-24-6	
Thallium	**1.1**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:48	7440-28-0	
Vanadium	**64.3**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:48	7440-62-2	
Zinc	**255**	ug/L	5.0	1	09/25/18 00:16	09/25/18 17:48	7440-66-6	
218.7 Chromium, Hexavalent	Analytical Method: EPA 218.7 Rev 1.0 2011							
Chromium, Hexavalent	**0.58**	ug/L	0.50	20		09/22/18 13:03	18540-29-9	

Sample: 003 **Lab ID: 92400377003** Collected: 09/19/18 15:37 Received: 09/20/18 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Boron	ND	ug/L	500	10	09/25/18 00:17	09/26/18 13:41	7440-42-8	D3
Iron	**18600**	ug/L	400	10	09/25/18 00:17	09/26/18 13:41	7439-89-6	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**41500**	ug/L	100	10	09/25/18 00:16	09/27/18 12:04	7429-90-5	M1
Arsenic	**186**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:51	7440-38-2	
Cadmium	**0.40**	ug/L	0.10	1	09/25/18 00:16	09/25/18 17:51	7440-43-9	
Chromium	**30.4**	ug/L	5.0	5	09/25/18 00:16	09/26/18 17:38	7440-47-3	
Cobalt	**18.8**	ug/L	5.0	5	09/25/18 00:16	09/26/18 17:38	7440-48-4	
Copper	**89.4**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:51	7440-50-8	
Lead	**37.7**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:51	7439-92-1	
Manganese	**131**	ug/L	5.0	5	09/25/18 00:16	09/26/18 17:38	7439-96-5	M1
Nickel	**36.1**	ug/L	5.0	5	09/25/18 00:16	09/26/18 17:38	7440-02-0	
Selenium	**11.9**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:51	7782-49-2	
Strontium	**488**	ug/L	5.0	5	09/25/18 00:16	09/26/18 17:38	7440-24-6	M1
Thallium	**2.9**	ug/L	1.0	1	09/25/18 00:16	09/25/18 17:51	7440-28-0	
Vanadium	**102**	ug/L	5.0	5	09/25/18 00:16	09/26/18 17:38	7440-62-2	M1
Zinc	**68.0**	ug/L	5.0	1	09/25/18 00:16	09/25/18 17:51	7440-66-6	
218.7 Chromium, Hexavalent	Analytical Method: EPA 218.7 Rev 1.0 2011							
Chromium, Hexavalent	ND	ug/L	0.50	20		09/22/18 13:18	18540-29-9	

Sample: 003 SOIL **Lab ID: 92400377004** Collected: 09/19/18 15:37 Received: 09/20/18 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Boron	ND	mg/kg	86.6	20	09/25/18 15:20	09/26/18 21:44	7440-42-8	
Iron	**11000**	mg/kg	69.3	20	09/25/18 15:20	09/26/18 21:44	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

Sample: 003 SOIL **Lab ID: 92400377004** Collected: 09/19/18 15:37 Received: 09/20/18 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Aluminum	**10300**	mg/kg	74.8	50	09/24/18 08:50	09/25/18 12:21	7429-90-5	N2
Arsenic	**56.8**	mg/kg	1.5	20	09/24/18 08:50	09/24/18 17:03	7440-38-2	
Cadmium	ND	mg/kg	0.18	20	09/24/18 08:50	09/24/18 17:03	7440-43-9	
Chromium	**16.3**	mg/kg	1.5	20	09/24/18 08:50	09/24/18 17:03	7440-47-3	
Cobalt	**6.7**	mg/kg	1.5	20	09/24/18 08:50	09/24/18 17:03	7440-48-4	
Copper	**36.0**	mg/kg	3.0	20	09/24/18 08:50	09/24/18 17:03	7440-50-8	
Lead	**13.0**	mg/kg	1.5	20	09/24/18 08:50	09/24/18 17:03	7439-92-1	
Manganese	**74.3**	mg/kg	15.0	20	09/24/18 08:50	09/24/18 17:03	7439-96-5	
Nickel	**13.9**	mg/kg	1.5	20	09/24/18 08:50	09/24/18 17:03	7440-02-0	
Selenium	**8.4**	mg/kg	1.5	20	09/24/18 08:50	09/24/18 17:03	7782-49-2	
Strontium	**162**	mg/kg	1.5	20	09/24/18 08:50	09/24/18 17:03	7440-24-6	N2
Thallium	ND	mg/kg	1.5	20	09/24/18 08:50	09/24/18 17:03	7440-28-0	
Vanadium	**34.7**	mg/kg	1.5	20	09/24/18 08:50	09/24/18 17:03	7440-62-2	
Zinc	ND	mg/kg	29.9	20	09/24/18 08:50	09/24/18 17:03	7440-66-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**43.8**	%	0.10	1		09/24/18 11:58		

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QUALITY CONTROL DATA

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

QC Batch: 480135 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 92400377002, 92400377003

METHOD BLANK: 2600038 Matrix: Water
Associated Lab Samples: 92400377002, 92400377003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	50.0	09/26/18 11:25	
Iron	ug/L	ND	40.0	09/26/18 11:25	

LABORATORY CONTROL SAMPLE: 2600039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1250	1180	94	85-115	
Iron	ug/L	2500	2430	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2600040 2600041

Parameter	Units	2083970001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Boron	ug/L	ND	1250	1250	1300	1360	103	107	70-130	4	
Iron	ug/L	ND	2500	2500	2560	2570	102	103	70-130	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2600042 2600043

Parameter	Units	2084119010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Boron	ug/L	ND	1250	1250	1220	ND	98	98	70-130		
Iron	ug/L	161000	2500	2500	163000	162000	102	45	70-130	1	

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QUALITY CONTROL DATA

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

QC Batch: 480137 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 92400377002, 92400377003

METHOD BLANK: 2600044 Matrix: Water
Associated Lab Samples: 92400377002, 92400377003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	10.0	09/25/18 15:35	
Arsenic	ug/L	ND	1.0	09/25/18 15:35	
Cadmium	ug/L	ND	0.10	09/25/18 15:35	
Chromium	ug/L	ND	1.0	09/25/18 15:35	
Cobalt	ug/L	ND	1.0	09/25/18 15:35	
Copper	ug/L	ND	1.0	09/25/18 15:35	
Lead	ug/L	ND	1.0	09/25/18 15:35	
Manganese	ug/L	ND	1.0	09/25/18 15:35	
Nickel	ug/L	ND	1.0	09/25/18 15:35	
Selenium	ug/L	ND	1.0	09/25/18 15:35	
Strontium	ug/L	ND	1.0	09/25/18 15:35	
Thallium	ug/L	ND	1.0	09/25/18 15:35	
Vanadium	ug/L	ND	1.0	09/25/18 15:35	
Zinc	ug/L	ND	5.0	09/25/18 15:35	

LABORATORY CONTROL SAMPLE: 2600045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	500	503	101	85-115	
Arsenic	ug/L	50	51.4	103	85-115	
Cadmium	ug/L	5	5.4	109	85-115	
Chromium	ug/L	50	52.6	105	85-115	
Cobalt	ug/L	50	52.9	106	85-115	
Copper	ug/L	50	54.4	109	85-115	
Lead	ug/L	50	51.8	104	85-115	
Manganese	ug/L	50	51.9	104	85-115	
Nickel	ug/L	50	53.6	107	85-115	
Selenium	ug/L	50	52.7	105	85-115	
Strontium	ug/L	50	51.6	103	85-115	
Thallium	ug/L	50	52.7	105	85-115	
Vanadium	ug/L	50	52.2	104	85-115	
Zinc	ug/L	250	262	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2600046 2600047

Parameter	Units	2083970002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aluminum	ug/L	ND	500	500	516	514	102	102	70-130	0	

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QUALITY CONTROL DATA

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2600046 2600047

Parameter	Units	2083970002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	ug/L	3.8	50	50	55.2	52.1	103	97	70-130	6	
Cadmium	ug/L	ND	5	5	5.3	4.9	106	98	70-130	8	
Chromium	ug/L	ND	50	50	54.6	51.9	109	104	70-130	5	
Cobalt	ug/L	ND	50	50	52.8	52.7	105	105	70-130	0	
Copper	ug/L	ND	50	50	54.8	51.0	109	102	70-130	7	
Lead	ug/L	ND	50	50	52.3	51.2	104	102	70-130	2	
Manganese	ug/L	104	50	50	161	152	115	96	70-130	6	
Nickel	ug/L	ND	50	50	56.3	53.0	111	104	70-130	6	
Selenium	ug/L	ND	50	50	51.5	54.7	103	109	70-130	6	
Strontium	ug/L	184	50	50	240	224	111	79	70-130	7	
Thallium	ug/L	ND	50	50	54.0	51.3	108	103	70-130	5	
Vanadium	ug/L	ND	50	50	54.2	51.6	108	103	70-130	5	
Zinc	ug/L	ND	250	250	261	248	103	98	70-130	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2600048 2600049

Parameter	Units	92400377003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aluminum	ug/L	41500	500	500	39900	36000	-320	-1100	70-130	10	
Arsenic	ug/L	186	50	50	236	227	99	81	70-130	4	
Cadmium	ug/L	0.40	5	5	5.7	5.6	106	103	70-130	2	
Chromium	ug/L	30.4	50	50	80.6	68.3	100	76	70-130	17	
Cobalt	ug/L	18.8	50	50	65.4	58.2	93	79	70-130	12	
Copper	ug/L	89.4	50	50	144	142	110	104	70-130	2	
Lead	ug/L	37.7	50	50	85.7	84.7	96	94	70-130	1	
Manganese	ug/L	131	50	50	183	160	105	59	70-130	13	
Nickel	ug/L	36.1	50	50	82.8	74.2	93	76	70-130	11	
Selenium	ug/L	11.9	50	50	65.2	61.2	107	99	70-130	6	
Strontium	ug/L	488	50	50	548	479	119	-19	70-130	13	
Thallium	ug/L	2.9	50	50	51.2	50.3	97	95	70-130	2	
Vanadium	ug/L	102	50	50	150	133	95	61	70-130	12	
Zinc	ug/L	68.0	250	250	321	317	101	100	70-130	1	

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REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

QC Batch: 480346 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 92400377001, 92400377004

METHOD BLANK: 2600611 Matrix: Solid
Associated Lab Samples: 92400377001, 92400377004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/kg	ND	2.6	09/26/18 14:47	
Iron	mg/kg	ND	2.1	09/26/18 14:47	

LABORATORY CONTROL SAMPLE: 2600612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/kg	73.8	70.2	95	80-120	
Iron	mg/kg	148	156	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2600613 2600614

Parameter	Units	35414481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Boron	mg/kg	5.8	86.3	100	85.9	102	93	96	75-125	17	
Iron	mg/kg	2960	173	202	4060	3760	633	398	75-125	7	

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QUALITY CONTROL DATA

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

QC Batch: 479744 Analysis Method: EPA 6020
QC Batch Method: EPA 3050 Analysis Description: 6020 MET SOLID
Associated Lab Samples: 92400377001, 92400377004

METHOD BLANK: 2598585 Matrix: Solid
Associated Lab Samples: 92400377001, 92400377004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	ND	19.9	09/24/18 15:42	
Arsenic	mg/kg	ND	1.0	09/24/18 15:42	
Cadmium	mg/kg	ND	0.12	09/24/18 15:42	
Chromium	mg/kg	ND	1.0	09/24/18 15:42	
Cobalt	mg/kg	ND	1.0	09/24/18 15:42	
Copper	mg/kg	ND	2.0	09/24/18 15:42	
Lead	mg/kg	ND	1.0	09/24/18 15:42	
Manganese	mg/kg	ND	10	09/24/18 15:42	
Nickel	mg/kg	ND	1.0	09/24/18 15:42	
Selenium	mg/kg	ND	1.0	09/24/18 15:42	
Strontium	mg/kg	ND	1.0	09/24/18 15:42	
Thallium	mg/kg	ND	1.0	09/24/18 15:42	
Vanadium	mg/kg	ND	1.0	09/24/18 15:42	
Zinc	mg/kg	ND	19.9	09/24/18 15:42	

LABORATORY CONTROL SAMPLE: 2598586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	237	234	99	80-120	
Arsenic	mg/kg	23.7	23.9	101	80-120	
Cadmium	mg/kg	2.4	2.4	101	80-120	
Chromium	mg/kg	23.7	23.9	101	80-120	
Cobalt	mg/kg	23.7	23.3	99	80-120	
Copper	mg/kg	23.7	24.9	105	80-120	
Lead	mg/kg	23.7	23.6	100	80-120	
Manganese	mg/kg	23.7	23.5	99	80-120	
Nickel	mg/kg	23.7	23.9	101	80-120	
Selenium	mg/kg	23.7	23.4	99	80-120	
Strontium	mg/kg	23.7	23.7	100	80-120	
Thallium	mg/kg	23.7	23.7	100	80-120	
Vanadium	mg/kg	23.7	23.2	98	80-120	
Zinc	mg/kg	118	121	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2598587 2598588

Parameter	Units	35418169001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aluminum	mg/kg	956	235	298	1410	1620	193	222	75-125	14	

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(828)254-7176

QUALITY CONTROL DATA

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2598587 2598588

Parameter	Units	35418169001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/kg	3.2	23.5	29.8	26.5	33.7	99	102	75-125	24	
Cadmium	mg/kg	0.060J	2.39	2.93	2.4	3.0	99	99	75-125	23	
Chromium	mg/kg	4.5	23.5	29.8	29.5	36.5	106	107	75-125	21	
Cobalt	mg/kg	0.42U	23.5	29.8	23.0	29.2	97	97	75-125	24	
Copper	mg/kg	3.7	23.5	29.8	27.5	34.0	101	101	75-125	21	
Lead	mg/kg	1.8	23.5	29.8	24.9	31.6	98	100	75-125	24	
Manganese	mg/kg	12.9	23.5	29.8	41.0	43.9	119	104	75-125	7	
Nickel	mg/kg	0.84J	23.5	29.8	24.4	30.9	100	101	75-125	23	
Selenium	mg/kg	0.56U	23.5	29.8	22.9	29.6	96	98	75-125	26	
Strontium	mg/kg	101	23.5	29.8	206	137	447	123	75-125	40	
Thallium	mg/kg	0.39U	23.5	29.8	23.6	30.2	100	101	75-125	24	
Vanadium	mg/kg	1.7	23.5	29.8	25.6	31.9	102	101	75-125	22	
Zinc	mg/kg	23.5	118	149	128	169	88	98	75-125	28	

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QUALITY CONTROL DATA

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

QC Batch: 432291
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92400377001, 92400377004

SAMPLE DUPLICATE: 2382882

Parameter	Units	92400377001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	59.1	59.5	1	

SAMPLE DUPLICATE: 2382883

Parameter	Units	92400362011 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	28.7	29.2	2	

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QUALITY CONTROL DATA

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

QC Batch: 432016 Analysis Method: EPA 218.7 Rev 1.0 2011
QC Batch Method: EPA 218.7 Rev 1.0 2011 Analysis Description: 218.7 Chromium, Hexavalent
Associated Lab Samples: 92400377002, 92400377003

METHOD BLANK: 2381672 Matrix: Water
Associated Lab Samples: 92400377002, 92400377003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	ug/L	ND	0.025	09/22/18 07:29	

LABORATORY CONTROL SAMPLE: 2381673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	ug/L	.1	0.10	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2381674 2381675

Parameter	Units	92400246001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	ug/L	0.055	.1	.1	0.16	0.16	103	101	90-110	1	

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QUALITY CONTROL DATA

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

QC Batch: 432478
QC Batch Method: EPA 7196A Modified
Analysis Method: EPA 7196A
Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 92400377001

METHOD BLANK: 2383700 Matrix: Solid
Associated Lab Samples: 92400377001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	5.1	09/25/18 12:04	

LABORATORY CONTROL SAMPLE: 2383701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	25.5	25.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2383702 2383703

Parameter	Units	92400377001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	mg/kg	ND	61.2	57.8	62.0	56.3	101	98	75-125	10	

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(828)254-7176

QUALIFIERS

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-O	Pace Analytical Services - Ormond Beach

BATCH QUALIFIERS

Batch: 479990

[1]	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Waterkeeper Alliance 9/19
Pace Project No.: 92400377

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92400377002	**002**	EPA 200.7	480135	EPA 200.7	480140
92400377003	**003**	EPA 200.7	480135	EPA 200.7	480140
92400377001	**001**	EPA 3050	480346	EPA 6010	480522
92400377004	**003 SOIL**	EPA 3050	480346	EPA 6010	480522
92400377002	**002**	EPA 200.8	480137	EPA 200.8	480139
92400377003	**003**	EPA 200.8	480137	EPA 200.8	480139
92400377001	**001**	EPA 3050	479744	EPA 6020	479990
92400377004	**003 SOIL**	EPA 3050	479744	EPA 6020	479990
92400377001	**001**	ASTM D2974-87	432291		
92400377004	**003 SOIL**	ASTM D2974-87	432291		
92400377002	**002**	EPA 218.7 Rev 1.0 2011	432016		
92400377003	**003**	EPA 218.7 Rev 1.0 2011	432016		
92400377001	**001**	EPA 7196A Modified	432478	EPA 7196A	432503

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Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: water Keeper Alliance

Project #: WO# : 92400377

92400377

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: TD 9/20/18

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

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

Thermometer: ☐ IR Gun ID: 93T046

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 5.3 **Correction Factor:** Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 5.3

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

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. Limited Volumeon Sediment 003
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: WT | SL				
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

metals bottles have a large amount of solids.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** 9/21/18

Project Manager SRF Review: _____ **Date:** 9/24/18

***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 bottle**

Project # **WO# : 92400377**

PM: CD1 Due Date: 09/26/18

CLIENT: 93-Waterkeep

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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1				—		i ✓																				i ✓			
2						— ✓																				— ✓			
3				—		— ✓																				— ✓			
4																													
5																													
6																													
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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of 2234316

Section A Required Client Information:

Company:	Waterkeeper Alliance
Address:	180 Maiden Lane Suite 603, NY, NY 10038
Email To:	dlisky@waterkeeper.org
Phone:	Fax:
Requested Due Date/TAT:	3 Day

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 200.7 B, Fe	200.8 Al, As	Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Tl, V, Zn	6020B Al, As	Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Tl, V, Zn	218.7 Chrom VI	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92400377
1	001		G			9/19	1:31		3			X															001
2	002		G			9/19	2:41		2			X															002
3	003		G			9/19	3:37		3			X															003/004
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Matthew Starr	9-20	9:29	Hatten Cerra	9-20	9:29		Y/S		Y/S
	Hatten	9-20	3:00	Jaylin Dyson	9/20/18	1500	5.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matthew Starr

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 09/20/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.