

April 26, 2018

Robert Smith
ATC Group Services
46555 Humboldt
Suite 100
Novi, MI 48377

RE: Project: DW Testing - Sampson/Webber
Pace Project No.: 4610696

Dear Robert Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 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,



Gary Wood
gary.wood@pacelabs.com
(616)940-4206
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services
Michael Hauswirth, ATC Group Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512

Minnesota Department of Health, Certificate #1385941

Arkansas Department of Environmental Quality, Certificate
#17-046-0

Georgia Environmental Protection Division, Stipulation

Illinois Environmental Protection Agency, Certificate

#004325

Michigan Department of Environmental Quality, Laboratory

#0034

New York State Department of Health, Serial #56192 and
56193

North Carolina Division of Water Resources, Certificate
#659

Virginia Department of General Services, Certificate #9028

Wisconsin Department of Natural Resources, Laboratory
#999472650

U.S. Department of Agriculture Permit to Receive Soil,
Permit #P330-17-00278

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4610696001	1-123-CF-1	Drinking Water	04/05/18 14:53	04/11/18 17:58
4610696002	1-127-CF-1	Drinking Water	04/05/18 14:22	04/11/18 17:58
4610696003	1-127-CF-2	Drinking Water	04/05/18 14:21	04/11/18 17:58
4610696004	1-128-CF-1	Drinking Water	04/05/18 14:18	04/11/18 17:58
4610696005	1-BL-B-1	Drinking Water	04/05/18 14:40	04/11/18 17:58
4610696006	1-MO-CRF-1	Drinking Water	04/05/18 14:40	04/11/18 17:58
4610696007	1-A-B-1	Drinking Water	04/05/18 14:11	04/11/18 17:58
4610696008	1-A-B-2	Drinking Water	04/05/18 14:11	04/11/18 17:58
4610696009	1-B-B-1	Drinking Water	04/05/18 14:45	04/11/18 17:58
4610696010	1-B-B-2	Drinking Water	04/05/18 14:45	04/11/18 17:58
4610696011	1-B-B-3	Drinking Water	04/05/18 14:41	04/11/18 17:58
4610696012	1-B-B-4	Drinking Water	04/05/18 14:42	04/11/18 17:58
4610696013	1-H-B-1	Drinking Water	04/05/18 14:17	04/11/18 17:58
4610696014	1-I-B-1	Drinking Water	04/05/18 14:26	04/11/18 17:58
4610696015	2-E-B-1	Drinking Water	04/05/18 15:10	04/11/18 17:58
4610696016	2-E-B-2	Drinking Water	04/05/18 15:11	04/11/18 17:58
4610696017	2-G-B-1	Drinking Water	04/05/18 14:57	04/11/18 17:58
4610696018	2-G-B-2	Drinking Water	04/05/18 14:57	04/11/18 17:58
4610696019	2-SL-OF-1	Drinking Water	04/05/18 15:20	04/11/18 17:58
4610696020	2-205-CF-1	Drinking Water	04/05/18 15:00	04/11/18 17:58
4610696021	2-205-CF-2	Drinking Water	04/05/18 14:59	04/11/18 17:58
4610696022	2-205-CF-3	Drinking Water	04/05/18 14:59	04/11/18 17:58
4610696023	2-205-CF-4	Drinking Water	04/05/18 15:00	04/11/18 17:58
4610696024	2-205-CF-5	Drinking Water	04/05/18 15:00	04/11/18 17:58
4610696025	2-205-CF-6	Drinking Water	04/05/18 15:02	04/11/18 17:58
4610696026	2-225-OF-1	Drinking Water	04/05/18 15:15	04/11/18 17:58
4610696027	2-229-OF-1	Drinking Water	04/05/18 15:16	04/11/18 17:58
4610696028	1-K-KF-1	Drinking Water	04/05/18 10:23	04/11/18 17:58
4610696029	1-K-KF-4	Drinking Water	04/05/18 10:25	04/11/18 17:58
4610696030	1-K-KF-6	Drinking Water	04/05/18 10:25	04/11/18 17:58
4610696031	1-K-KF-8	Drinking Water	04/05/18 10:25	04/11/18 17:58

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SAMPLE ANALYTE COUNT

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4610696001	1-123-CF-1	EPA 200.8	DWJ	2
4610696002	1-127-CF-1	EPA 200.8	DWJ	2
4610696003	1-127-CF-2	EPA 200.8	DWJ	2
4610696004	1-128-CF-1	EPA 200.8	DWJ	2
4610696005	1-BL-B-1	EPA 200.8	DWJ	2
4610696006	1-MO-CRF-1	EPA 200.8	DWJ	2
4610696007	1-A-B-1	EPA 200.8	DWJ	2
4610696008	1-A-B-2	EPA 200.8	DWJ	2
4610696009	1-B-B-1	EPA 200.8	DWJ	2
4610696010	1-B-B-2	EPA 200.8	DWJ	2
4610696011	1-B-B-3	EPA 200.8	DWJ	2
4610696012	1-B-B-4	EPA 200.8	DWJ	2
4610696013	1-H-B-1	EPA 200.8	DWJ	2
4610696014	1-I-B-1	EPA 200.8	DWJ	2
4610696015	2-E-B-1	EPA 200.8	DWJ	2
4610696016	2-E-B-2	EPA 200.8	DWJ	2
4610696017	2-G-B-1	EPA 200.8	DWJ	2
4610696018	2-G-B-2	EPA 200.8	DWJ	2
4610696019	2-SL-OF-1	EPA 200.8	DWJ	2
4610696020	2-205-CF-1	EPA 200.8	DWJ	2
4610696021	2-205-CF-2	EPA 200.8	DWJ	2
4610696022	2-205-CF-3	EPA 200.8	DWJ	2
4610696023	2-205-CF-4	EPA 200.8	DWJ	2
4610696024	2-205-CF-5	EPA 200.8	DWJ	2
4610696025	2-205-CF-6	EPA 200.8	DWJ	2
4610696026	2-225-OF-1	EPA 200.8	DWJ	2
4610696027	2-229-OF-1	EPA 200.8	DWJ	2
4610696028	1-K-KF-1	EPA 200.8	DWJ	2
4610696029	1-K-KF-4	EPA 200.8	DWJ	2
4610696030	1-K-KF-6	EPA 200.8	DWJ	2
4610696031	1-K-KF-8	EPA 200.8	DWJ	2

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-123-CF-1		Lab ID: 4610696001		Collected: 04/05/18 14:53		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	2180	ug/L	50.0	1300	50		04/25/18 11:24	7440-50-8	
Lead	36.8	ug/L	1.0	15	1		04/24/18 14:41	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-127-CF-1		Lab ID: 4610696002		Collected: 04/05/18 14:22		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	445	ug/L	10.0	1300	10		04/25/18 11:26	7440-50-8	
Lead	7.0	ug/L	1.0	15	1		04/24/18 14:42	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-127-CF-2		Lab ID: 4610696003		Collected: 04/05/18 14:21		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	890	ug/L	25.0	1300	25		04/25/18 11:31	7440-50-8	
Lead	1.1	ug/L	1.0	15	1		04/24/18 14:48	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-128-CF-1		Lab ID: 4610696004		Collected: 04/05/18 14:18		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	591	ug/L	10.0	1300	10		04/25/18 11:33	7440-50-8	
Lead	2.5	ug/L	1.0	15	1		04/24/18 14:49	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-BL-B-1		Lab ID: 4610696005		Collected: 04/05/18 14:40		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	194	ug/L	5.0	1300	5		04/25/18 11:37	7440-50-8	
Lead	4.1	ug/L	1.0	15	1		04/24/18 14:50	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-MO-CRF-1		Lab ID: 4610696006		Collected: 04/05/18 14:40		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1390	ug/L	25.0	1300	25		04/25/18 11:39	7440-50-8	
Lead	122	ug/L	5.0	15	5		04/25/18 11:40	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-A-B-1		Lab ID: 4610696007		Collected: 04/05/18 14:11		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	81.1	ug/L	1.0	1300	1		04/24/18 14:56	7440-50-8	
Lead	5.5	ug/L	1.0	15	1		04/24/18 14:56	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-A-B-2		Lab ID: 4610696008		Collected: 04/05/18 14:11		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	77.9	ug/L	1.0	1300	1		04/24/18 14:57	7440-50-8	
Lead	4.9	ug/L	1.0	15	1		04/24/18 14:57	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-B-B-1		Lab ID: 4610696009		Collected: 04/05/18 14:45		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	250	ug/L	5.0	1300	5		04/25/18 11:42	7440-50-8	
Lead	2.8	ug/L	1.0	15	1		04/24/18 14:58	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-B-B-2		Lab ID: 4610696010		Collected: 04/05/18 14:45		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	201	ug/L	5.0	1300	5		04/25/18 11:43	7440-50-8	
Lead	2.5	ug/L	1.0	15	1		04/24/18 15:00	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-B-B-3		Lab ID: 4610696011		Collected: 04/05/18 14:41		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	125	ug/L	5.0	1300	5		04/25/18 11:45	7440-50-8	
Lead	2.1	ug/L	1.0	15	1		04/24/18 15:01	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-B-B-4		Lab ID: 4610696012		Collected: 04/05/18 14:42		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	130	ug/L	5.0	1300	5		04/25/18 11:46	7440-50-8	
Lead	4.4	ug/L	1.0	15	1		04/24/18 15:02	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-H-B-1		Lab ID: 4610696013		Collected: 04/05/18 14:17		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	169	ug/L	5.0	1300	5		04/25/18 11:48	7440-50-8	
Lead	8.0	ug/L	1.0	15	1		04/24/18 15:04	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-I-B-1		Lab ID: 4610696014		Collected: 04/05/18 14:26		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	79.2	ug/L	1.0	1300	1		04/24/18 15:05	7440-50-8	
Lead	6.6	ug/L	1.0	15	1		04/24/18 15:05	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-E-B-1		Lab ID: 4610696015		Collected: 04/05/18 15:10		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	92.5	ug/L	1.0	1300	1		04/24/18 15:06	7440-50-8	
Lead	6.1	ug/L	1.0	15	1		04/24/18 15:06	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-E-B-2		Lab ID: 4610696016		Collected: 04/05/18 15:11		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	88.6	ug/L	1.0	1300	1		04/24/18 15:10	7440-50-8	
Lead	5.2	ug/L	1.0	15	1		04/24/18 15:10	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-G-B-1		Lab ID: 4610696017		Collected: 04/05/18 14:57		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	228	ug/L	5.0	1300	5		04/25/18 11:49	7440-50-8	
Lead	3.4	ug/L	1.0	15	1		04/24/18 15:12	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-G-B-2		Lab ID: 4610696018		Collected: 04/05/18 14:57		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	169	ug/L	5.0	1300	5		04/25/18 11:58	7440-50-8	
Lead	10.7	ug/L	1.0	15	1		04/24/18 15:17	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-SL-OF-1		Lab ID: 4610696019		Collected: 04/05/18 15:20		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	533	ug/L	10.0	1300	10		04/25/18 14:07	7440-50-8	
Lead	52.5	ug/L	1.0	15	1		04/25/18 12:02	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-205-CF-1		Lab ID: 4610696020		Collected: 04/05/18 15:00		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1260	ug/L	25.0	1300	25		04/25/18 14:16	7440-50-8	
Lead	24.2	ug/L	1.0	15	1		04/25/18 12:08	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-205-CF-2		Lab ID: 4610696021		Collected: 04/05/18 14:59		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1200	ug/L	25.0	1300	25		04/25/18 14:18	7440-50-8	
Lead	16.7	ug/L	1.0	15	1		04/25/18 12:13	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-205-CF-3		Lab ID: 4610696022		Collected: 04/05/18 14:59		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	848	ug/L	10.0	1300	10		04/25/18 14:19	7440-50-8	
Lead	12.8	ug/L	1.0	15	1		04/25/18 12:14	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-205-CF-4		Lab ID: 4610696023		Collected: 04/05/18 15:00		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	884	ug/L	10.0	1300	10		04/25/18 14:21	7440-50-8	
Lead	13.2	ug/L	1.0	15	1		04/25/18 12:16	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-205-CF-5		Lab ID: 4610696024		Collected: 04/05/18 15:00		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1070	ug/L	25.0	1300	25		04/25/18 14:22	7440-50-8	
Lead	67.0	ug/L	1.0	15	1		04/25/18 12:17	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-205-CF-6		Lab ID: 4610696025		Collected: 04/05/18 15:02		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	773	ug/L	10.0	1300	10		04/25/18 14:24	7440-50-8	
Lead	44.5	ug/L	1.0	15	1		04/25/18 12:19	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-225-OF-1		Lab ID: 4610696026		Collected: 04/05/18 15:15		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	822	ug/L	10.0	1300	10		04/25/18 14:25	7440-50-8	
Lead	43.6	ug/L	1.0	15	1		04/25/18 12:20	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 2-229-OF-1		Lab ID: 4610696027		Collected: 04/05/18 15:16		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	573	ug/L	10.0	1300	10		04/25/18 14:27	7440-50-8	
Lead	8.2	ug/L	1.0	15	1		04/25/18 12:21	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-K-KF-1		Lab ID: 4610696028		Collected: 04/05/18 10:23		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	68.2	ug/L	1.0	1300	1		04/25/18 12:23	7440-50-8	
Lead	1.4	ug/L	1.0	15	1		04/25/18 12:23	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-K-KF-4		Lab ID: 4610696029		Collected: 04/05/18 10:25		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	323	ug/L	5.0	1300	5		04/25/18 14:31	7440-50-8	
Lead	32.2	ug/L	1.0	15	1		04/25/18 12:24	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-K-KF-6		Lab ID: 4610696030		Collected: 04/05/18 10:25		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	529	ug/L	10.0	1300	10		04/25/18 14:32	7440-50-8	
Lead	7.4	ug/L	1.0	15	1		04/25/18 12:26	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Sample: 1-K-KF-8		Lab ID: 4610696031		Collected: 04/05/18 10:25		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	404	ug/L	5.0	1300	5		04/25/18 14:34	7440-50-8	
Lead	17.3	ug/L	1.0	15	1		04/25/18 12:30	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

QC Batch: 21151 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4610696001, 4610696002, 4610696003, 4610696004, 4610696005, 4610696006, 4610696007, 4610696008, 4610696009, 4610696010, 4610696011, 4610696012, 4610696013, 4610696014, 4610696015, 4610696016, 4610696017, 4610696018

METHOD BLANK: 84310 Matrix: Water
Associated Lab Samples: 4610696001, 4610696002, 4610696003, 4610696004, 4610696005, 4610696006, 4610696007, 4610696008, 4610696009, 4610696010, 4610696011, 4610696012, 4610696013, 4610696014, 4610696015, 4610696016, 4610696017, 4610696018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/24/18 14:33	
Lead	ug/L	<1.0	1.0	04/24/18 14:33	

LABORATORY CONTROL SAMPLE: 84311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	21.1	105	85-115	
Lead	ug/L	20	20.9	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 84312 84313

Parameter	Units	4610696002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	445	200	200	670	656	113	106	70-130	2	20	
Lead	ug/L	7.0	20	20	26.8	27.7	99	103	70-130	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 84315 84316

Parameter	Units	4610696017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	228	100	100	333	331	105	103	70-130	1	20	
Lead	ug/L	3.4	20	20	23.8	23.6	102	101	70-130	1	20	

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: DW Testing - Sampson/Webber

Pace Project No.: 4610696

QC Batch:	21233	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4610696019, 4610696020, 4610696021, 4610696022, 4610696023, 4610696024, 4610696025, 4610696026, 4610696027, 4610696028, 4610696029, 4610696030, 4610696031		

METHOD BLANK: 84616 Matrix: Water
Associated Lab Samples: 4610696019, 4610696020, 4610696021, 4610696022, 4610696023, 4610696024, 4610696025, 4610696026, 4610696027, 4610696028, 4610696029, 4610696030, 4610696031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/25/18 11:59	
Lead	ug/L	<1.0	1.0	04/25/18 11:59	

LABORATORY CONTROL SAMPLE: 84617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.5	103	85-115	
Lead	ug/L	20	21.0	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 84618 84619

Parameter	Units	4610696019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	533	200	200	756	749	111	108	70-130	1	20	
Lead	ug/L	52.5	20	20	73.4	73.0	104	102	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 84621 84622

Parameter	Units	4610697003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	92.0	100	100	204	198	112	106	70-130	3	20	
Lead	ug/L	1.7	20	20	22.6	22.2	105	103	70-130	2	20	

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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QUALIFIERS

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

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.

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DW Testing - Sampson/Webber

Pace Project No.: 4610696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4610696001	1-123-CF-1	EPA 200.8	21151		
4610696002	1-127-CF-1	EPA 200.8	21151		
4610696003	1-127-CF-2	EPA 200.8	21151		
4610696004	1-128-CF-1	EPA 200.8	21151		
4610696005	1-BL-B-1	EPA 200.8	21151		
4610696006	1-MO-CRF-1	EPA 200.8	21151		
4610696007	1-A-B-1	EPA 200.8	21151		
4610696008	1-A-B-2	EPA 200.8	21151		
4610696009	1-B-B-1	EPA 200.8	21151		
4610696010	1-B-B-2	EPA 200.8	21151		
4610696011	1-B-B-3	EPA 200.8	21151		
4610696012	1-B-B-4	EPA 200.8	21151		
4610696013	1-H-B-1	EPA 200.8	21151		
4610696014	1-I-B-1	EPA 200.8	21151		
4610696015	2-E-B-1	EPA 200.8	21151		
4610696016	2-E-B-2	EPA 200.8	21151		
4610696017	2-G-B-1	EPA 200.8	21151		
4610696018	2-G-B-2	EPA 200.8	21151		
4610696019	2-SL-OF-1	EPA 200.8	21233		
4610696020	2-205-CF-1	EPA 200.8	21233		
4610696021	2-205-CF-2	EPA 200.8	21233		
4610696022	2-205-CF-3	EPA 200.8	21233		
4610696023	2-205-CF-4	EPA 200.8	21233		
4610696024	2-205-CF-5	EPA 200.8	21233		
4610696025	2-205-CF-6	EPA 200.8	21233		
4610696026	2-225-OF-1	EPA 200.8	21233		
4610696027	2-229-OF-1	EPA 200.8	21233		
4610696028	1-K-KF-1	EPA 200.8	21233		
4610696029	1-K-KF-4	EPA 200.8	21233		
4610696030	1-K-KF-6	EPA 200.8	21233		
4610696031	1-K-KF-8	EPA 200.8	21233		

REPORT OF LABORATORY ANALYSIS

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OF-CUSTODY / Analytical Request Document
Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

#19326

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	ATC Group Services	Report To:	Rob Smith	Page: 1 of 3	
Address:	46555 Humboldt Dr. Ste 100,	Copy To:			
	Novi Mi. 48377				
Email To:	robert.smith@atcgs.com	Purchase Order No.:		REGULATORY AGENCY	
Phone: 1 248 669 5140	Fax:			<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Requested Due Date/TAT: 10 Days		Project Name:	Sampson/Webber Elementary School	Site Location	
		Project Number:	188bs18114	MI	
				STATE:	

[illegible]

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	ATC Group Services	Report To:	Rob Smith		
Address:	46555 Humboldt Dr. Ste 100,	Copy To:			
	Novi Mi. 48377				
Email To:	robert.smith@atcgs.com	Purchase Order No.:			
Phone:	1 248 669 5140	Fax:			
Requested Due Date/TAT:		10 Days			
		Project Name: Sampson/Webber Elementary School			
		Project Number: 188bs18114			
		Pace Profile #:			
		Pace Quote Reference:			
		Pace Project Manager:			
		Regulatory Agency:			
		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____			
		Site Location		MI	

[illegible]

CHAIN-OF-CUSTODY / Analytical Request Document

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

#19328

Section A						Section B						Section C					
Required Client Information:						Required Project Information:						Invoice Information:					
Company:			ATC Group Services			Report To:			Rob Smith			Attention:					
Address:			46555 Humboldt Dr. Ste 100,			Copy To:						Company Name:					
			Novi Mi. 48377									Address:					
Email To:			robert.smith@atcgs.com			Purchase Order No.:						Pace Quote Reference:					
Phone:			1 248 669 5140			Project Name:			Sampson/Webber Elementary School			Pace Project Manager:					
Requested Due Date/TAT:			10 Days			Project Number:			188bs 18114			Pace Profile #:					
<div style="float: right; border: 1px solid black; padding: 5px;"> Page: <u>3</u> of <u>3</u> </div>																	
REGULATORY AGENCY																	
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____																	
Site Location												MI					

[illegible]

SAMPLE RECEIVING / LOG-IN CHECKLIST

Pace Analytical

Client ATC - Sampson/Webber	Work Order #: 4610696
Receipt Record Page/Line # (46-45)	Project Chemist 001-031

Recorded by (initials/date) aw 04/12/18am	<input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other	Qty Received 1	<input checked="" type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Thermometer Used <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> Other (#)	<input type="checkbox"/> See Additional Cooler Information Form
---	--	--------------------------	---	---

Cooler #	Time 0115	
Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C
Temp Blank: 21.5	0	21.5
Sample 1: 21.5	0	21.5
Sample 2: 21.5	0	21.5
Sample 3: 21.5	0	21.5
3 Sample Average °C: 21.5		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?		

Cooler #	Time	
Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1:		
Sample 2:		
Sample 3:		
3 Sample Average °C:		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?		

Cooler #	Time	
Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1:		
Sample 2:		
Sample 3:		
3 Sample Average °C:		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?		

Cooler #	Time	
Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1:		
Sample 2:		
Sample 3:		
3 Sample Average °C:		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?		

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/> Chain of Custody record(s)? If No, Initiated By _____
<input checked="" type="checkbox"/>	Received for Lab Signed/Date/Time?
<input type="checkbox"/>	<input checked="" type="checkbox"/> Shipping document?
<input type="checkbox"/>	<input checked="" type="checkbox"/> Other _____

COC Information

<input checked="" type="checkbox"/> Pace COC	<input type="checkbox"/> Other _____
COC ID Numbers: 19326, 19327, 19328	

Check COC for Accuracy

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/> Analysis Requested?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Sample ID matches COC?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Sample Date and Time matches COC?
<input checked="" type="checkbox"/>	Container type completed on COC?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> All container types indicated are received?

Sample Condition Summary

N/A	Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Broken containers/lids?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Missing or incomplete labels?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Illegible information on labels?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Low volume received?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Inappropriate or non-Pace containers received?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> VOC vials / TOX containers have headspace?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Temperature Blank OR average sample temperature, ≥6° C?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> If either is ≥6° C, was thermal preservation required?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	If "Yes", Project Chemist Approval Initials: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	If "Yes" Completed Non Con Cooler - Cont Inventory Form?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Completed Sample Preservation Verification Form?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Samples chemically preserved correctly?
<input type="checkbox"/>	<input type="checkbox"/>	If "No", added orange tag?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Received pre-preserved VOC soils?
		<input type="checkbox"/> MeOH <input type="checkbox"/> Na ₂ SO ₄

Check for Short Hold-Time Prep/Analyses

<input type="checkbox"/> Bacteriological	AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) <input checked="" type="checkbox"/> NONE RECEIVED <input type="checkbox"/> RECEIVED, COCs TO LAB(S)
<input type="checkbox"/> Air Bags	
<input type="checkbox"/> EnCores / Methanol Pre-Preserved	
<input type="checkbox"/> Formaldehyde/Aldehyde	
<input type="checkbox"/> Green-tagged containers	
<input type="checkbox"/> Yellow/White-tagged 1 L ambers (SV Prep-Lab)	

Notes

<input type="checkbox"/> Trip Blank received	<input type="checkbox"/> Trip Blank not listed on COC
Cooler Received (Date/Time) aw 04/12/18	Paperwork Delivered (Date/Time) aw 04/12/18am
≤1 Hour Goal Met? Yes / No	

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client ATC - Sampson / Webber		Work Order # 4610696
Receipt Log # (4645)	Completed By (initials/date) aw 04/12/18	Project Manager

COC ID # 19326 (1/3)												Adjusted by: _____ Date: _____	
Container Type	5 / 23		4		13		(6)		15				
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2				
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	
COC Line #1							✓						
COC Line #2							✓						
COC Line #3							✓						
COC Line #4							✓						
COC Line #5							✓						
COC Line #6							✓						
COC Line #7							✓						
COC Line #8							✓						
COC Line #9							✓						
COC Line #10							✓						
COC Line #11							✓						
COC Line #12							✓						

pH Strip Reagent or Lot #
<input checked="" type="checkbox"/> HC727135
<input type="checkbox"/> Other

Place a check mark in the Received box if pH is acceptable. If pH is not acceptable, document the Received and Adjusted pH values in the appropriate columns (all adjustments must be reviewed by the project manager). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach an orange preservation tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

Comments:

COC ID # 19327 (2/3)												Adjusted by: _____ Date: _____	
Container Type	5 / 23		4		13		(6)		15				
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2				
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	
COC Line #1							✓						
COC Line #2							✓						
COC Line #3							✓						
COC Line #4							✓						
COC Line #5							✓						
COC Line #6							✓						
COC Line #7							✓						
COC Line #8							✓						
COC Line #9							✓						
COC Line #10							✓						
COC Line #11							✓						
COC Line #12							✓						

Comments:

Container Size (mL)	Default Preservative Volume (mL)
Container Types 5 / 23	NaOH
250	1.3
Container Type 4	H ₂ SO ₄
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H ₂ SO ₄
500	2.5
Container Types 6 / 15	HNO ₃
125	0.7
250	1.25
500	2.5
1000	5.0

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client <i>ATC - Sampson / Webber</i>		Work Order # <i>4610696</i>
Receipt Log # <i>(46-45)</i>	Completed By (initials/date) <i>aw 04/12/18</i>	Project Manager

COC ID # <i>19328</i> <i>(3/3)</i>												Adjusted by: _____	
												Date: _____	
Container Type	5 / 23		4		13		6		15				
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2				
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	
COC Line #1							✓						
COC Line #2							✓						
COC Line #3							✓						
COC Line #4							✓						
COC Line #5							✓						
COC Line #6							✓						
COC Line #7							✓						
COC Line #8													
COC Line #9													
COC Line #10													
COC Line #11													
COC Line #12													

pH Strip Reagent or Lot #	
<input checked="" type="checkbox"/>	HC727135
<input type="checkbox"/>	Other

Place a check mark in the Received box if pH is acceptable. If pH is not acceptable, document the Received and Adjusted pH values in the appropriate columns (all adjustments must be reviewed by the project manager). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach an orange preservation tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

Comments:

COC ID #												Adjusted by: _____	
												Date: _____	
Container Type	5 / 23		4		13		6		15				
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2				
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	
COC Line #1													
COC Line #2													
COC Line #3													
COC Line #4													
COC Line #5													
COC Line #6													
COC Line #7													
COC Line #8													
COC Line #9													
COC Line #10													
COC Line #11													
COC Line #12													

Container Size (mL)	Default Preservative Volume (mL)
Container Types 5 / 23	NaOH
250	1.3
Container Type 4	H ₂ SO ₄
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H ₂ SO ₄
500	2.5
Container Types 6 / 15	HNO ₃
125	0.7
250	1.25
500	2.5
1000	5.0

Comments:



Work Order #

4610696

Work Order # 41
Project Chemist

Client	ATC-Simpson/Weber (46-45)	Completed By (initials/date)	aw 04/12/18 ^{aw}
Receipt Log #			

List non-conformance issues associated with this work order in the chart below/left. Identify discrepancies between the COC and sample tags in the chart below/right. Add comments as needed.

[illegible]