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September 5, 2018

Mathew Sam  
Detroit Public Schools  
1601 Farnsworth  
Detroit, Michigan 48202

SUBMITTED VIA EMAIL TO: mathew.sam@detroitk12.org

**SUBJECT:     Drinking Water Screening Report  
                 Law  
                 19411 Cliff Avenue  
                 Detroit, Michigan**

Dear Mr. Sam:

ATC Group Services, LLC (ATC) is pleased to submit this Drinking Water Screening Report for the subject school. The drinking water samples collected from the school were submitted to Pace Analytical Services, LLC, for Michigan Department of Environmental Quality (MDEQ) Drinking Water Certified lead and copper analysis.

**SCOPE OF WORK**

At the request of the Detroit Public Schools (DPS), ATC collected drinking water samples as a general screening for copper and lead at the subject school. The water sampling conducted included the sampling of fixtures within teacher's lounges, kitchens, water fountains and pre-k classrooms. One (1) sample was collected at each outlet: a first draw (Primary) sample. The Primary samples were collected from outlets that had been inactive for a minimum of eight to eighteen hours. The fixture inventory locations including the sample locations are shown on the Fixture Inventory Locations Map included under Attachment A and fixture inventory photos including the sample location photos are included in a Fixture Inventory Photo Log under Attachment B.

The drinking water samples were collected in 125 milliliter, wide-mouth sample containers, containing nitric acid (preservative). Each sample container was labeled utilizing a unique coding system that identified: the type of drinking outlet sampled as well as the location.



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The samples were transported under chain of custody to Pace Analytical Services, LLC, located at 5560 Corporate Exchange Ct. SE Grand Rapids, MI for MDEQ drinking water certified lead and copper analysis, using analytical method EPA 200.8 rev 5.4.

## FINDINGS

Analytical results indicate that 1 of the samples analyzed were above the EPA recommended limits of 15 micrograms per liter (ug/L) for lead. Additionally, three (3) of the samples analyzed were above the EPA recommended limits of 1300 micrograms per liter (ug/L) for copper. The table below summarizes the analytical results for the samples submitted. The laboratory analytical reports and chain of custody are provided in Attachment C.

Table 1 – Water Testing Results (August 20, 2018)

Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
2-Hall-DWF-1	Next to elevator 2	Drinking water fountain	<1.0 ug/L	<b>1340 ug/L</b>
2-Hall-DWF- 2	Next to elevator 2	Drinking water fountain	<1.0 ug/L	<b>1440 ug/L</b>
2-Hall-DWF- 3	Next to elevator 2	Drinking water fountain	<1.0 ug/L	509 ug/L
2-Hall-DWF- 4	Next to elevator 2	Drinking water fountain	<1.0 ug/L	416 ug/L
2-204-B-5	Room 204	Bubbler	<1.0 ug/L	355 ug/L
2-205-B-6	Room 205	Bubbler	<1.0 ug/L	193 ug/L
2-208- 8	Room 208	Bubbler	1.2 ug/L	397 ug/L
2-209-B- 9	Room 209	Bubbler	9.5 ug/L	941 ug/L
2-210-B- 10	Room 210	Bubbler	3.7 ug/L	283 ug/L
2-211-B- 11	Room 211	Bubbler	<1.0 ug/L	212 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
2-212-B- 12	Room 212	Bubbler	6.3 ug/L	447 ug/L
2-214-B- 16	Room 214	Bubbler	3.7 ug/L	10.3 ug/L
2-216-B-18	Room 216	Bubbler	11.8 ug/L	485 ug/L
2-215-B-19	Room 215	Bubbler	1.9 ug/L	443 ug/L
2-217-B-20	Room 217	Bubbler	2.3 ug/L	455 ug/L
2-218-B-21	Room 218	Bubbler	6.0 ug/L	213 ug/L
1-121-B-22	Room 121	Bubbler	1.3 ug/L	180 ug/L
1-122-B-23	Room 122	Bubbler	2.2 ug/L	707 ug/L
1-119-B-24	Room 119	Bubbler	1.5 ug/L	172 ug/L
1-120-B-25	Room 120	Bubbler	<1.0 ug/L	68.1 ug/L
1-117-B-26	Room 117	Bubbler	1.8 ug/L	243 ug/L
1-118-B-27	Room 118	Bubbler	<1.0 ug/L	40.3ug/L
1-115-B-28	Room 115	Bubbler	5.2 ug/L	245 ug/L
1-101-B-29	Room 101	Bubbler	9.5 ug/L	241 ug/L
1-103-B-30	Room 103	Bubbler	<1.0 ug/L	48.5 ug/L
1-105-B-31	Room 105	Bubbler	1.6 ug/L	103 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-106-B-32	Room 106	Bubbler	<1.0 ug/L	72.4 ug/L
1-108-B-36	Room 108	Bubbler	3.0 ug/L	45.5 ug/L
1-110-B-40	Room 110	Bubbler	<1.0 ug/L	23.2 ug/L
1-111-B-44	Room 111	Bubbler	<1.0 ug/L	69.5 ug/L
1-109-B-48	Room 109	Bubbler	1.1 ug/L	292 ug/L
1-107-B-51	Room 107	Bubbler	3.2 ug/L	71.1 ug/L
1-Hall-DWF-54	Across from restroom & Next to gym.	Right side	<1.0 ug/L	286 ug/L
1-K-KS-56	Kitchen	Kitchen sink	1.8 ug/L	335 ug/L
1-K-KS-57	Kitchen	Kitchen sink	1.0 ug/L	229 ug/L
1-K-KS-58	Kitchen	Kitchen sink	<b>75.5 ug/L</b>	508 ug/L
1-K-KS-59	Kitchen	Kitchen sink	1.3 ug/L	268 ug/L
1-K-KS-60	Kitchen	Kitchen sink	3.1 ug/L	458 ug/L
1-K-KS-61	Kitchen	Kitchen sink	1.3 ug/L	306 ug/L
1-K-KS-62	Kitchen	Kitchen sink	2.2 ug/L	379 ug/L
1-Hall-DWF-63	Hall behind kitchen area	Left	<1.0 ug/L	268 ug/L
1-Hall-DWF-64	Hall behind kitchen area	Right	<1.0 ug/L	144 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-SL-SRF-65	Staff lounge- first sink closest to entrance	Staff sink	<1.0 ug/L	86.3 ug/L
1-SL-SRF-66	Staff lounge	Staff sink	4.4 ug/L	<b>1360 ug/L</b>
2-206-B-67	Room 206	Bubbler	5.2 ug/L	8.0 ug/L

Key: NA - Not Analyzed

ug/L- micrograms per liter /parts per billion (ppb)

Analysis of samples of the kitchen sink indicate that lead levels were above the MCL. Analysis of samples of the two drinking water fountains next to elevator #2 and the staff lounge fountain on the 1<sup>st</sup> floor indicate that copper levels were above the MCL. See recommendations below.

## RECOMMENDATIONS

For drinking water fixtures that exceed the MCL after the initial sampling, ATC recommends the following:

1. Implement a plan in accordance with MDEQ Guidance on Drinking Water Sampling for Lead and Copper, April, 2016 Version2; OR
2. Remove fixture from service.
3. Implement a flush plan for fixtures that exceed the MCL of the initial sample according to MDEQ Guidance and the EPA's 3T's for Reducing Lead in Drinking Water in Schools.

## LIMITATIONS

The sampling and analysis completed was: a preliminary screening for lead and copper only, to assess lead and copper concentrations (ug/L) at drinking water outlets in the school designated as high use by DPS, and may not be representative of all drinking water outlets within the school. If lead or copper concentrations were identified above their respective MCL's at any of the drinking water outlets tested, further review of the plumbing system, fixtures affected, and testing may be completed to assess the source of the elevated levels of lead and/or copper, as well as, any other response actions deemed necessary by DPS.



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Future drinking water evaluation and sampling in accordance with the recommendations may be predicated on applicable guidelines by the MDEQ or EPA and will be determined prior to developing a sampling plan for the school.

Sincerely,

**ATC Group Services, LLC**

A handwritten signature in black ink, reading 'Martin K. Gamble'.

Martin K. Gamble  
Senior Project Manager

A handwritten signature in black ink, reading 'Robert C. Smith'.

Robert C. Smith  
Building Science Department Manager

Attachments

Attachment A: Fixture Inventory Locations Map/Form  
Attachment B: Fixture Inventory Photo Log  
Attachment C: Laboratory Analytical Report

School Name:

Law

Address

19411 Cliff Avenue

Fixture Identification	Fixture Location	Fixture Description	Photo #
2-Hall-DWF-1	Next to elevator 2	Drinking water fountain	1
2-Hall-DWF- 2	Next to elevator 2	Drinking water fountain	2
2-Hall-DWF- 3	Next to elevator 2	Drinking water fountain	3
2-Hall-DWF- 4	Next to elevator 2	Drinking water fountain	4
2-204-B-5	Room 204	Bubbler	5
2-205-B-6	Room 205	Bubbler	6
2-207-B- 7	Room 207	Doesn't work	7
2-208-B- 8	Room 208	Bubbler	8
2-209-B- 9	Room 209	Bubbler	9
2-210-B- 10	Room 210	Bubbler	10
2-211-B- 11	Room 211	Bubbler	11
2-212-B- 12	Room 212	Bubbler	12

2- Science-CF- 13	Science room	classroom faucet	13
2- Science-CF- 14	Science room	classroom faucet	14
2- Science-CF- 15	Science room	classroom faucet	15
2-214-B- 16	Room 214	Bubbler	16
2-213-B-17	Room 213	Not Working	17
2-216-B-18	Room 216	Bubbler	18
2-215-B-19	Room 215	Bubbler	19
2-217-B-20	Room 217	Bubbler	20
2-218-B-21	Room 218	Bubbler	21
1-121-B-22	Room 121	Bubbler	22
1-122-B-23	Room 122	Bubbler	23
1-119-B-24	Room 119	Bubbler	24
1-120-B-25	Room 120	Bubbler	25
1-117-B-26	Room 117	Bubbler	26
1-118-B-27	Room 118	Bubbler	27
1-115-B-28	Room 115	Bubbler	28
1-101-B-29	Room 101	Bubbler	29
1-103-B-30	Room 103	Bubbler	30
1-105-B-31	Room 105	Bubbler	31
1-106-B-32	Room 106	Bubbler	32
1-106-CF-33	Room 106 pre-k/kindergarten	classroom faucet	33
1-106-CF-34	Room 106	classroom faucet	34
1-106-CF-35	Room 106	classroom faucet	35
1-108-B-36	Room 108	Bubbler	36
1-108-CF-37	Room 108 pre-k/kindergarten	classroom faucet	37
1-108-CF-38	Room 108	classroom faucet	38
1-108-CF-39	Room 108	classroom faucet	39
1-110-B-40	Room 110	Bubbler	40
1-110-CF-41	Room 110 pre-k/kindergarten	classroom faucet	41
1-110-CF-42	Room 110	classroom faucet	42
1-110-CF-43	Room 110	classroom faucet	43
1-111-B-44	Room 111	Bubbler	44
1-111-CF-45	Room 111 pre-k/kindergarten	classroom faucet	45
1-111-CF-46	Room 111	classroom faucet	46



1-111-CF-47	Room 111	classroom faucet	47
1-109-B-48	Room 109	Bubbler	48
1-109-CF-49	Room 109 pre-k/kindergarten	classroom faucet	49
1-109-BF-50	Room 109	bathroom faucet	50
1-107-B-51	Room 107	Bubbler	51
1-107-CF-52	Room 107 pre-k/kindergarten	classroom faucet	52
1-107-BF-53	Room 107	bathroom faucet	53
1-Hall-DWF-54	Across from restroom & Next to gym. Right side	Drinking water fountain	54
1-Hall-DWF-55	Across from restroom & Next to gym. Left side	Not Working	55
1-K-KS-56	Kitchen	kitchen sink	56
1-K-KS-57	Kitchen	kitchen sink	57
1-K-KS-58	Kitchen	kitchen sink	58
1-K-KS-59	Kitchen	kitchen sink	59
1-K-KS-60	Kitchen	kitchen sink	60
1-K-KS-61	Kitchen	kitchen sink	61
1-K-KS-62	Kitchen	kitchen sink	62
1-Hall-DWF-63	Hall behind kitchen area	Drinking water fountain	63
1-Hall-DWF-64	Hall behind kitchen area	Drinking water fountain	64
1-SL-SRF-65	Staff lounge- first sink closest to entrance	staff sink	65
1-SL-SRF-66	Staff lounge	staff sink	66

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Photo 1: Left drinking water fountain, located next to elevator 2.



Photo 2: Right drinking water fountain, located next to elevator 2.



Photo 3: Left drinking water fountain, located next to elevator 2.



Photo 4: Right drinking water fountain, located next to elevator 2.

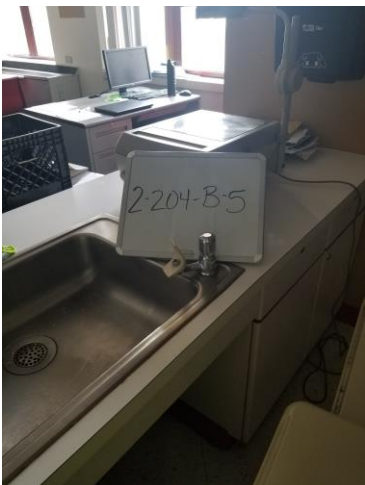


Photo 5: Bubbler in room 204.



Photo 6: Bubbler in room 205.

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Photo 7: Bubbler in room 207.

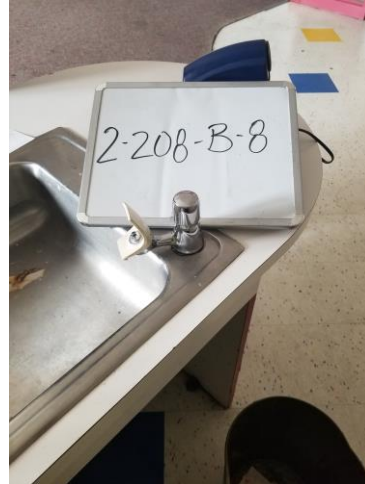


Photo 8: Bubbler in room 208.



Photo 9: Bubbler in room 209.

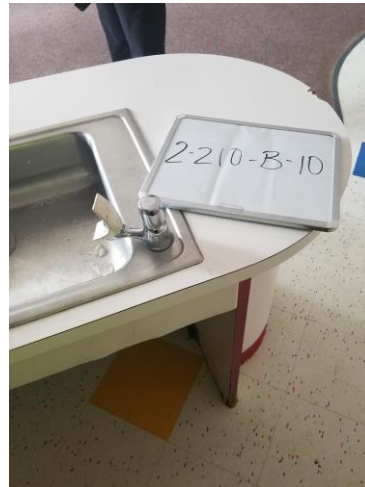


Photo 10: Bubbler in room 210.



Photo 11: Bubbler in room 211.



Photo 12: Bubbler in room 212.

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Photo 13: Classroom faucet in the science room.



Photo 14: Classroom faucet in the science room.

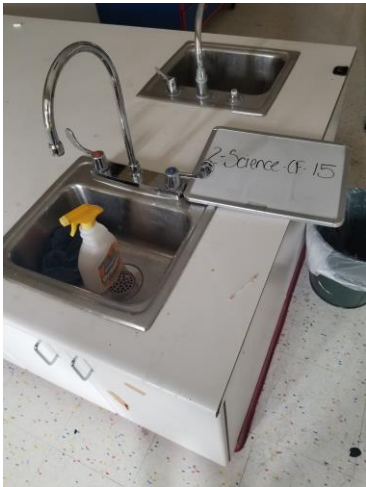


Photo 15: Classroom faucet in the science room.

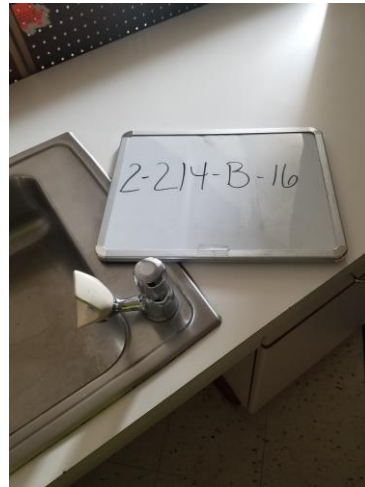


Photo 16: Bubbler faucet in room 214.

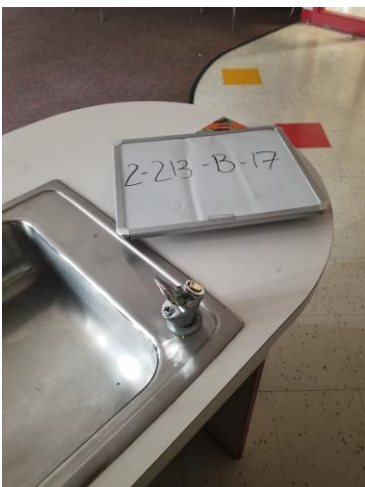


Photo 17: Bubbler in room 213.

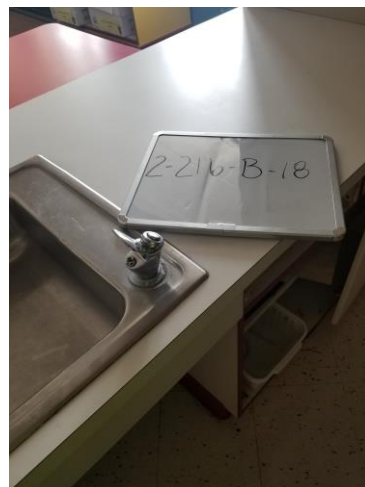


Photo 18: Bubbler in room 216.



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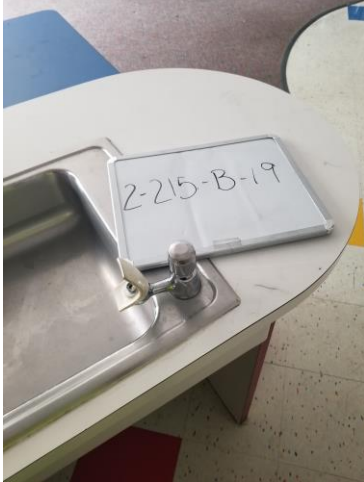


Photo 19: Bubbler in room 215.



Photo 20: Bubbler in room 217.

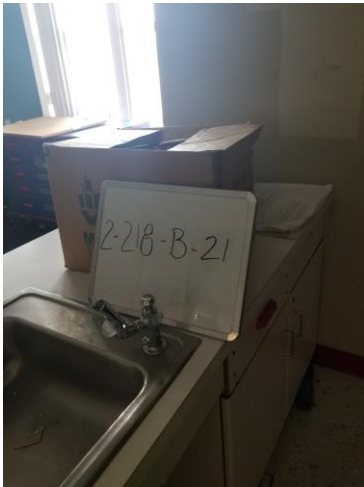


Photo 21: Bubbler in room 218.

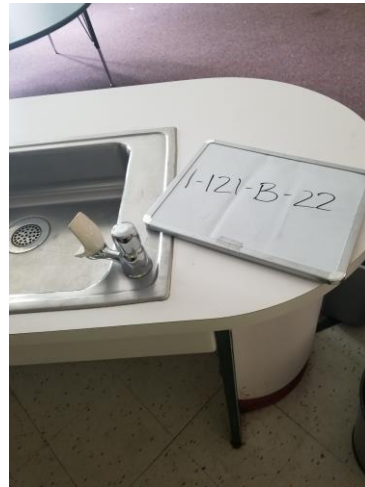


Photo 22: Bubbler in room 121.

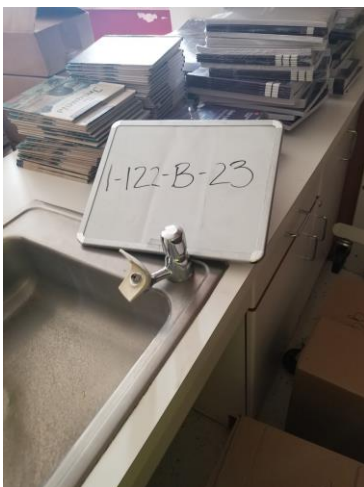


Photo 23: Bubbler in room 122.

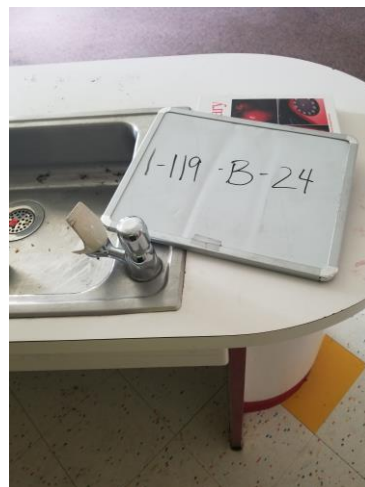


Photo 24: Bubbler in room 119.

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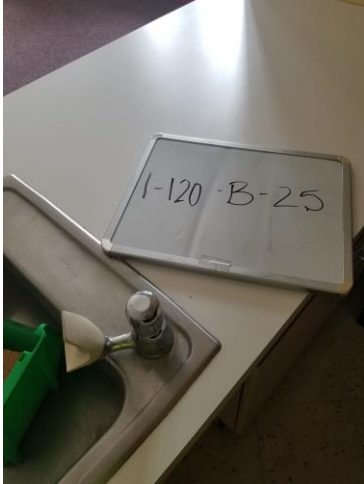


Photo 25: Bubbler in room 120.

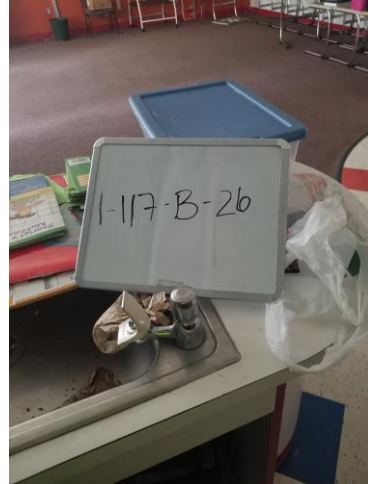


Photo 26: Bubbler in room 117.

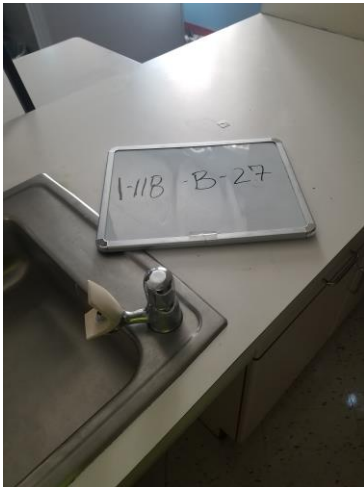


Photo 27: Bubbler in room 118.

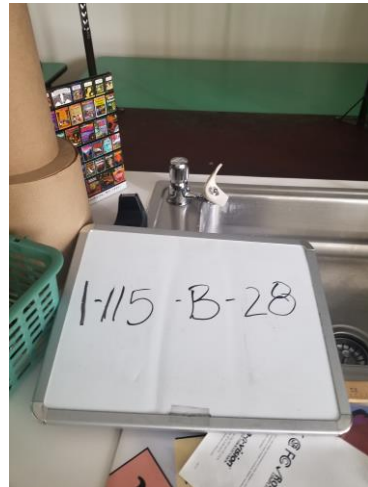


Photo 28: Bubbler in room 115.

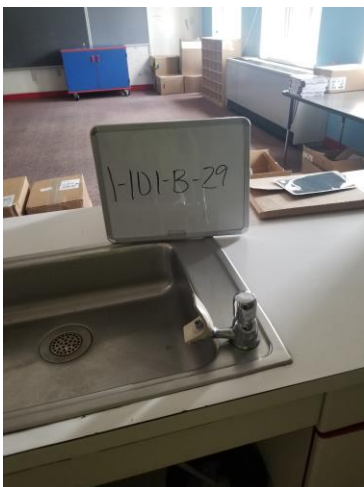


Photo 29: Bubbler in room 101.

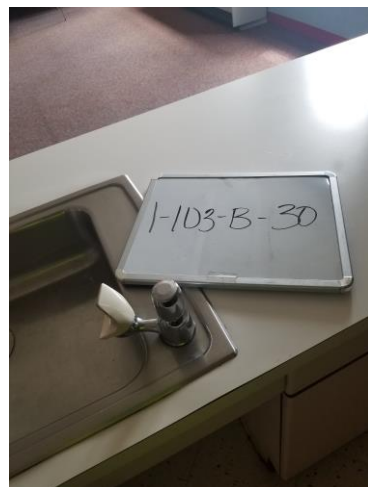


Photo 30: Bubbler in room 103. .

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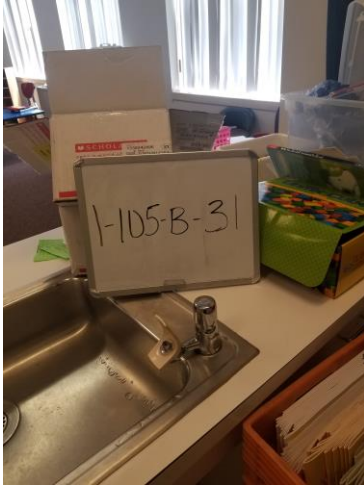


Photo 31: Bubbler in room 105.



Photo 32: Bubbler in room 106.

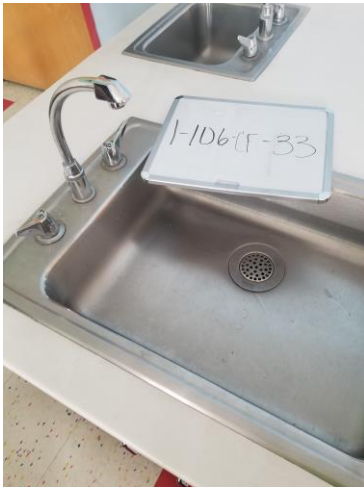


Photo 33: Classroom faucet in room 106.

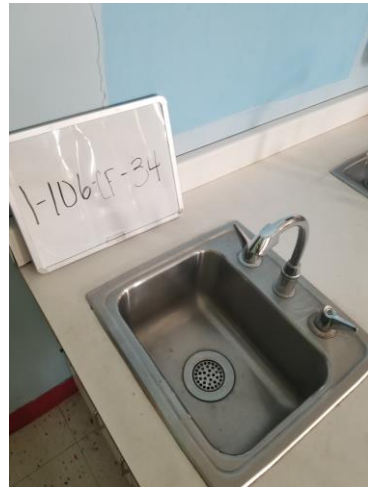


Photo 34: Classroom faucet in room 106.



Photo 35: Classroom faucet in room 106.



Photo 36: Bubbler in room 108.



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Photo 37: Classroom faucet in room 108.



Photo 38: Classroom faucet in room 108.



Photo 39: Classroom faucet in room 108.



Photo 40: Bubbler in room 110.



Photo 41: Classroom faucet in room 110.

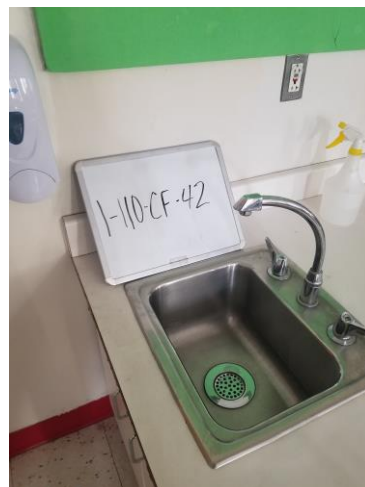


Photo 42: Classroom faucet in room 110.



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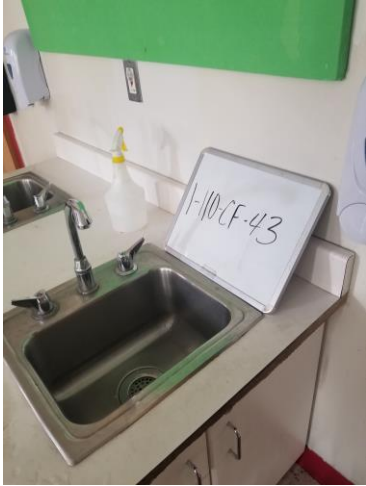


Photo 43: Classroom faucet in room 110.

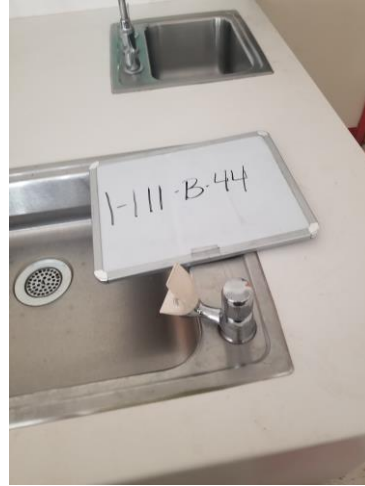


Photo 44: Bubbler in room 111.



Photo 45: Classroom faucet in room 111.



Photo 46: Classroom faucet in room 111.

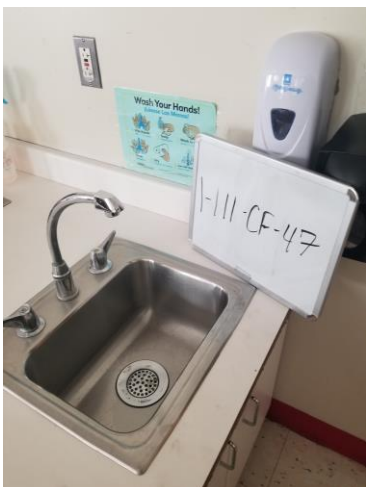


Photo 47: Classroom faucet in room 111.

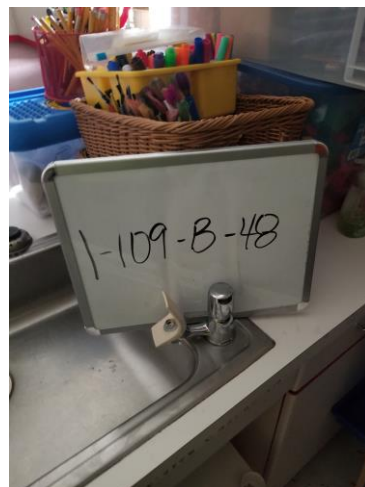


Photo 48: Bubbler in room 109.

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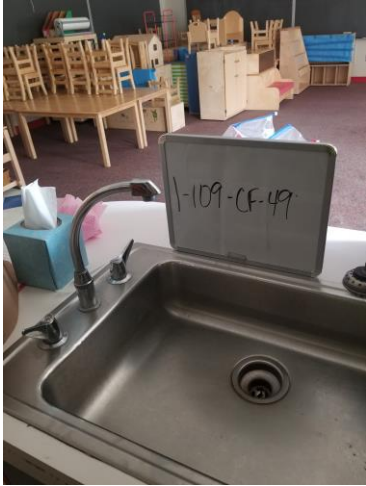


Photo 49: Classroom faucet in room 109.



Photo 50: Bathroom faucet in room 109.

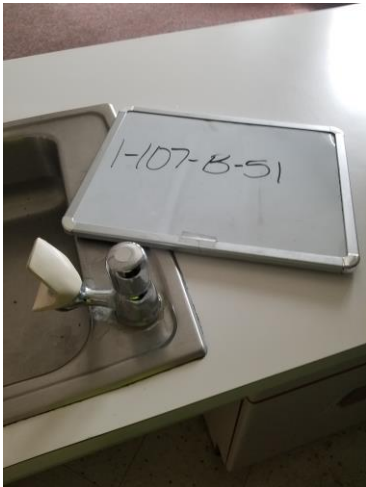


Photo 51: Bubbler in room 107.



Photo 52: Classroom faucet in room 107.



Photo 53: Bathroom faucet in room 107.



Photo 54: Drinking water fountain, next to the gym. On the right side.

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Photo 55: Drinking water fountain, next to the gym. On the left side.



Photo 56: Kitchen sink, located in the kitchen, closest to the door.



Photo 57 Kitchen sink, located in the kitchen.

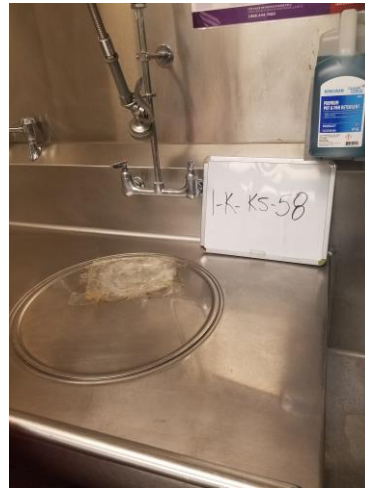


Photo 58: Kitchen sink, located in the kitchen.

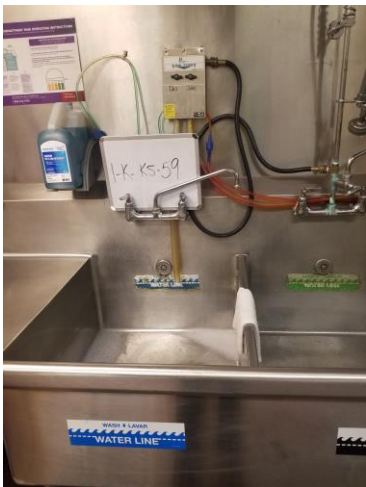


Photo 59: Kitchen sink, located in the kitchen.



Photo 60: Kitchen sink, located in the kitchen.



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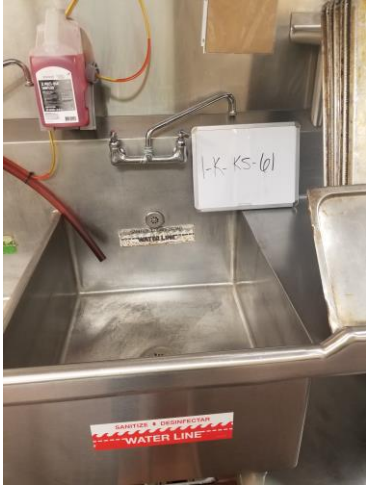


Photo 61: Kitchen sink, located in the kitchen.



Photo 62: Kitchen sink, located in the kitchen.



Photo 63: Left drinking water fountain, behind the kitchen area.



Photo 64: Right drinking water fountain, behind the kitchen area.



Photo 65: Staff room faucet, located in the staff lounge on the 1<sup>st</sup> floor. Room closest to the main entrance. .



Photo 66: Staff room faucet, located in the staff lounge on the 1<sup>st</sup> floor..

August 20, 2018

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

RE: Project: DW-Law  
Pace Project No.: 4616071

Dear Robert Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 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,



Will Cole  
will.cole@pacelabs.com  
(616)975-4500  
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-Law

Pace Project No.: 4616071

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### 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  
#18-046-0

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 #57971 and  
57972

North Carolina Division of Water Resources, Certificate  
#659

Virginia Department of General Services, Certificate #9780

Wisconsin Department of Natural Resources, Laboratory  
#999472650

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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: DW-Law  
Pace Project No.: 4616071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4616071001	2-Hall-DWF-1	Drinking Water	08/02/18 09:12	08/08/18 17:35
4616071002	2-Hall-DWF-2	Drinking Water	08/02/18 09:13	08/08/18 17:35
4616071003	2-Hall-DWF-3	Drinking Water	08/02/18 09:15	08/08/18 17:35
4616071004	2-Hall-DWF-4	Drinking Water	08/02/18 09:16	08/08/18 17:35
4616071005	2-204-B-5	Drinking Water	08/02/18 09:20	08/08/18 17:35
4616071006	2-205-B-6	Drinking Water	08/02/18 09:21	08/08/18 17:35
4616071007	2-208-8	Drinking Water	08/02/18 09:23	08/08/18 17:35
4616071008	2-209-B-9	Drinking Water	08/02/18 09:24	08/08/18 17:35
4616071009	2-210-B-10	Drinking Water	08/02/18 09:25	08/08/18 17:35
4616071010	2-211-B-11	Drinking Water	08/02/18 09:26	08/08/18 17:35
4616071011	2-212-B-12	Drinking Water	08/02/18 09:27	08/08/18 17:35
4616071012	2-214-B-16	Drinking Water	08/02/18 09:30	08/08/18 17:35
4616071013	2-216-B-18	Drinking Water	08/02/18 09:32	08/08/18 17:35
4616071014	2-215-B-19	Drinking Water	08/02/18 09:33	08/08/18 17:35
4616071015	2-217-B-20	Drinking Water	08/02/18 09:34	08/08/18 17:35
4616071016	2-218-B-21	Drinking Water	08/02/18 09:35	08/08/18 17:35
4616071017	1-121-B-22	Drinking Water	08/02/18 09:40	08/08/18 17:35
4616071018	1-122-B-23	Drinking Water	08/02/18 09:41	08/08/18 17:35
4616071019	1-119-B-24	Drinking Water	08/02/18 09:42	08/08/18 17:35
4616071020	1-120-B-25	Drinking Water	08/02/18 09:43	08/08/18 17:35
4616071021	1-117-B-26	Drinking Water	08/02/18 09:44	08/08/18 17:35
4616071022	1-118-B-27	Drinking Water	08/02/18 09:46	08/08/18 17:35
4616071023	1-115-B-28	Drinking Water	08/02/18 09:47	08/08/18 17:35
4616071024	1-101-B-29	Drinking Water	08/02/18 09:48	08/08/18 17:35
4616071025	1-103-B-30	Drinking Water	08/02/18 09:50	08/08/18 17:35
4616071026	1-105-B-31	Drinking Water	08/02/18 09:51	08/08/18 17:35
4616071027	1-106-B-32	Drinking Water	08/02/18 09:53	08/08/18 17:35
4616071028	1-108-B-36	Drinking Water	08/02/18 09:55	08/08/18 17:35
4616071029	1-110-B-40	Drinking Water	08/02/18 09:57	08/08/18 17:35
4616071030	1-111-B-44	Drinking Water	08/02/18 09:59	08/08/18 17:35
4616071031	1-109-B-48	Drinking Water	08/02/18 10:00	08/08/18 17:35
4616071032	1-107-B-51	Drinking Water	08/02/18 10:02	08/08/18 17:35
4616071033	1-Hall-DWF-54	Drinking Water	08/02/18 10:03	08/08/18 17:35
4616071034	1-K-KS-56	Drinking Water	08/02/18 10:10	08/08/18 17:35
4616071035	1-K-KS-57	Drinking Water	08/02/18 10:11	08/08/18 17:35
4616071036	1-K-KS-58	Drinking Water	08/02/18 10:12	08/08/18 17:35
4616071037	1-K-KS-59	Drinking Water	08/02/18 10:13	08/08/18 17:35

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: DW-Law

Pace Project No.: 4616071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4616071038	1-K-KS-60	Drinking Water	08/02/18 10:14	08/08/18 17:35
4616071039	1-K-KS-61	Drinking Water	08/02/18 10:15	08/08/18 17:35
4616071040	1-K-KS-62	Drinking Water	08/02/18 10:16	08/08/18 17:35
4616071041	1-Hall-DWF-63	Drinking Water	08/02/18 10:17	08/08/18 17:35
4616071042	1-Hall-DWF-64	Drinking Water	08/02/18 10:18	08/08/18 17:35
4616071043	1-SL-SRF-65	Drinking Water	08/02/18 09:05	08/08/18 17:35
4616071044	1-SL-SRF-66	Drinking Water	08/02/18 09:06	08/08/18 17:35
4616071045	2-206-B-67	Drinking Water	08/02/18 09:22	08/08/18 17:35

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## SAMPLE ANALYTE COUNT

Project: DW-Law  
Pace Project No.: 4616071

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4616071001	2-Hall-DWF-1	EPA 200.8	CKD	2
4616071002	2-Hall-DWF-2	EPA 200.8	CKD	2
4616071003	2-Hall-DWF-3	EPA 200.8	CKD	2
4616071004	2-Hall-DWF-4	EPA 200.8	CKD	2
4616071005	2-204-B-5	EPA 200.8	CKD	2
4616071006	2-205-B-6	EPA 200.8	CKD	2
4616071007	2-208-8	EPA 200.8	CKD	2
4616071008	2-209-B-9	EPA 200.8	CKD	2
4616071009	2-210-B-10	EPA 200.8	CKD	2
4616071010	2-211-B-11	EPA 200.8	CKD	2
4616071011	2-212-B-12	EPA 200.8	CKD	2
4616071012	2-214-B-16	EPA 200.8	CKD	2
4616071013	2-216-B-18	EPA 200.8	CKD	2
4616071014	2-215-B-19	EPA 200.8	CKD	2
4616071015	2-217-B-20	EPA 200.8	DWJ	2
4616071016	2-218-B-21	EPA 200.8	CKD	2
4616071017	1-121-B-22	EPA 200.8	CKD	2
4616071018	1-122-B-23	EPA 200.8	CKD	2
4616071019	1-119-B-24	EPA 200.8	CKD	2
4616071020	1-120-B-25	EPA 200.8	CKD	2
4616071021	1-117-B-26	EPA 200.8	CKD	2
4616071022	1-118-B-27	EPA 200.8	CKD	2
4616071023	1-115-B-28	EPA 200.8	CKD	2
4616071024	1-101-B-29	EPA 200.8	CKD	2
4616071025	1-103-B-30	EPA 200.8	CKD	2
4616071026	1-105-B-31	EPA 200.8	CKD	2
4616071027	1-106-B-32	EPA 200.8	CKD	2
4616071028	1-108-B-36	EPA 200.8	CKD	2
4616071029	1-110-B-40	EPA 200.8	CKD	2
4616071030	1-111-B-44	EPA 200.8	CKD	2
4616071031	1-109-B-48	EPA 200.8	CKD	2
4616071032	1-107-B-51	EPA 200.8	CKD	2
4616071033	1-Hall-DWF-54	EPA 200.8	CKD	2
4616071034	1-K-KS-56	EPA 200.8	CKD	2
4616071035	1-K-KS-57	EPA 200.8	CKD	2
4616071036	1-K-KS-58	EPA 200.8	CKD	2
4616071037	1-K-KS-59	EPA 200.8	CKD	2

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: DW-Law

Pace Project No.: 4616071

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4616071038	1-K-KS-60	EPA 200.8	CKD	2
4616071039	1-K-KS-61	EPA 200.8	CKD	2
4616071040	1-K-KS-62	EPA 200.8	CKD	2
4616071041	1-Hall-DWF-63	EPA 200.8	CKD	2
4616071042	1-Hall-DWF-64	EPA 200.8	CKD	2
4616071043	1-SL-SRF-65	EPA 200.8	CKD	2
4616071044	1-SL-SRF-66	EPA 200.8	CKD	2
4616071045	2-206-B-67	EPA 200.8	CKD	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 2-Hall-DWF-1		Lab ID: 4616071001		Collected: 08/02/18 09:12		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>1340</b>	ug/L	20.0	1300	20		08/16/18 15:08	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 13:40	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 2-Hall-DWF-2		Lab ID: 4616071002		Collected: 08/02/18 09:13		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>1440</b>	ug/L	20.0	1300	20		08/16/18 15:13	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 13:45	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 2-Hall-DWF-3		Lab ID: 4616071003		Collected: 08/02/18 09:15		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>509</b>	ug/L	10.0	1300	10		08/16/18 15:50	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 13:46	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 2-Hall-DWF-4		Lab ID: 4616071004		Collected: 08/02/18 09:16		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>416</b>	ug/L	5.0	1300	5		08/16/18 15:51	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 13:47	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 2-204-B-5</b>		<b>Lab ID: 4616071005</b>		Collected: 08/02/18 09:20		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>355</b>	ug/L	5.0	1300	5		08/16/18 15:52	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 13:48	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 2-205-B-6</b>		<b>Lab ID: 4616071006</b>		Collected: 08/02/18 09:21		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>193</b>	ug/L	5.0	1300	5		08/16/18 15:53	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 13:53	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 2-208-8</b>		<b>Lab ID: 4616071007</b>		Collected: 08/02/18 09:23		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>397</b>	ug/L	5.0	1300	5		08/16/18 15:54	7440-50-8	
Lead	<b>1.2</b>	ug/L	1.0	15	1		08/16/18 13:54	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 2-209-B-9</b>		<b>Lab ID: 4616071008</b>		Collected: 08/02/18 09:24		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>941</b>	ug/L	20.0	1300	20		08/16/18 15:55	7440-50-8	
Lead	<b>9.5</b>	ug/L	1.0	15	1		08/16/18 13:55	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 2-210-B-10</b>		<b>Lab ID: 4616071009</b>		Collected: 08/02/18 09:25		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>283</b>	ug/L	5.0	1300	5		08/16/18 15:56	7440-50-8	
Lead	<b>3.7</b>	ug/L	1.0	15	1		08/16/18 13:57	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 2-211-B-11		Lab ID: 4616071010		Collected: 08/02/18 09:26		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>212</b>	ug/L	5.0	1300	5		08/16/18 15:57	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 13:58	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 2-212-B-12		Lab ID: 4616071011		Collected: 08/02/18 09:27		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>447</b>	ug/L	10.0	1300	10		08/16/18 15:58	7440-50-8	
Lead	<b>6.3</b>	ug/L	1.0	15	1		08/16/18 13:59	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 2-214-B-16		Lab ID: 4616071012		Collected: 08/02/18 09:30		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>10.3</b>	ug/L	1.0	1300	1		08/16/18 14:03	7440-50-8	
Lead	<b>3.7</b>	ug/L	1.0	15	1		08/16/18 14:03	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 2-216-B-18		Lab ID: 4616071013		Collected: 08/02/18 09:32		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>485</b>	ug/L	10.0	1300	10		08/16/18 17:05	7440-50-8	
Lead	<b>11.8</b>	ug/L	1.0	15	1		08/16/18 14:07	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 2-215-B-19</b>		<b>Lab ID: 4616071014</b>		Collected: 08/02/18 09:33		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>443</b>	ug/L	10.0	1300	10		08/16/18 17:06	7440-50-8	
Lead	<b>1.9</b>	ug/L	1.0	15	1		08/16/18 14:08	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 2-217-B-20</b>		<b>Lab ID: 4616071015</b>		Collected: 08/02/18 09:34		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 ICPMS Metals, Total</b>		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Copper	<b>455</b>	ug/L	10.0	1300	10	08/10/18 07:19	08/14/18 09:24	7440-50-8	
Lead	<b>2.3</b>	ug/L	1.0	15	1	08/10/18 07:19	08/14/18 08:26	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 2-218-B-21		Lab ID: 4616071016		Collected: 08/02/18 09:35		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>213</b>	ug/L	5.0	1300	5		08/16/18 17:08	7440-50-8	
Lead	<b>6.0</b>	ug/L	1.0	15	1		08/16/18 14:09	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-121-B-22</b>		<b>Lab ID: 4616071017</b>		Collected: 08/02/18 09:40		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>180</b>	ug/L	5.0	1300	5		08/16/18 17:09	7440-50-8	
Lead	<b>1.3</b>	ug/L	1.0	15	1		08/16/18 14:10	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-122-B-23		Lab ID: 4616071018		Collected: 08/02/18 09:41		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>707</b>	ug/L	10.0	1300	10		08/16/18 17:10	7440-50-8	
Lead	<b>2.2</b>	ug/L	1.0	15	1		08/16/18 14:11	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-119-B-24		Lab ID: 4616071019		Collected: 08/02/18 09:42		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>172</b>	ug/L	5.0	1300	5		08/16/18 17:13	7440-50-8	
Lead	<b>1.5</b>	ug/L	1.0	15	1		08/16/18 14:12	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-120-B-25		Lab ID: 4616071020		Collected: 08/02/18 09:43		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>68.1</b>	ug/L	1.0	1300	1		08/16/18 14:13	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 14:13	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-117-B-26		Lab ID: 4616071021		Collected: 08/02/18 09:44		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>243</b>	ug/L	5.0	1300	5		08/16/18 17:14	7440-50-8	
Lead	<b>1.8</b>	ug/L	1.0	15	1		08/16/18 14:17	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-118-B-27		Lab ID: 4616071022		Collected: 08/02/18 09:46		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>40.3</b>	ug/L	1.0	1300	1		08/16/18 14:24	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 14:24	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-115-B-28</b>		<b>Lab ID: 4616071023</b>		Collected: 08/02/18 09:47		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>245</b>	ug/L	5.0	1300	5		08/16/18 17:19	7440-50-8	
Lead	<b>5.2</b>	ug/L	1.0	15	1		08/16/18 14:25	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-101-B-29</b>		<b>Lab ID: 4616071024</b>		Collected: 08/02/18 09:48		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>241</b>	ug/L	5.0	1300	5		08/16/18 17:20	7440-50-8	
Lead	<b>9.5</b>	ug/L	1.0	15	1		08/16/18 14:27	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-103-B-30		Lab ID: 4616071025		Collected: 08/02/18 09:50		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>48.5</b>	ug/L	1.0	1300	1		08/16/18 14:28	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 14:28	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-105-B-31		Lab ID: 4616071026		Collected: 08/02/18 09:51		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>103</b>	ug/L	5.0	1300	5		08/16/18 17:21	7440-50-8	
Lead	<b>1.6</b>	ug/L	1.0	15	1		08/16/18 14:29	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-106-B-32		Lab ID: 4616071027		Collected: 08/02/18 09:53		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>72.4</b>	ug/L	1.0	1300	1		08/16/18 14:30	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 14:30	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-108-B-36		Lab ID: 4616071028		Collected: 08/02/18 09:55		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>45.5</b>	ug/L	1.0	1300	1		08/16/18 14:31	7440-50-8	
Lead	<b>3.0</b>	ug/L	1.0	15	1		08/16/18 14:31	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-110-B-40		Lab ID: 4616071029		Collected: 08/02/18 09:57		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>23.2</b>	ug/L	1.0	1300	1		08/16/18 14:34	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 14:34	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-111-B-44		Lab ID: 4616071030		Collected: 08/02/18 09:59		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>69.5</b>	ug/L	1.0	1300	1		08/16/18 14:36	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 14:36	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-109-B-48</b>		<b>Lab ID: 4616071031</b>		Collected: 08/02/18 10:00		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>292</b>	ug/L	5.0	1300	5		08/16/18 17:22	7440-50-8	
Lead	<b>1.1</b>	ug/L	1.0	15	1		08/16/18 14:37	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-107-B-51</b>		<b>Lab ID: 4616071032</b>		Collected: 08/02/18 10:02		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>71.1</b>	ug/L	1.0	1300	1		08/16/18 14:41	7440-50-8	
Lead	<b>3.2</b>	ug/L	1.0	15	1		08/16/18 14:41	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-Hall-DWF-54</b>		<b>Lab ID: 4616071033</b>		Collected: 08/02/18 10:03		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>286</b>	ug/L	5.0	1300	5		08/16/18 17:34	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 14:42	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-K-KS-56</b>		<b>Lab ID: 4616071034</b>		Collected: 08/02/18 10:10		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>335</b>	ug/L	5.0	1300	5		08/16/18 16:45	7440-50-8	
Lead	<b>1.8</b>	ug/L	1.0	15	1		08/16/18 14:43	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-K-KS-57		Lab ID: 4616071035		Collected: 08/02/18 10:11		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>229</b>	ug/L	5.0	1300	5		08/16/18 16:46	7440-50-8	
Lead	<b>1.0</b>	ug/L	1.0	15	1		08/16/18 14:45	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-K-KS-58</b>		<b>Lab ID: 4616071036</b>		Collected: 08/02/18 10:12		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>508</b>	ug/L	10.0	1300	10		08/16/18 16:48	7440-50-8	
Lead	<b>75.5</b>	ug/L	1.0	15	1		08/16/18 14:48	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-K-KS-59</b>		<b>Lab ID: 4616071037</b>		Collected: 08/02/18 10:13		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>268</b>	ug/L	5.0	1300	5		08/16/18 16:49	7440-50-8	
Lead	<b>1.3</b>	ug/L	1.0	15	1		08/16/18 14:49	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-K-KS-60		Lab ID: 4616071038		Collected: 08/02/18 10:14		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>458</b>	ug/L	10.0	1300	10		08/16/18 16:50	7440-50-8	
Lead	<b>3.1</b>	ug/L	1.0	15	1		08/16/18 14:50	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-K-KS-61</b>		<b>Lab ID: 4616071039</b>		Collected: 08/02/18 10:15		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>306</b>	ug/L	5.0	1300	5		08/16/18 16:51	7440-50-8	
Lead	<b>1.3</b>	ug/L	1.0	15	1		08/16/18 14:51	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-K-KS-62		Lab ID: 4616071040		Collected: 08/02/18 10:16		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>379</b>	ug/L	5.0	1300	5		08/16/18 16:52	7440-50-8	
Lead	<b>2.2</b>	ug/L	1.0	15	1		08/16/18 14:52	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-Hall-DWF-63		Lab ID: 4616071041		Collected: 08/02/18 10:17		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>268</b>	ug/L	5.0	1300	5		08/16/18 16:54	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 14:56	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-Hall-DWF-64</b>		<b>Lab ID: 4616071042</b>		Collected: 08/02/18 10:18		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>144</b>	ug/L	5.0	1300	5		08/16/18 17:01	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 15:04	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

Sample: 1-SL-SRF-65		Lab ID: 4616071043		Collected: 08/02/18 09:05		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>86.3</b>	ug/L	1.0	1300	1		08/16/18 15:05	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/16/18 15:05	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 1-SL-SRF-66</b>		<b>Lab ID: 4616071044</b>		Collected: 08/02/18 09:06		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>1360</b>	ug/L	20.0	1300	20		08/16/18 17:35	7440-50-8	
Lead	<b>4.4</b>	ug/L	1.0	15	1		08/16/18 15:06	7439-92-1	

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## ANALYTICAL RESULTS

Project: DW-Law

Pace Project No.: 4616071

<b>Sample: 2-206-B-67</b>		<b>Lab ID: 4616071045</b>		Collected: 08/02/18 09:22		Received: 08/08/18 17:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>8.0</b>	ug/L	1.0	1300	1		08/16/18 15:07	7440-50-8	
Lead	<b>5.2</b>	ug/L	1.0	15	1		08/16/18 15:07	7439-92-1	

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## QUALITY CONTROL DATA

Project: DW-Law  
Pace Project No.: 4616071

QC Batch: 30963 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep  
Associated Lab Samples: 4616071001, 4616071002, 4616071003, 4616071004, 4616071005, 4616071006, 4616071007, 4616071008, 4616071009, 4616071010, 4616071011, 4616071012, 4616071013, 4616071014, 4616071016, 4616071017, 4616071018, 4616071019, 4616071020

METHOD BLANK: 124686 Matrix: Water  
Associated Lab Samples: 4616071001, 4616071002, 4616071003, 4616071004, 4616071005, 4616071006, 4616071007, 4616071008, 4616071009, 4616071010, 4616071011, 4616071012, 4616071013, 4616071014, 4616071016, 4616071017, 4616071018, 4616071019, 4616071020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/16/18 13:38	
Lead	ug/L	<1.0	1.0	08/16/18 13:38	

LABORATORY CONTROL SAMPLE: 124687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.5	103	85-115	
Lead	ug/L	20	20.6	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 124688 124689

Parameter	Units	4616071001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	1340	400	400	1780	1770	111	107	70-130	1	20	
Lead	ug/L	<1.0	20	20	21.1	21.2	105	105	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 124691 124692

Parameter	Units	4616071011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	447	200	200	651	643	102	98	70-130	1	20	
Lead	ug/L	6.3	20	20	27.3	27.1	105	104	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-Law  
Pace Project No.: 4616071

QC Batch:	30964	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4616071021, 4616071022, 4616071023, 4616071024, 4616071025, 4616071026, 4616071027, 4616071028, 4616071029, 4616071030, 4616071031, 4616071032, 4616071033, 4616071034, 4616071035, 4616071036, 4616071037, 4616071038, 4616071039, 4616071040		

METHOD BLANK:	124694	Matrix:	Water
Associated Lab Samples:	4616071021, 4616071022, 4616071023, 4616071024, 4616071025, 4616071026, 4616071027, 4616071028, 4616071029, 4616071030, 4616071031, 4616071032, 4616071033, 4616071034, 4616071035, 4616071036, 4616071037, 4616071038, 4616071039, 4616071040		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/16/18 14:15	
Lead	ug/L	<1.0	1.0	08/16/18 14:15	

LABORATORY CONTROL SAMPLE:	124695					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.8	104	85-115	
Lead	ug/L	20	20.6	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	124696			124697								
Parameter	Units	4616071021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	243	100	100	342	342	99	99	70-130	0	20	
Lead	ug/L	1.8	20	20	22.4	22.5	103	103	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	124699			124700								
Parameter	Units	4616071031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	292	100	100	386	389	94	97	70-130	1	20	
Lead	ug/L	1.1	20	20	21.8	21.7	104	103	70-130	1	20	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: DW-Law  
Pace Project No.: 4616071

QC Batch: 30965 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep  
Associated Lab Samples: 4616071041, 4616071042, 4616071043, 4616071044, 4616071045

METHOD BLANK: 124702 Matrix: Water  
Associated Lab Samples: 4616071041, 4616071042, 4616071043, 4616071044, 4616071045

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/16/18 14:54	
Lead	ug/L	<1.0	1.0	08/16/18 14:54	

LABORATORY CONTROL SAMPLE: 124703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	21.4	107	85-115	
Lead	ug/L	20	21.2	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 124704 124705

Parameter	Units	4616071041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	268	100	100	372	370	104	102	70-130	1	20	
Lead	ug/L	<1.0	20	20	21.3	21.1	106	105	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-Law

Pace Project No.: 4616071

QC Batch: 30323

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET

Associated Lab Samples: 4616071015

METHOD BLANK: 121990

Matrix: Water

Associated Lab Samples: 4616071015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/14/18 08:24	
Lead	ug/L	<1.0	1.0	08/14/18 08:24	

LABORATORY CONTROL SAMPLE: 121991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	49.0	98	85-115	
Lead	ug/L	50	48.9	98	85-115	

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-Law  
Pace Project No.: 4616071

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### 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.

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-Law

Pace Project No.: 4616071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4616071001	2-Hall-DWF-1	EPA 200.8	30963		
4616071002	2-Hall-DWF-2	EPA 200.8	30963		
4616071003	2-Hall-DWF-3	EPA 200.8	30963		
4616071004	2-Hall-DWF-4	EPA 200.8	30963		
4616071005	2-204-B-5	EPA 200.8	30963		
4616071006	2-205-B-6	EPA 200.8	30963		
4616071007	2-208-8	EPA 200.8	30963		
4616071008	2-209-B-9	EPA 200.8	30963		
4616071009	2-210-B-10	EPA 200.8	30963		
4616071010	2-211-B-11	EPA 200.8	30963		
4616071011	2-212-B-12	EPA 200.8	30963		
4616071012	2-214-B-16	EPA 200.8	30963		
4616071013	2-216-B-18	EPA 200.8	30963		
4616071014	2-215-B-19	EPA 200.8	30963		
4616071016	2-218-B-21	EPA 200.8	30963		
4616071017	1-121-B-22	EPA 200.8	30963		
4616071018	1-122-B-23	EPA 200.8	30963		
4616071019	1-119-B-24	EPA 200.8	30963		
4616071020	1-120-B-25	EPA 200.8	30963		
4616071021	1-117-B-26	EPA 200.8	30964		
4616071022	1-118-B-27	EPA 200.8	30964		
4616071023	1-115-B-28	EPA 200.8	30964		
4616071024	1-101-B-29	EPA 200.8	30964		
4616071025	1-103-B-30	EPA 200.8	30964		
4616071026	1-105-B-31	EPA 200.8	30964		
4616071027	1-106-B-32	EPA 200.8	30964		
4616071028	1-108-B-36	EPA 200.8	30964		
4616071029	1-110-B-40	EPA 200.8	30964		
4616071030	1-111-B-44	EPA 200.8	30964		
4616071031	1-109-B-48	EPA 200.8	30964		
4616071032	1-107-B-51	EPA 200.8	30964		
4616071033	1-Hall-DWF-54	EPA 200.8	30964		
4616071034	1-K-KS-56	EPA 200.8	30964		
4616071035	1-K-KS-57	EPA 200.8	30964		
4616071036	1-K-KS-58	EPA 200.8	30964		
4616071037	1-K-KS-59	EPA 200.8	30964		
4616071038	1-K-KS-60	EPA 200.8	30964		
4616071039	1-K-KS-61	EPA 200.8	30964		
4616071040	1-K-KS-62	EPA 200.8	30964		
4616071041	1-Hall-DWF-63	EPA 200.8	30965		
4616071042	1-Hall-DWF-64	EPA 200.8	30965		
4616071043	1-SL-SRF-65	EPA 200.8	30965		
4616071044	1-SL-SRF-66	EPA 200.8	30965		
4616071045	2-206-B-67	EPA 200.8	30965		
4616071015	2-217-B-20	EPA 200.8	30323	EPA 200.8	30607

## REPORT OF LABORATORY ANALYSIS

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WO#: 4616071



4616071

Section A

Required Client Information:

Company: ATC Group Services LLC  
Address: 46555 Humboldt Drive, Suite 100  
Novi, MI 48377  
Email: robert.smith@atcgs.com  
Phone: 248-669-5140 Fax 248-669-5147  
Requested Due Date:  
Report To: Robert Smith  
Copy To:  
Purchase Order #:  
Project Name: Lead & Copper Testing  
Project #: Law

Section C

Invoice Information:

Attention:  
Company Name:  
Address:  
Pace Quote:  
Pace Project Manager: Will Cole  
Pace Profile #: Profile 236 - Line 2

Page: 1 Of 4

# CHAIN-OF-CUSTODY / Analytical Request Document

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

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on	Custody	Sealed	Cooler	Samples	
			START	END														
1	Drinking Water	DW			DW G		8/2/18	9:12										
2	Waste Water	WW			DW G		8/2/18	9:13										
3	Product	P			DW G		8/2/18	9:15										
4	Soil/Solid	SL			DW G		8/2/18	9:16										
5	Wipe	WP			DW G		8/2/18	9:20										
6	Air	AR			DW G		8/2/18	9:21										
7	Other	OT			DW G		8/2/18	9:23										
8	Tissue	TS			DW G		8/2/18	9:24										
9					DW G		8/2/18	9:25										
10					DW G		8/2/18	9:26										
11					DW G		8/2/18	9:27										
12					DW G		8/2/18	9:30										
ADDITIONAL COMMENTS																		
RELINQUISHED BY / AFFILIATION																		
DATE																		
TIME																		
ACCEPTED BY / AFFILIATION																		
DATE																		
TIME																		
TEMP in C																		
Received on																		
Custody																		
Sealed																		
Cooler																		
Samples																		





WO# 4616071

# CHAIN-OF-CUSTODY / Analytical Request Document

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

#20244

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: ATC Group Services LLC	Report To: Robert Smith	Copy To:	Attention:	Page : 2 Of 4	
Address: 46555 Humboldt Drive, Suite 100			Company Name:		
Novi, MI 48377			Address:		
Email: robert.smith@atcgs.com	Purchase Order #:		Pace Quote:		
Phone: 248-669-5140	Project Name: Lead & Copper Testing		Pace Project Manager: Will Cole		
Requested Due Date:	Project #:		Pace Profile #: Profile 236 - Line 2		
			Law		

ITEM #	MATRIX Drinking Water Water Waste Water Product Solid/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	SAMPLE TYPE (see valid codes to left)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Lead & Copper	Residual Chlorine (Y/N)
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					
				DATE	TIME	DATE	TIME															
13			DW G	8/2/18	9:32				1		X									X		
14			DW G	8/2/18	9:33				1		X									X		
15			DW G	8/2/18	9:34				1		X									X		
16			DW G	8/2/18	9:35				1		X									X		
17			DW G	8/2/18	9:40				1		X									X		
18			DW G	8/2/18	9:41				1		X									X		
19			DW G	8/2/18	9:42				1		X									X		
20			DW G	8/2/18	9:43				1		X									X		
21			DW G	8/2/18	9:44				1		X									X		
22			DW G	8/2/18	9:45				1		X									X		
23			DW G	8/2/18	9:47				1		X									X		
24			DW G	8/2/18	9:48				1		X									X		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	







## CHAIN-OF-CUSTODY / Analytical Request Document

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

#20246

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	ATC Group Services LLC	Report To:	Robert Smith	Attention:	
Address:	46555 Humboldt Drive, Suite 100	Copy To:		Company Name:	
	Novi, MI 48377			Address:	
Email:	robert.smith@atcgs.com	Purchase Order #:		Pace Quote:	
Phone:	248-669-5140	Project Name:	Lead & Copper Testing	Pace Project Manager:	Will Cole
Requested Due Date:		Project #:	Law	Pace Profile #:	Profile 236 - Line 2
				Regulatory Agency	
				State / Location	
				...	

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		Requested Analysis Filtered (Y/N)
			START	END		DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME			
	MATRIX Drinking Water Waste Water Product Solid/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS																		



# SAMPLE RECEIVING / LOG-IN CHECKLIST

Pace Analytical®

Client <b>ATC-LAW</b>	Work Order # <b>4616071</b>
Receipt Record Page/Line # <b>(41-15)</b>	

Recorded by (initials/date) <b>aw 08/08/18</b>	<input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other	Qty Received <b>1</b> <input type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Thermometer Used <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> IR Gun (#402)
--	--	--

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time	
	<b>2300</b>							
<b>Custody Seals:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		<b>Custody Seals:</b> <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		<b>Custody Seals:</b> <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		<b>Custody Seals:</b> <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
<b>Coolant Type:</b> <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		<b>Coolant Type:</b> <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		<b>Coolant Type:</b> <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		<b>Coolant Type:</b> <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		
<b>Coolant Location:</b> 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		<b>Coolant Location:</b> 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		<b>Coolant Location:</b> 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		<b>Coolant Location:</b> 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	Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	
Temp Blank:			Temp Blank:			Temp Blank:		
Sample 1: <b>24.6</b>		<b>24.6</b>	Sample 1:			Sample 1:		
Sample 2: <b>24.8</b>		<b>24.8</b>	Sample 2:			Sample 2:		
Sample 3: <b>24.7</b>		<b>24.7</b>	Sample 3:			Sample 3:		
<b>When above 6 °C take a</b> <b>3 Sample Average °C: <b>24.7</b></b>			<b>When above 6 °C take a</b> <b>3 Sample Average °C:</b>			<b>When above 6 °C take a</b> <b>3 Sample Average °C:</b>		
<input type="checkbox"/> VOC Trip Blank received?			<input type="checkbox"/> VOC Trip Blank received?			<input type="checkbox"/> VOC Trip Blank received?		

If any shaded areas checked, complete Sample Receiving Non-Conformance

## 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 checked="" type="checkbox"/>	USDA Soil Documents?
<input checked="" type="checkbox"/>	Sampling / Field Forms?
<input checked="" type="checkbox"/>	Other _____

## COC Information

<input checked="" type="checkbox"/> Pace COC	<input type="checkbox"/> Other _____
--	--------------------------------------

COC ID Numbers:

**20243, 20244, 20245, 20246**

## 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"/>	<input checked="" type="checkbox"/> All containers indicated are received?

## Sample Condition Summary

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

## Check Sample Preservation

N/A	Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Temperature Blank OR average sample temperature, ≥6° C?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> If "Yes" was thermal preservation required?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> If "Yes" were ALL samples collected the same day as receipt?
<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 checked="" type="checkbox"/>	<input type="checkbox"/>	If "No", add wire tag and fill out Non-Conformance Form?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Received unpreserved Terracore kit?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	If "Yes" unpreserved vials must be frozen

## Work Order Not Logged In with Short Hold / Rush

<input type="checkbox"/> Copies of COC To Lab Areas
---

## Notes

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/> Were all samples logged into Epic?
<input checked="" type="checkbox"/>	<input type="checkbox"/> Were all samples labelled?
<input checked="" type="checkbox"/>	<input type="checkbox"/> Were samples placed on scan locations?

Initial / Date : **aw 08/08/18**



# AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client <b>ATC - Law</b>	Completed By (initials/date) <b>eww 08/08/18</b>	Work Order # <b>466071</b>
Receipt Log # <b>(41-15)</b>		

COC ID # <b>20243</b>										Adjusted by: _____ Date: _____			
Container Type	BP3C or AG3O		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved				
Preservative	NaOH >12		H <sub>2</sub> SO <sub>4</sub> <2		H <sub>2</sub> SO <sub>4</sub> <2		HNO <sub>3</sub> <2		HNO <sub>3</sub> <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:

pH Strip  
Reagent or Lot #  
☒ **HC739245**  
☐ 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 (project manager will review all adjustments at work order release). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach a wire tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

COC ID # <b>20244</b>										Adjusted by: _____ Date: _____			
Container Type	BP3C or AG3O		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved				
Preservative	NaOH >12		H <sub>2</sub> SO <sub>4</sub> <2		H <sub>2</sub> SO <sub>4</sub> <2		HNO <sub>3</sub> <2		HNO <sub>3</sub> <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 <sub>2</sub> SO <sub>4</sub>
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H <sub>2</sub> SO <sub>4</sub>
500	2.5
Container Types 6 / 15	HNO <sub>3</sub>
125	0.7
250	1.25
500	2.5
1000	5.0

# AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client <b>ATC - Law</b>	Completed By (initials/date) <b>AW 08/08/18</b>	Work Order # <b>4616071</b>
Receipt Log # <b>(41-15)</b>		

COC ID # <b>20245</b>						Adjusted by: _____ Date: _____						
Container Type	BP3C or AG3O		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved			
Preservative	NaOH >12		H <sub>2</sub> SO <sub>4</sub> <2		H <sub>2</sub> SO <sub>4</sub> <2		HNO <sub>3</sub> <2		HNO <sub>3</sub> <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"/>	HC739245
<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 (project manager will review all adjustments at work order release). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach a wire tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

Comments:

COC ID # <b>20246</b>						Adjusted by: _____ Date: _____						
Container Type	BP3C or AG3O		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved			
Preservative	NaOH >12		H <sub>2</sub> SO <sub>4</sub> <2		H <sub>2</sub> SO <sub>4</sub> <2		HNO <sub>3</sub> <2		HNO <sub>3</sub> <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 <sub>2</sub> SO <sub>4</sub>
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H <sub>2</sub> SO <sub>4</sub>
500	2.5
Container Types 6 / 15	HNO <sub>3</sub>
125	0.7
250	1.25
500	2.5
1000	5.0

Comments: