



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

West Side Academy 4701 McKinley 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.



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**

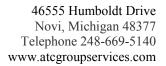
Analytical results indicate that 2 of the samples analyzed were above the EPA recommended limits of 15 micrograms per liter (ug/L) for lead. Additionally, 2 of the samples analyzed were above the EPA recommended limits of 1300 micrograms per liter (ug/L) for copper. The table below summarizes the analytical results for the samples submitted. The laboratory analytical reports and chain of custody are provided in Attachment C.

Table 1 – Water Testing Results (August 22, 2018)

Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-Hall- B- 1	Next to room JC 115, across from gym	left	<1.0 ug/L	910 ug/L
1-Hall- B-2	Next to room JC 115, across from gym	right	<1.0 ug/L	958 ug/L
1-K-SRF- 4	Kitchen at Multi- Purpose Room	sink	2.2 ug/L	132 ug/L
1-Hall- B- 5	Across from room 117 Custodian's Office	left	13.2 ug/L	282 ug/L
1-Hall- B-6	Across from room 117 Custodian's Office	right	1.8 ug/L	186 ug/L
1-Hall- DWF- 7	Next to front entrance & elevator equipment room	left	<1.0 ug/L	482 ug/L
1-Hall- DWF- 8	Next to front entrance & elevator equipment room	right	<1.0 ug/L	405 ug/L
1-SL-SRF- 9	Staff Lounge	Staff sink	<1.0 ug/L	419 ug/L
1-K-KS-19	Kitchen	3 chamber sink, left	63.1 ug/L	384 ug/L
1-K-KS-20	Kitchen	3 chamber sink, center	19.9 ug/L	345 ug/L



Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-102-B-23	Room 102	bubbler w/ sink and 2nd sink	<1.0 ug/L	1230 ug/L
1-103-B-24	Room 103	bubbler w/ sink and 2nd sink	2.4 ug/L	543 ug/L
1-111-B-25	Room 111	bubbler w/ sink and 2nd sink	3.0 ug/L	1350 ug/L
1-110-B-26	Room 110	bubbler w/ sink and 2nd sink	<1.0 ug/L	374 ug/L
1-109-B-27	Room 109	bubbler w/ sink and 2nd sink	<1.0 ug/L	395 ug/L
1-108-B-28	Room 108	bubbler w/ sink and 2nd sink	1 1.0 48/ 5	
1-105-B-29	Room 105	bubbler w/ sink and 2nd sink	1.6 ug/L	583 ug/L
4 404 B 20		bubbler w/ sink and 2nd sink. Bubbler not working well; sampled sink associated with	8.1 ug/L	701 ug/L
1-104-B-30	Room 104	bubbler.		
1-107-B-31	Room 107	bubbler w/ sink and 2nd sink	1.1 ug/L	339 ug/L
2-Hall-DWF- 17	Across from room 208	left	<1.0 ug/L	284 ug/L
2-Hall-DWF- 18	Across from room 208	right	<1.0 ug/L	390 ug/L
2-207-DWF- 15	Room 207 Cafeteria	left	<1.0 ug/L	759 ug/L
2-207-DWF- 16	Room 207 Cafeteria	right	<1.0 ug/L	2330 ug/L
2-K-KS-12	Kitchen	3 chamber sink, left	<1.0 ug/L	436 ug/L





Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
2-K-KS- 13	Kitchen	3 chamber sink, center	1.1 ug/L	425 ug/L
2-Hall-DWF-11	Across from Room 213, right of Kitchen	right	<1.0 ug/L	761 ug/L

Key: NA - Not Analyzed

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

Analysis of samples of the two kitchen 3 chamber sinks indicate that lead levels were above the MCL. Additionally, analysis of the bubbler in room 111 and the drinking water fountain in room 207 cafeteria samples 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 plumping 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.

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.



46555 Humboldt Drive Novi, Michigan 48377 Telephone 248-669-5140 www.atcgroupservices.com

Sincerely,

**ATC Group Services, LLC** 

Marta & Samble

Martin K. Gamble

Senior Project Manager

Robert C. Smith

**Building Science Department Manager** 

Robert C. Kiniz

# **Attachments**

Attachment A: Fixture Inventory Locations Map/Form

Attachment B: Fixture Inventory Photo Log Attachment C: Laboratory Analytical Report School Name: West Side Academy

Address 4701 McKinley

Fixture Identification	Fixture Location	Fixture Description	Photo #
1-Hall- B- 1	Next to room JC 115, across from gym	left	1
1-Hall- B-2	Next to room JC 115, across from gym	right	2
1-Hall- B- 3	Next to kitchen, across from room 101	NOT WORKING	3
1-K-SRF- 4	Kitchen at Multi-Purpose Room	sink	4
1-Hall- B- 5	Across from room 117 Custodian's Office	left	5
1-Hall- B-6	Across from room 117 Custodian's Office	right	6
1-Hall- DWF- 7	Next to front entrance & elevator equipment room	left	7
1-Hall- DWF- 8	Next to front entrance & elevator equipment room	right	8
1-SL-SRF- 9	Staff Lounge		9
2-Hall-DWF-10	Across from Room 213, right of Kitchen	left, NOT WORKING	10
2-Hall-DWF-11	Across from Room 213, right of Kitchen	right	11
2-K-KS-12	Kitchen	3 chamber sink, left	12

2-K-KS- 13	Kitchen	3 chamber sink, center	13
2-K-KS-14	Kitchen	Dishwasher, spray nozzle	14
2-207-DWF- 15	Room 207 Cafeteria	left	15
2-207-DWF- 16	Room 207 Cafeteria	right	16
2-Hall-DWF- 17	Across from room 208	left	17
2-Hall-DWF- 18	Across from room 208	right	18
1-K-KS-19	Kitchen	3 chamber sink, left	19
1-K-KS-20	Kitchen	3 chamber sink, center	20
1-K-KS-21	Kitchen	Dishwasher, spray nozzle	21
1-K-KS-22	Kitchen	hand sink	22
1-102-B-23	Room 102	bubbler w/ sink and 2nd sink	23
1-103-B-24	Room 103	bubbler w/ sink and 2nd sink	24
1-111-B-25	Room 111	bubbler w/ sink and 2nd sink	25
1-110-B-26	Room 110	bubbler w/ sink and 2nd sink	26
1-109-B-27	Room 109	bubbler w/ sink and 2nd sink	27
1-108-B-28	Room 108	bubbler w/ sink and 2nd sink	28
1-105-B-29	Room 105	bubbler w/ sink and 2nd sink	29
		bubbler w/ sink and 2nd sink.	
		Bubbler not working well; sampled sink associated	
1-104-B-30	Room 104	with bubbler.	30
1-107-B-31	Room 107	bubbler w/ sink and 2nd sink	31
2-SL-SRF-32	Staff Lounge	converted to office, custodian no key	32
2-K-KS-33	Kitchen, 2nd floor	hand sink	33



Photo 1: Bubbler near 115.



Photo 3: Bubbler in the older building, next to the kitchen.



Photo 5: Bubbler across from 117.



Photo 2: Bubbler near 115.



Photo 4: Staff room faucet, located in the kitchen, across from 101. .



Photo 6: Bubbler across from 117.



Photo 7: Drinking water faucet, near the front entrance and the elevator equipment room.



Photo 9: Staff room faucet, located in the staff lounge, next to the kitchen.



Photo 11: Drinking water faucet next to 213.



Photo 8: Drinking water faucet, near the front entrance and the elevator equipment room.



Photo 10: Drinking water faucet next to 213.



Photo 12: Kitchen sink, on the 2<sup>nd</sup> floor in the kitchen. From left to right.



Photo 13: Kitchen sink, on the 2<sup>nd</sup> floor in the kitchen. From left to right.



Photo 15: Drinking water faucet in 207.



Photo 17: Drinking water faucet across from 208.



Photo 14: Kitchen sink, on the 2<sup>nd</sup> floor in the kitchen. From left to right.



Photo 16: Drinking water faucet in 207.



Photo 18: Drinking water faucet across from 208.



Photo 19: Kitchen sink, on the1st floor in the kitchen. From left to right.



Photo 21: Kitchen sink, on the1st floor in the kitchen. From left to right.



Photo 23: Bubbler in 102.



Photo 20: Kitchen sink, on the1st floor in the kitchen. From left to right.



Photo 22: Kitchen sink, on the1st floor in the kitchen. From left to right.



Photo 24: Bubbler in 103.



Photo 25: Bubbler in 111.



Photo 27: Bubbler in 109.

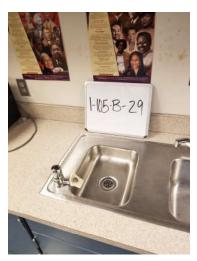


Photo 29: Bubbler in 105.



Photo 26: Bubbler in 110.

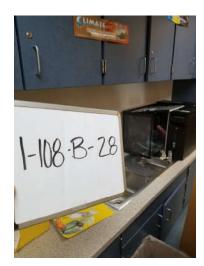


Photo 28: Bubbler in 108.



Photo 30: Bubbler in 104.

# FIXTURE INVENTORY PHOTOLOG

West Side Academy 4701 McKinley Street Detroit, Michigan



Photo 31: Bubbler in 107.



Photo 32: Staff room faucet, located on the 2<sup>nd</sup> floor in the staff lounge.





August 22, 2018

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

RE: Project: West Side Academy

Pace Project No.: 4616086

#### 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







#### **CERTIFICATIONS**

Project: West Side Academy

Pace Project No.: 4616086

#### **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



## **SAMPLE SUMMARY**

Project: West Side Academy

Pace Project No.: 4616086

4616086001         1-Hall-B-1         Drinking Water         08/03/18 08:38         08/08/18 17:35           4616086002         1-Hall-B-2         Drinking Water         08/03/18 08:38         08/08/18 17:35           4616086003         1-K-SRF-4         Drinking Water         08/03/18 08:42         08/08/18 17:35           4616086004         1-Hall-B-5         Drinking Water         08/03/18 08:45         08/08/18 17:35           4616086005         1-Hall-DWF-7         Drinking Water         08/03/18 08:51         08/08/18 17:35           4616086006         1-Hall-DWF-8         Drinking Water         08/03/18 08:55         08/08/18 17:35           4616086007         1-Hall-DWF-8         Drinking Water         08/03/18 08:55         08/08/18 17:35           4616086009         1-K-KS-19         Drinking Water         08/03/18 08:59         08/08/18 17:35           4616086010         1-K-KS-20         Drinking Water         08/03/18 08:59         08/08/18 17:35           4616086011         1-102-B-23         Drinking Water         08/03/18 09:04         08/08/18 17:35           4616086012         1-102-B-24         Drinking Water         08/03/18 09:15         08/08/18 17:35           4616086013         1-111-B-25         Drinking Water         08/03/18 09:23         08/08/18 17:35	Lab ID	Sample ID	Matrix	Date Collected	Date Received
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4616086005         1-Hall-B-6         Drinking Water         08/03/18 08:45         08/08/18 17:35           4616086006         1-Hall-DWF-7         Drinking Water         08/03/18 08:51         08/08/18 17:35           4616086007         1-Hall-DWF-8         Drinking Water         08/03/18 08:51         08/08/18 17:35           4616086008         1-SL-SRF-9         Drinking Water         08/03/18 08:55         08/08/18 17:35           4616086010         1-K-KS-19         Drinking Water         08/03/18 08:59         08/08/18 17:35           4616086011         1-102-B-23         Drinking Water         08/03/18 09:04         08/08/18 17:35           4616086012         1-102-B-24         Drinking Water         08/03/18 09:10         08/08/18 17:35           4616086013         1-111-B-25         Drinking Water         08/03/18 09:15         08/08/18 17:35           4616086014         1-110-B-26         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086015         1-109-B-27         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086017         1-105-B-29         Drinking Water         08/03/18 09:25         08/08/18 17:35           4616086018         1-104-B-30         Drinking Water         08/03/18 09:35         08/08/18 17:35	4616086003	1-K-SRF-4	Drinking Water	08/03/18 08:42	08/08/18 17:35
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4616086007         1-Hall-DWF-8         Drinking Water         08/03/18 08:51         08/08/18 17:35           4616086008         1-SL-SRF-9         Drinking Water         08/03/18 08:55         08/08/18 17:35           4616086009         1-K-KS-19         Drinking Water         08/03/18 08:59         08/08/18 17:35           4616086010         1-K-KS-20         Drinking Water         08/03/18 09:04         08/08/18 17:35           4616086011         1-102-B-23         Drinking Water         08/03/18 09:10         08/08/18 17:35           4616086012         1-102-B-24         Drinking Water         08/03/18 09:10         08/08/18 17:35           4616086013         1-111-B-25         Drinking Water         08/03/18 09:15         08/08/18 17:35           4616086014         1-110-B-26         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086015         1-109-B-27         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086016         1-108-B-28         Drinking Water         08/03/18 09:25         08/08/18 17:35           4616086017         1-105-B-29         Drinking Water         08/03/18 09:30         08/08/18 17:35           4616086019         1-107-B-31         Drinking Water         08/03/18 09:35         08/08/18 17:35	4616086005	1-Hall-B-6	Drinking Water	08/03/18 08:45	08/08/18 17:35
4616086008         1-SL-SRF-9         Drinking Water         08/03/18 08:55         08/08/18 17:35           4616086009         1-K-KS-19         Drinking Water         08/03/18 08:59         08/08/18 17:35           4616086010         1-K-KS-20         Drinking Water         08/03/18 09:04         08/08/18 17:35           4616086011         1-102-B-23         Drinking Water         08/03/18 09:04         08/08/18 17:35           4616086012         1-102-B-24         Drinking Water         08/03/18 09:10         08/08/18 17:35           4616086013         1-111-B-25         Drinking Water         08/03/18 09:15         08/08/18 17:35           4616086014         1-110-B-26         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086015         1-109-B-27         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086016         1-108-B-28         Drinking Water         08/03/18 09:25         08/08/18 17:35           4616086017         1-105-B-29         Drinking Water         08/03/18 09:30         08/08/18 17:35           4616086019         1-107-B-31         Drinking Water         08/03/18 09:32         08/08/18 17:35           4616086020         2-Hall-DWF-17         Drinking Water         08/03/18 09:35         08/08/18 17:35	4616086006	1-Hall-DWF-7	Drinking Water	08/03/18 08:51	08/08/18 17:35
4616086009         1-K-KS-19         Drinking Water         08/03/18 08:59         08/08/18 17:35           4616086010         1-K-KS-20         Drinking Water         08/03/18 08:59         08/08/18 17:35           4616086011         1-102-B-23         Drinking Water         08/03/18 09:04         08/08/18 17:35           4616086012         1-102-B-24         Drinking Water         08/03/18 09:10         08/08/18 17:35           4616086013         1-111-B-25         Drinking Water         08/03/18 09:15         08/08/18 17:35           4616086014         1-109-B-26         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086015         1-109-B-27         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086016         1-108-B-28         Drinking Water         08/03/18 09:25         08/08/18 17:35           4616086017         1-105-B-29         Drinking Water         08/03/18 09:30         08/08/18 17:35           4616086019         1-107-B-31         Drinking Water         08/03/18 09:32         08/08/18 17:35           4616086020         2-Hall-DWF-17         Drinking Water         08/03/18 09:35         08/08/18 17:35           4616086021         2-Hall-DWF-18         Drinking Water         08/03/18 09:41         08/08/18 17:35 <td>4616086007</td> <td>1-Hall-DWF-8</td> <td>Drinking Water</td> <td>08/03/18 08:51</td> <td>08/08/18 17:35</td>	4616086007	1-Hall-DWF-8	Drinking Water	08/03/18 08:51	08/08/18 17:35
4616086010         1-K-KS-20         Drinking Water         08/03/18 08:59         08/08/18 17:35           4616086011         1-102-B-23         Drinking Water         08/03/18 09:04         08/08/18 17:35           4616086012         1-102-B-24         Drinking Water         08/03/18 09:10         08/08/18 17:35           4616086013         1-111-B-25         Drinking Water         08/03/18 09:15         08/08/18 17:35           4616086014         1-110-B-26         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086015         1-109-B-27         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086016         1-108-B-28         Drinking Water         08/03/18 09:25         08/08/18 17:35           4616086017         1-105-B-29         Drinking Water         08/03/18 09:30         08/08/18 17:35           4616086018         1-104-B-30         Drinking Water         08/03/18 09:32         08/08/18 17:35           4616086020         2-Hall-DWF-17         Drinking Water         08/03/18 09:35         08/08/18 17:35           4616086021         2-Hall-DWF-18         Drinking Water         08/03/18 09:41         08/08/18 17:35           4616086022         2-207-DWF-15         Drinking Water         08/03/18 09:45         08/08/18 17:35<	4616086008	1-SL-SRF-9	Drinking Water	08/03/18 08:55	08/08/18 17:35
4616086011         1-102-B-23         Drinking Water         08/03/18 09:04         08/08/18 17:35           4616086012         1-102-B-24         Drinking Water         08/03/18 09:10         08/08/18 17:35           4616086013         1-111-B-25         Drinking Water         08/03/18 09:15         08/08/18 17:35           4616086014         1-10-B-26         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086015         1-108-B-27         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086016         1-108-B-28         Drinking Water         08/03/18 09:25         08/08/18 17:35           4616086017         1-105-B-29         Drinking Water         08/03/18 09:28         08/08/18 17:35           4616086018         1-104-B-30         Drinking Water         08/03/18 09:30         08/08/18 17:35           4616086019         1-107-B-31         Drinking Water         08/03/18 09:32         08/08/18 17:35           4616086020         2-Hall-DWF-17         Drinking Water         08/03/18 09:35         08/08/18 17:35           4616086021         2-Hall-DWF-18         Drinking Water         08/03/18 09:41         08/08/18 17:35           4616086022         2-207-DWF-15         Drinking Water         08/03/18 09:45         08/08/18 17:35<	4616086009	1-K-KS-19	Drinking Water	08/03/18 08:59	08/08/18 17:35
4616086012         1-102-B-24         Drinking Water         08/03/18 09:10         08/08/18 17:35           4616086013         1-111-B-25         Drinking Water         08/03/18 09:15         08/08/18 17:35           4616086014         1-110-B-26         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086015         1-109-B-27         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086016         1-108-B-28         Drinking Water         08/03/18 09:25         08/08/18 17:35           4616086017         1-105-B-29         Drinking Water         08/03/18 09:30         08/08/18 17:35           4616086018         1-104-B-30         Drinking Water         08/03/18 09:30         08/08/18 17:35           4616086020         2-Hall-DWF-17         Drinking Water         08/03/18 09:35         08/08/18 17:35           4616086021         2-Hall-DWF-18         Drinking Water         08/03/18 09:35         08/08/18 17:35           4616086022         2-207-DWF-15         Drinking Water         08/03/18 09:41         08/08/18 17:35           4616086023         2-207-DWF-16         Drinking Water         08/03/18 09:45         08/08/18 17:35           4616086024         2-K-KS-12         Drinking Water         08/03/18 09:45         08/08/18 17:3	4616086010	1-K-KS-20	Drinking Water	08/03/18 08:59	08/08/18 17:35
4616086013         1-111-B-25         Drinking Water         08/03/18 09:15         08/08/18 17:35           4616086014         1-110-B-26         Drinking Water         08/03/18 09:17         08/08/18 17:35           4616086015         1-109-B-27         Drinking Water         08/03/18 09:23         08/08/18 17:35           4616086016         1-108-B-28         Drinking Water         08/03/18 09:25         08/08/18 17:35           4616086017         1-105-B-29         Drinking Water         08/03/18 09:28         08/08/18 17:35           4616086018         1-104-B-30         Drinking Water         08/03/18 09:30         08/08/18 17:35           4616086019         1-107-B-31         Drinking Water         08/03/18 09:32         08/08/18 17:35           4616086020         2-Hall-DWF-17         Drinking Water         08/03/18 09:35         08/08/18 17:35           4616086021         2-Hall-DWF-18         Drinking Water         08/03/18 09:41         08/08/18 17:35           4616086023         2-207-DWF-15         Drinking Water         08/03/18 09:41         08/08/18 17:35           4616086024         2-K-KS-12         Drinking Water         08/03/18 09:45         08/08/18 17:35           4616086025         2-K-KS-13         Drinking Water         08/03/18 09:45         08/08/18 17:35 </td <td>4616086011</td> <td>1-102-B-23</td> <td>Drinking Water</td> <td>08/03/18 09:04</td> <td>08/08/18 17:35</td>	4616086011	1-102-B-23	Drinking Water	08/03/18 09:04	08/08/18 17:35
4616086014       1-110-B-26       Drinking Water       08/03/18 09:17       08/08/18 17:35         4616086015       1-109-B-27       Drinking Water       08/03/18 09:23       08/08/18 17:35         4616086016       1-108-B-28       Drinking Water       08/03/18 09:25       08/08/18 17:35         4616086017       1-105-B-29       Drinking Water       08/03/18 09:30       08/08/18 17:35         4616086018       1-104-B-30       Drinking Water       08/03/18 09:30       08/08/18 17:35         4616086020       2-Hall-DWF-17       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086021       2-Hall-DWF-18       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086022       2-207-DWF-15       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086012	1-102-B-24	Drinking Water	08/03/18 09:10	08/08/18 17:35
4616086015       1-109-B-27       Drinking Water       08/03/18 09:23       08/08/18 17:35         4616086016       1-108-B-28       Drinking Water       08/03/18 09:25       08/08/18 17:35         4616086017       1-105-B-29       Drinking Water       08/03/18 09:28       08/08/18 17:35         4616086018       1-104-B-30       Drinking Water       08/03/18 09:30       08/08/18 17:35         4616086019       1-107-B-31       Drinking Water       08/03/18 09:32       08/08/18 17:35         4616086020       2-Hall-DWF-17       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086021       2-Hall-DWF-18       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086023       2-207-DWF-15       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086013	1-111-B-25	Drinking Water	08/03/18 09:15	08/08/18 17:35
4616086016       1-108-B-28       Drinking Water       08/03/18 09:25       08/08/18 17:35         4616086017       1-105-B-29       Drinking Water       08/03/18 09:30       08/08/18 17:35         4616086018       1-104-B-30       Drinking Water       08/03/18 09:32       08/08/18 17:35         4616086019       1-107-B-31       Drinking Water       08/03/18 09:32       08/08/18 17:35         4616086020       2-Hall-DWF-17       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086021       2-Hall-DWF-18       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086022       2-207-DWF-15       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086023       2-207-DWF-16       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086014	1-110-B-26	Drinking Water	08/03/18 09:17	08/08/18 17:35
4616086017       1-105-B-29       Drinking Water       08/03/18 09:28       08/08/18 17:35         4616086018       1-104-B-30       Drinking Water       08/03/18 09:30       08/08/18 17:35         4616086019       1-107-B-31       Drinking Water       08/03/18 09:32       08/08/18 17:35         4616086020       2-Hall-DWF-17       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086021       2-Hall-DWF-18       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086022       2-207-DWF-15       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086023       2-207-DWF-16       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086015	1-109-B-27	Drinking Water	08/03/18 09:23	08/08/18 17:35
4616086018       1-104-B-30       Drinking Water       08/03/18 09:30       08/08/18 17:35         4616086019       1-107-B-31       Drinking Water       08/03/18 09:32       08/08/18 17:35         4616086020       2-Hall-DWF-17       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086021       2-Hall-DWF-18       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086022       2-207-DWF-15       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086023       2-207-DWF-16       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086016	1-108-B-28	Drinking Water	08/03/18 09:25	08/08/18 17:35
4616086019       1-107-B-31       Drinking Water       08/03/18 09:32       08/08/18 17:35         4616086020       2-Hall-DWF-17       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086021       2-Hall-DWF-18       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086022       2-207-DWF-15       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086023       2-207-DWF-16       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086017	1-105-B-29	Drinking Water	08/03/18 09:28	08/08/18 17:35
4616086020       2-Hall-DWF-17       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086021       2-Hall-DWF-18       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086022       2-207-DWF-15       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086023       2-207-DWF-16       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086018	1-104-B-30	Drinking Water	08/03/18 09:30	08/08/18 17:35
4616086021       2-Hall-DWF-18       Drinking Water       08/03/18 09:35       08/08/18 17:35         4616086022       2-207-DWF-15       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086023       2-207-DWF-16       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086019	1-107-B-31	Drinking Water	08/03/18 09:32	08/08/18 17:35
4616086022       2-207-DWF-15       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086023       2-207-DWF-16       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086020	2-Hall-DWF-17	Drinking Water	08/03/18 09:35	08/08/18 17:35
4616086023       2-207-DWF-16       Drinking Water       08/03/18 09:41       08/08/18 17:35         4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086021	2-Hall-DWF-18	Drinking Water	08/03/18 09:35	08/08/18 17:35
4616086024       2-K-KS-12       Drinking Water       08/03/18 09:45       08/08/18 17:35         4616086025       2-K-KS-13       Drinking Water       08/03/18 09:45       08/08/18 17:35	4616086022	2-207-DWF-15	Drinking Water	08/03/18 09:41	08/08/18 17:35
<b>4616086025 2-K-KS-13</b> Drinking Water 08/03/18 09:45 08/08/18 17:35	4616086023	2-207-DWF-16	Drinking Water	08/03/18 09:41	08/08/18 17:35
	4616086024	2-K-KS-12	Drinking Water	08/03/18 09:45	08/08/18 17:35
<b>4616086026 2-Hall-DWF-11</b> Drinking Water 08/03/18 09:49 08/08/18 17:35	4616086025	2-K-KS-13	Drinking Water	08/03/18 09:45	08/08/18 17:35
	4616086026	2-Hall-DWF-11	Drinking Water	08/03/18 09:49	08/08/18 17:35



# **SAMPLE ANALYTE COUNT**

Project: West Side Academy

Pace Project No.: 4616086

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4616086001	1-Hall-B-1	EPA 200.8	CKD	2
4616086002	1-Hall-B-2	EPA 200.8	CKD	2
4616086003	1-K-SRF-4	EPA 200.8	CKD	2
4616086004	1-Hall-B-5	EPA 200.8	CKD	2
4616086005	1-Hall-B-6	EPA 200.8	CKD	2
4616086006	1-Hall-DWF-7	EPA 200.8	CKD	2
4616086007	1-Hall-DWF-8	EPA 200.8	CKD	2
4616086008	1-SL-SRF-9	EPA 200.8	CKD	2
4616086009	1-K-KS-19	EPA 200.8	CKD	2
4616086010	1-K-KS-20	EPA 200.8	CKD	2
4616086011	1-102-B-23	EPA 200.8	CKD	2
4616086012	1-102-B-24	EPA 200.8	CKD	2
4616086013	1-111-B-25	EPA 200.8	CKD	2
4616086014	1-110-B-26	EPA 200.8	CKD	2
4616086015	1-109-B-27	EPA 200.8	CKD	2
4616086016	1-108-B-28	EPA 200.8	CKD	2
4616086017	1-105-B-29	EPA 200.8	CKD	2
4616086018	1-104-B-30	EPA 200.8	CKD	2
4616086019	1-107-B-31	EPA 200.8	CKD	2
4616086020	2-Hall-DWF-17	EPA 200.8	CKD	2
4616086021	2-Hall-DWF-18	EPA 200.8	CKD	2
4616086022	2-207-DWF-15	EPA 200.8	CKD	2
4616086023	2-207-DWF-16	EPA 200.8	CKD	2
4616086024	2-K-KS-12	EPA 200.8	CKD	2
4616086025	2-K-KS-13	EPA 200.8	CKD	2
4616086026	2-Hall-DWF-11	EPA 200.8	CKD	2



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-Hall-B-1	Lab ID:	4616086001	<b>D86001</b> Collected: 08/03/18 08:38		Received: 08	/08/18 17:35 Ma	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 Lead	910 <1.0	ug/L ug/L	20.0 1.0	1300 15	20 1		08/20/18 16:38 08/20/18 12:56		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-Hall-B-2	Lab ID:	Lab ID: 4616086002		d: 08/03/18	3 08:38	Received: 08	/08/18 17:35 Ma	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	958	ug/L	20.0	1300	20		08/20/18 16:43	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/20/18 13:01	7439-92-1	



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-K-SRF-4	Lab ID:	4616086003	Collecte	d: 08/03/18	8 08:42	Received: 08	/08/18 17:35 Ma	18 17:35 Matrix: Drinking Wate	
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 Lead	132 2.2	ug/L ug/L	5.0 1.0	1300 15	5 1		08/20/18 16:44 08/20/18 13:02		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-Hall-B-5	Lab ID: 4616086004		Collected	ollected: 08/03/18 08:45		Received: 08/	/08/18 17:35 Ma	35 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 Lead	282 13.2	ug/L ug/L	5.0 1.0	1300 15	5 1		08/20/18 16:45 08/20/18 13:03		



Project: West Side Academy

Pace Project No.: 4616086

Date: 08/22/2018 10:25 AM

Sample: 1-Hall-B-6	Lab ID:	4616086005	Collecte	d: 08/03/18	8 08:45	Received: 08	/08/18 17:35 Ma	Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	r Analytical Method: EPA 200.8								
Copper	186	ug/L	5.0	1300	5		08/20/18 16:46	7440-50-8	
Lead	1.8	ug/L	1.0	15	1		08/20/18 13:04	7439-92-1	



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-Hall-DWF-7	Lab ID:	4616086006	Collecte	d: 08/03/18	3 08:51	Received: 08	/08/18 17:35 Ma	atrix: Drinking \	
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 Lead	482 <1.0	ug/L ug/L	10.0 1.0	1300 15	10 1		08/20/18 16:47 08/20/18 13:05		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-Hall-DWF-8	Lab ID:	4616086007	Collecte	d: 08/03/18	08:51	Received: 08	/08/18 17:35 Ma	atrix: 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 Lead	405 <1.0	ug/L ug/L	5.0 1.0	1300 15	5 1		08/20/18 16:51 08/20/18 13:15		



Project: West Side Academy

Pace Project No.: 4616086

Date: 08/22/2018 10:25 AM

Sample: 1-SL-SRF-9	Lab ID:	4616086008	Collecte	d: 08/03/18	3 08:55	Received: 08	/08/18 17:35 Ma	atrix: Drinking \	Vater
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 Lead	419 <1.0	ug/L ug/L	5.0 1.0	1300 15	5 1		08/20/18 16:52 08/20/18 13:16		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-K-KS-19	Lab ID:	4616086009	Collecte	d: 08/03/18	8 08:59	Received: 08	/08/18 17:35 Ma	atrix: 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	384	ug/L	5.0	1300	5		08/20/18 16:53	7440-50-8	
Lead	63.1	ug/L	1.0	15	1		08/20/18 13:17	7439-92-1	



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-K-KS-20	Lab ID:	4616086010	Collecte	d: 08/03/18	8 08:59	Received: 08	/08/18 17:35 Ma	atrix: 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 Lead	345 19.9	ug/L ug/L	5.0 1.0	1300 15	5 1		08/20/18 16:54 08/20/18 13:18		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-102-B-23	Lab ID:	4616086011	Collecte	d: 08/03/18	3 09:04	Received: 08	/08/18 17:35 Ma	atrix: Drinking \	Nater
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 Lead	1230 <1.0	ug/L ug/L	20.0 1.0	1300 15	20 1		08/20/18 16:55 08/20/18 13:19		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-102-B-24	Lab ID:	4616086012	Collecte	d: 08/03/18	3 09:10	Received: 08	/08/18 17:35 Ma	atrix: Drinking \	Vater
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 Lead	543 2.4	ug/L ug/L	10.0 1.0	1300 15	10 1		08/20/18 16:59 08/20/18 13:23		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-111-B-25	Lab ID:	4616086013	Collecte	d: 08/03/18	3 09:15	Received: 08	/08/18 17:35 Ma	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 Lead	1350 3.0	ug/L ug/L	20.0 1.0	1300 15	20 1		08/20/18 17:00 08/20/18 13:24		



Project: West Side Academy

Pace Project No.: 4616086

Date: 08/22/2018 10:25 AM

Sample: 1-110-B-26	Lab ID:	4616086014	Collecte	d: 08/03/18	3 09:17	Received: 08	/08/18 17:35 Ma	atrix: 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 Lead	374 <1.0	ug/L ug/L	5.0 1.0	1300 15	5 1		08/20/18 17:03 08/20/18 13:32		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-109-B-27	Lab ID:	4616086015	Collecte	d: 08/03/18	3 09:23	Received: 08	/08/18 17:35 Ma	atrix: Drinking \	Vater
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 Lead	395 <1.0	ug/L ug/L	5.0 1.0	1300 15	5 1		08/20/18 17:04 08/20/18 13:33		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-108-B-28	Lab ID:	4616086016	Collected	d: 08/03/18	3 09:25	Received: 08	/08/18 17:35 Ma	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 Lead	1130 <1.0	ug/L ug/L	20.0 1.0	1300 15	20 1		08/20/18 17:05 08/20/18 13:34		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-105-B-29	Lab ID:	4616086017	Collecte	d: 08/03/18	3 09:28	Received: 08	/08/18 17:35 Ma	atrix: 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 Lead	583 1.6	ug/L ug/L	10.0 1.0	1300 15	10 1		08/20/18 17:06 08/20/18 13:35		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 1-104-B-30	Lab ID: 4616086018		Collected: 08/03/18 09:30			Received: 08	/08/18 17:35 Ma	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 Lead	701 8.1	ug/L ug/L	10.0 1.0	1300 15	10 1		08/20/18 17:07 08/20/18 13:36		



Project: West Side Academy

Pace Project No.: 4616086

Date: 08/22/2018 10:25 AM

Sample: 1-107-B-31	Lab ID: 4616086019		Collected: 08/03/18 09:32			Received: 08	/08/18 17:35 Ma	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	339	ug/L	5.0	1300	5		08/20/18 17:08	7440-50-8	
Lead	1.1	ug/L	1.0	15	1		08/20/18 13:37	7439-92-1	



Project: West Side Academy

Pace Project No.: 4616086

Date: 08/22/2018 10:25 AM

Sample: 2-Hall-DWF-17	Lab ID:	4616086020	Collecte	d: 08/03/18	3 09:35	Received: 08	/08/18 17:35 Ma	atrix: 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 Lead	284 <1.0	ug/L ug/L	5.0 1.0	1300 15	5 1		08/20/18 17:09 08/20/18 13:38		



Project: West Side Academy

Pace Project No.: 4616086

Sample: 2-Hall-DWF-18	Lab ID:	4616086021	Collecte	d: 08/03/18	3 09:35	Received: 08	/08/18 17:35 M	atrix: 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	390	ug/L	5.0	1300	5		08/20/18 17:10	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/20/18 13:41	7439-92-1	



Project: West Side Academy

Pace Project No.: 4616086

Sample: 2-207-DWF-15	Lab ID:	4616086022	Collecte	d: 08/03/18	3 09:41	Received: 08	/08/18 17:35 Ma	atrix: 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 Lead	759 <1.0	ug/L ug/L	10.0 1.0	1300 15	10 1		08/20/18 17:32 08/20/18 13:47		



Project: West Side Academy

Pace Project No.: 4616086

Date: 08/22/2018 10:25 AM

Sample: 2-207-DWF-16	Lab ID:	4616086023	Collecte	d: 08/03/18	3 09:41	Received: 08	/08/18 17:35 Ma	atrix: 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	2330	ug/L	50.0	1300	50		08/20/18 17:33	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/20/18 13:48	7439-92-1	



Project: West Side Academy

Pace Project No.: 4616086

Sample: 2-K-KS-12	Lab ID:	4616086024	Collecte	d: 08/03/18	3 09:45	Received: 08	/08/18 17:35 Ma	atrix: 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	436	ug/L	5.0	1300	5		08/20/18 17:34	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/20/18 13:49	7439-92-1	



Project: West Side Academy

Pace Project No.: 4616086

Date: 08/22/2018 10:25 AM

Sample: 2-K-KS-13	Lab ID:	4616086025	Collecte	d: 08/03/18	3 09:45	Received: 08	/08/18 17:35 Ma	atrix: 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	425	ug/L	5.0	1300	5		08/20/18 17:35	7440-50-8	
Lead	1.1	ug/L	1.0	15	1		08/20/18 13:51	7439-92-1	



Project: West Side Academy

Pace Project No.: 4616086

Sample: 2-Hall-DWF-11	Lab ID:	4616086026	Collected	d: 08/03/18	3 09:49	Received: 08	/08/18 17:35 Ma	atrix: 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 Lead	761 <1.0	ug/L ug/L	10.0 1.0	1300 15	10 1		08/20/18 17:36 08/20/18 13:52		



#### **QUALITY CONTROL DATA**

Project: West Side Academy

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

Date: 08/22/2018 10:25 AM

Pace Project No.: 4616086

QC Batch: 31183 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep

Associated Lab Samples: 4616086001, 4616086002, 4616086003, 4616086004, 4616086005, 4616086006, 4616086007, 4616086008,

4616086019, 4616086010, 4616086011, 4616086012, 4616086013, 4616086014, 4616086015, 4616086016,

4616086017, 4616086018, 4616086019, 4616086020

METHOD BLANK: 125676 Matrix: Water

Associated Lab Samples: 4616086001, 4616086002, 4616086003, 4616086004, 4616086005, 4616086006, 4616086007, 4616086008,

4616086009, 4616086010, 4616086011, 4616086012, 4616086013, 4616086014, 4616086015, 4616086016,

4616086017, 4616086018, 4616086019, 4616086020

125728

MS

Paramete	r	Units	Blank Result		eporting Limit	Analyz	ed	Qualifiers				
Copper		ug/L		<1.0	1.0	08/20/18	12:52		_			
Lead		ug/L		<1.0	1.0	08/20/18	12:52					
LABORATORY CONTR	OL SAMPLE: 1	25677										
			Spike	LCS	3	LCS	% Red					
Paramete	r	Units	Conc.	Resu	ılt	% Rec	Limits	Qı	ualifiers			
Copper		ug/L	20		21.2	106	85	 5-115		_		
Lead		ug/L	20		20.8	104	85	5-115				
MATRIX SPIKE & MATR	RIX SPIKE DUPLI	CATE: 12567	8		125679							
			MS	MSD								
		4616086001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
. a.aetc.			400	400	1320	1330	103	105	70-130	1	20	
Copper	ug/L	910	400	700	1020	1000	100				20	

Parameter	Units	4616086011 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	1230	400	400	1650	1650	104	105	70-130	0	20	
Lead	ug/L	<1.0	20	20	22.4	22.5	108	108	70-130	0	20	

MSD

125729

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.



#### **QUALITY CONTROL DATA**

Project: West Side Academy

Pace Project No.: 4616086

Date: 08/22/2018 10:25 AM

Copper

Lead

QC Batch: 31184 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep Associated Lab Samples: 4616086021, 4616086022, 4616086023, 4616086024, 4616086025, 4616086026

METHOD BLANK: 125681 Matrix: Water

Associated Lab Samples: 4616086021, 4616086022, 4616086023, 4616086024, 4616086025, 4616086026

Blank Reporting Limit Qualifiers Parameter Units Result Analyzed <1.0 08/20/18 13:39 ug/L 1.0 ug/L <1.0 1.0 08/20/18 13:39

LABORATORY CONTROL SAMPLE: 125682 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Copper 20 21.5 107 85-115 ug/L Lead 20 21.0 105 85-115 ug/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 125683 125684 MSD MS 4616086021 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Copper ug/L 390 100 100 486 489 96 99 70-130 20 Lead ug/L <1.0 20 20 21.8 22.0 107 108 70-130 20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 125686 125687 MS MSD 4616087005 MS MSD MS Spike Spike MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Copper 220 100 100 326 325 107 70-130 0 20 ug/L 106 Lead 20 20 21.9 21.7 106 105 70-130 20 ug/L <1.0 1

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.



#### **QUALIFIERS**

Project: West Side Academy

Pace Project No.: 4616086

#### **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.

Date: 08/22/2018 10:25 AM



# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: West Side Academy

Pace Project No.: 4616086

Date: 08/22/2018 10:25 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4616086001	1-Hall-B-1	EPA 200.8	31183		
4616086002	1-Hall-B-2	EPA 200.8	31183		
4616086003	1-K-SRF-4	EPA 200.8	31183		
4616086004	1-Hall-B-5	EPA 200.8	31183		
4616086005	1-Hall-B-6	EPA 200.8	31183		
4616086006	1-Hall-DWF-7	EPA 200.8	31183		
4616086007	1-Hall-DWF-8	EPA 200.8	31183		
4616086008	1-SL-SRF-9	EPA 200.8	31183		
4616086009	1-K-KS-19	EPA 200.8	31183		
4616086010	1-K-KS-20	EPA 200.8	31183		
4616086011	1-102-B-23	EPA 200.8	31183		
4616086012	1-102-B-24	EPA 200.8	31183		
4616086013	1-111-B-25	EPA 200.8	31183		
4616086014	1-110-B-26	EPA 200.8	31183		
4616086015	1-109-B-27	EPA 200.8	31183		
4616086016	1-108-B-28	EPA 200.8	31183		
4616086017	1-105-B-29	EPA 200.8	31183		
4616086018	1-104-B-30	EPA 200.8	31183		
4616086019	1-107-B-31	EPA 200.8	31183		
4616086020	2-Hall-DWF-17	EPA 200.8	31183		
4616086021	2-Hall-DWF-18	EPA 200.8	31184		
4616086022	2-207-DWF-15	EPA 200.8	31184		
4616086023	2-207-DWF-16	EPA 200.8	31184		
4616086024	2-K-KS-12	EPA 200.8	31184		
4616086025	2-K-KS-13	EPA 200.8	31184		
4616086026	2-Hall-DWF-11	EPA 200.8	31184		

WO#: 4616086

Sei

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

Requ		75	et Information:	ation:				Sect	Section C								L				
Company	ATC Group Services LLC	ď	Robert Smith	E				Attention	tion.	nation:						Г	A.	Page:	1	ŏ	3
Address	46555 Humboldt Drive, Suite 100	Copy To:						Com	Company Name	.00						_					
Novi, N	148377							Address	SSS.	Ď.											
Phone	robert.smith@atcgs.com	Purchase Order #:	20					Pace	Pace Quote:									Regulat	Regulatory Agency	lcy	
Reques	Z48-569-5140 Fax 248-669-5147	Project Name:	Lead &	Lead & Copper Testing	esting			Pace	Pace Project Manager:	fanager.		Will Cole				SASA SA		Chatal	Ctate I Localina		
		rioject #.			West Side A	Academy		Pace	Pace Profile #:		Profile 236 - Line 2	Line 2							M		
		(1					-	F						Requested		Analysis Filtered (Y/N	(N)	П			
	MATRIX Diploma Mater	CODE	=COMP)		COLLECTED	Q	N	N/		Presen	Preservatives		N/A								
	SAMPLE ID Soul'sold	See valid cod	-D BARD=0)	START	4	END							tesT					(N/A)	V	7	30)
ITEM #	One Character per box. Whe Whe (A-Z, 0.9 / , -) Air Air Sample Ids must be unique Tissue	WP AR OT TS	SAMPLE TYPE	DATE	TIME	ATE	A GMTI TIMAS	SAMPLE TEMP A # OF CONTAINER	Unpreserved	нсі ниоз	N <sub>8</sub> SSSO3	Nethanol Tehtr	ead & Copper	Indde				esidual Chlorine	Ö	38	l
-	1-Hail- B- 1	DW G		08/03/18	8:38	-	_	-	×		+	-	) >					В			
7	1-Hall- B-2	DWG		08/03/18	8:38			-	×				< >								
6	1-K-SRF- 4	DW G		08/03/18	8:42				×				< >					_			
4	1-Hall- B- 5	DWG			8:45			,	×				< >								
2	1-Hall- B-6	DW G		08/03/18 8:	8:45			-	×	,			< >					_			
9	1-Hall- DWF- 7	DWG		08/03/18 8:	8:51			-	×				< ×					_			
7	1-Hall- DWF- 8	DWG		08/03/18 8:	8:51			-	×				<u> </u>								
80	1-SL-SRF-9	DW G			8:55				×				< >					_			
6	1-K-KS-19	DW G	G 08/03/18	1 4722	8:59			-	×				< >					_			
10	1-K-KS-20	DWG	G 08/03/18	200	8:59			-	( ×				< >								
11	1-102-B-23	DW G	G 08/03/18	-	9:04			+	×				< >								
12	1-103-B-24	DMG	DW G 08/03/18		9:10			-	×				< >					_			
	ADDITIONAL COMMENTS	RELIN	VQUISHE	RELINQUISHED BY / AFFILIATION	IATION		DATE	T.	TIME		ACCE	ACCEPTED BY / AFFILIATION	AFFILI	NOITN	DATE		TIME	3	SAMPLEC	SAMPLE CONDITIONS	"
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rag	Pag			Ŝ	SAMPLER NAME AND SIGNATURE	AME AND	SIGNAT	URE								_					
je 30 01 4	ge 35 of <i>4</i>				SIGNATU	PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	me of SAMPLER:		B	Wa	3	Jer	Inifer M.	Jennifer M. Fashbaugh DATE Signed:	Ü	07/00/80		remp in C	Y/N)	V/N) coler V/N)	samples itact Y/N)
+U	10							5			-					00/03/10		1	)	S	ul S

CHAIN-OF-CUSTODY / Analytical Request Document

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

Samples SAMPLE CONDITIONS ð Regulatory Agency State / Location Custody Received on Page: Residual Chlorine (Y/N) TEMP in C 1400 TIME Requested Analysis Filtered (Y/N) 8/18/18 DATE Jennifer M. Fashbaugh ACCEPTED BY / AFFILIATION ead & Copper N/A Analyses Test Will Cole Profile 236 - Line 2 Methanol Preservatives Na2S2O3 HOBN Pace Project Manager. HCI Invoice Information: коин Company Name: Pace Profile #: Pace Quote: H2SO4 Section C Attention: Address: Unpreserved TIME # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION 8/8/18 SIGNATURE of SAMPLER: PRINT Name of SAMPLER: DATE END West Side Academy DATE COLLECTED TIME RELINQUISHED BY / AFFILIATION Lead & Copper Testing 9:23 9:25 9:28 9:30 32 9:35 9.41 9:41 9:45 START DATE 08/03/18 Required Project Information: 08/03/18 08/03/18 08/03/18 08/03/18 08/03/18 08/03/18 08/03/18 08/03/18 08/03/18 08/03/18 08/03/18 Report To: Robert Smith (G=GRAB C=COMP) SAMPLE TYPE DW G DWG DWG DWG DW G DW G DW G DWG DWG DWG DW G Jurchase Order #: MATRIX CODE (see valid codes to left) Project Name: Section B Sopy To: CODE DWW WWT SIL OL WP AR AR TS MATRIX
Drinking Water
Waste Waste
Waste Water
Product
SolutSolid
Oil
Wipe
Air
Tissue ovi, MI 48377
imail robert.smith@atcgs.com
Fax 248-669-5147 46555 Humboldt Drive, Suite 100 ADDITIONAL COMMENTS One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique SAMPLE ID ATC Group Services LLC Required Client Information: 2-Hall-DWF- 17 2-Hall-DWF- 18 2-207-DWF- 15 :-207-DWF- 16 Requested Due Date -111-B-25 -110-B-26 -109-B-27 I-108-B-28 1-105-B-29 1-104-B-30 1-107-B-31 2-K-KS-12 Novi, MI 48377 Address: 24 13 14 15 16 18 20 11 19 23 21 22 # MBTI

Page 36 of 40

(N/A) ntact

(N/A)

(N/A)

08/03/18

Cooler pelses CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Intact (N/Y) Samples (V/N) SAMPLE CONDITIONS ð pelses Regulatory Agency Custody State / Location (N/A) Received on Residual Chlorine (Y/N) Page: TEMP in C TIME 1400 Requested Analysis Filtered (Y/N) 08/03/18 2/8/18 DATE Jennifer M. Fashbaugh
DATE Signed: ACCEPTED BY AFFILIATION Lead & Copper N/A Analyses Test Will Cole Profile 236 - Line 2 Methanol Preservatives Na2S203 HOBN Pace Project Manager: Pace Profile #: Profil HCI Invoice Information коин Company Name: Pace Quote: H2SO4 Address: TIME Unpreserved # OF CONTAINERS SAMPLER NAME AND SIGNATURE 818118 SIGNATURE of SAMPLER: SAMPLE TEMP AT COLLECTION DATE TIME END West Side Academy DATE COLLECTED RELINQUISHED BY / AFFILIATION TIME Lead & Copper Testing 9:48 9:45 START DATE 08/03/18 08/03/18 Required Project Information: Report To: Robert Smith SAMPLE TYPE (G=GRAB C=COMP) DW G DW G Purchase Order #: MATRIX CODE (see valid codes to left) Project Name: Section B Copy To: Project #: CODE DW WT WW SL OL WP AR MATRIX
Drinking Water
Waster Water
Waste Water
Product
Soul/Solid
Oil
Wipe
Air
Tissue Fax 248-669-5147 46555 Humboldt Drive, Suite 100 ADDITIONAL COMMENTS One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique ATC Group Services LLC SAMPLE ID mail: robert.smith@atcgs.com 126 w 2/2 Required Client Information: 248-669-5140 2-Hall-DWF-11 Requested Due Date 2-K-KS- 13 Novi, MI 48377 Address: Page 37 of 40 # MBTI 25 26

Pace Analytical

	SAMPLE RECEIVING	/ LOG-IN CHECKLIS	ST
	Client 7 T	Work Order #: 4616	
Page Anglytics	Receipt Record Page/Line #	5	~50
Pace Analytica Recorded by (initials/date)	Cooler Qty Receiv	od	
	Box /	ed ☐ IR Gun (#202)  Thermometer Used ☐ Øigital Thermom	eter (#64)
XX 8-8-18	□ Other	IR Gun (#402)	cter (#54)
Cooler# - Time 749	Cooler # Time	Cooler # Time	Cooler # Time
Custody Seals:	Custody Seals:	Custody Seals:	Custody Seals:
None	□ None	None	None
☐ Present / Intact	☐ Present / Intact	□ Present / Intact	□ Present / Intact
☐ Present / Not Intact	☐ Present / Not Intact	☐ Present / Not Intact	□ Present / Not Intact
Coolant Type:	Coolant Type:	Coolant Type:	Coolant Type:
Loose Ice	☐ Loose Ice	□ Loose Ice	□ Loose Ice
☐ Bagged Ice	☐ Bagged Ice	☐ Bagged Ice	☐ Bagged Ice
Blue Ice	☐ Blue Ice	☐ Blue Ice	☐ Blue Ice
None	None	□ None	□ None
Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Location:	Coolant Location:	Coolant Location:
Temp Blank Present: ☐ Yes ☐ No	Dispersed / Top / Middle / Bottom Temp Blank Present:  Yes No	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom
If Present, Temperature Blank Location is:	If Present, Temperature Blank Location is:	Temp Blank Present: ☐ Yes ☐ No  If Present, Temperature Blank Location is:	Temp Blank Present; ☐ Yes ☐ No  If Present, Temperature Blank Location is:
☐ Representative ☐ Not Representative	☐ Representative ☐ Not Representative	Representative Not Representative	Representative Not Representative
Observed Correction oC Factor oC Actual oC	Observed Correction C Factor °C Actual °C	Observed Correction Actual °C	Observed Correction Actual *C
Temp Blank:	Temp Blank:		Factor C
Sample 1: 1 34/6	Sample 1:	Temp Blank:	Temp Blank:
Sample 2:	Sample 1:	Sample 1:	Sample 1:
Sample 3: 34//	Sample 3:	Sample 2: Sample 3:	Sample 2: Sample 3:
When above 6 °C take a	When above 6 °C take a	When above 6 °C take a	When above 6 °C take a
3 Sample Average °C:	3 Sample Average °C:	3 Sample Average °C:	3 Sample Average °C:
☐ VOC Trip Blank received?	□ VOC Trip Blank received?	□ VOC Trip Blank received?	□ VOC Trip Blank received?
If <u>an</u>	y shaded areas checked, complet	e Sample Receiving Non-Conform	
Paperwork Received		Check Sample Preservation	
Yes No		N/A Yes No	
Chain of Custody record(s)?  Received for Lab Signed/Dat  USDA Soil Documents?	If No, Initiated By		k <b>OR</b> average sample temperature, ≥6° C?
Received for Lab Signed/Date	e/Time?		al preservation required?
USDA Soil Documents?  Sampling / Field Forms?	1		samples collected the same day as receipt?
Sampling / Field Forms?		( ) moreover	Preservation Verification Form?
COC Information		_/	ly preserved correctly?  Ig and fill out Non-Conformance Form?
Pace COC Other		11/ -	rved Terracore kit?
COC ID Numbers: / 91793	1017015 1017014	//	ed vials must be frozen
1.1/4)	, /////////////////////////////////////	Nork Order Not Logged In with Sho	ort Hold / Rush
Check COC for Accuracy		Copies of COC To Lab Areas	
Yes, No			
Analysis Requested?			
Sample ID matches COC?			
Sample ID matches COC? Sample Date and Time match All containers indicated are re-	MINAMONTO THE		
All containers indicated are re-	ceived?		
Sample Condition Summary N/A Yes No			
Broken containers/l	ids?		
Missing or incomple	ete labels?		
☐ ☐ Illegible information	on labels?	Yes No	
Low volume receive		✓ ✓ Were all samples logged i	
	n-Pace containers received?	☐ Were all samples labelled	
☐ ☐ VOC vials have hea ☐ ☐ Extra sample location	ons?	☐ Were samples placed on s	
Containers not listed	lir lir	nitial / Date : 8	/9 / 18 Page 38 of 4

1 1	17/	γ									Work Order	44	6086	ATION		
Receipt Log#	47.	5				Completed	By (initial of the	te)	$\bigcirc$							
COC ID#	10	705	)			7	0		8				р	H Strip		
1	171	10	-					Adjusted b	oy:				Reage	ent or Lot#		
Container Typ	o PD2C	or AG3O		1-4S		000		Date:					M	HC739245		
Preservativ		TORINA TORINA AND AND AND AND AND AND AND AND AND A	H <sub>2</sub> SO <sub>4</sub>		H <sub>2</sub> SO	G2S 4 <2	HNO <sub>3</sub>	N Total	HNO <sub>3</sub>	Dissolved				Other		
pl	H Received	Adjusted	1000	Adjusted		Adjusted		Adjusted	100000000000000000000000000000000000000	Adjusted	Received	Adjusted				
COC Line #1							1	/						eck mark in th		
COC Line #2							3/	,						box if pH is e. If pH is not		
COC Line #3							1						acceptable	e, document th		
COC Line #4													pH values	and Adjusted in the		
COC Line #5							1/						appropriate			
COC Line #6							1/	,					(project ma review all a	anager will adjustments a		
COC Line #7							1	/					work order	release). more than 2x		
COC Line #8							1/							preservation		
COC Line #9							1/						volume (se for default	e table below		
COC Line #10							1						Complete a	and attach a		
COC Line #11							1/							all adjusted		
							1						samples. A Sample Receiving Non-			
COC Line #12							V						Conforman	ce Report mpleted if a		
COC ID #	191	79 =	ó					Adjusted by	r				pH adjustm required.	Default		
	•	/											Container			
							- 1	)ate:					Size (mL)	Preservative		
		r AG3O	BP1	-4S	AG	28	BP1-4N	Date:	BP1-4N [	Dissolved			Size (mL)	Preservative		
Preservative	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub>	Total	HNO <sub>3</sub>	<2	D		Container	Preservative		
		>12	100 100 100 100	<2	0.000	<2	BP1-4N	Total		<2	Received	Adjusted	Container Types 5 / 23	Preservative Volume (mL) NaOH		
Preservative pH	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub>	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23 250 Container	Preservative Volume (mL) NaOH		
Preservative pH COC Line #1	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub>	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4	Preservative Volume (mL) NaOH 1.3 H <sub>2</sub> SO <sub>4</sub>		
Preservative pH COC Line #1 COC Line #2	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> · Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5		
Preservative pH COC Line #1 COC Line #2 COC Line #3	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> · Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4 125 250	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0		
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> · Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23  250  Container Type 4  125  250  500	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0		
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #6	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4 125 250	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0		
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #6 COC Line #7	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23  250  Container Type 4  125  250  500  1000  Container Type 13	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub>		
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #6	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23  250  Container Type 4  125  250  500  1000  Container	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub> 2.5		
Preservative pH 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	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23  250  Container Type 4  125  250  500  1000  Container Type 13  500  Container Types 6 / 15	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub>		
Preservative pH 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 #9	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23  250  Container Type 4  125  250  500  1000  Container Type 13  500  Container Type 3 / 15  125	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub> 2.5		
Preservative pH 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	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23  250  Container Type 4  125  250  500  1000  Container Type 13  500  Container Types 6 / 15	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub> 2.5  HNO <sub>3</sub>		
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #6 COC Line #7 COC Line #8	NaOH	>12	H <sub>2</sub> SO <sub>4</sub>	<2	H <sub>2</sub> SO <sub>4</sub>	<2	BP1-4N HNO <sub>3</sub> Received	Total	HNO <sub>3</sub>	<2	Received	Adjusted	Container Types 5 / 23  250  Container Type 4  125  250  500  1000  Container Type 13  500  Container Type 3 / 15  125	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub> 2.5  HNO <sub>3</sub> 0.7		

glient C	010	<i>_</i>	_	۷, _		Work Order	# 461	1989	
Receipt Log #	41-	3	Completed	By (initials/date)	5/8				
COC ID#	197	794		Adjusted	ру:			Reage	H Strip ent or Lot#
Container Type	e BP3C or AG3O	BP1-4S	AG2S	Date: BP1-4N Total	BP1-4N Dissolved				HC739245
Preservative	(C) 1 10000000000000000000000000000000000	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				Other
pl COC Line #1	H Received Adjuste	d Received Adjusted	Received Adjusted	Received Adjusted	Received Adjusted	Received	Adjusted	Place a sh	eck mark in the
				1				Received b	
COC Line #2				12					. If pH is not , document the
COC Line #3									nd Adjusted
COC Line #4								pH values appropriate	
COC Line #5								(project ma	
COC Line #6								review all a work order	djustments a
COC Line #7									more than 2x
COC Line #8									preservation
COC Line #9								for default	e table below volumes).
COC Line #10									ind attach a all adjusted
COC Line #11								samples. A	
COC Line #12								Receiving N Conforman	
COC ID #								required.	
Adjusted by:									ASSESSMENT FACTOR
					/:			Container	Default Preservative
Container Type	BP3C or AG3O	BP1-4S	AG2S	Date:				Container Size (mL)	
Container Type Preservative	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	AG2S H <sub>2</sub> SO <sub>4</sub> < <b>2</b>	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2				Preservative Volume (mL)
Preservative pH	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date: BP1-4N Total	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Size (mL)	Preservative
Preservative pH COC Line #1	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Size (mL)  Container Types 5 / 23  250	Preservative Volume (mL)
Preservative pH COC Line #1 COC Line #2	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Size (mL)  Container Types 5 / 23	Preservative Volume (mL) NaOH
Preservative pH COC Line #1 COC Line #2 COC Line #3	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23 250 Container	Preservative Volume (mL) NaOH
Preservative pH COC Line #1 COC Line #2	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4	Preservative Volume (mL) NaOH 1.3 H <sub>2</sub> SO <sub>4</sub>
Preservative pH COC Line #1 COC Line #2 COC Line #3	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4 125	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4 125 250	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #6	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23  250  Container Type 4  125  250  500  1000	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #6 COC Line #7	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub>
Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #6 COC Line #7 COC Line #8	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub> 2.5  HNO <sub>3</sub>
Preservative pH 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	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23  250  Container Type 4  125  250  500  1000  Container Type 13  500  Container Type 3	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub> 2.5  HNO <sub>3</sub> 0.7
Preservative pH 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 #9	NaOH >12	H <sub>2</sub> SO <sub>4</sub> <2	H <sub>2</sub> SO <sub>4</sub> <2	Date:BP1-4N Total HNO <sub>3</sub> <2	BP1-4N Dissolved HNO <sub>3</sub> <2	Received	Adjusted	Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container Type 6 / 15 125	Preservative Volume (mL)  NaOH  1.3  H <sub>2</sub> SO <sub>4</sub> 0.5  1.0  2.0  4.0  H <sub>2</sub> SO <sub>4</sub> 2.5  HNO <sub>3</sub>