



ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

46555 Humboldt Drive
Novi, Michigan 48377
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May 18, 2018

Mathew Sam
Detroit Public Schools
1601 Farnsworth
Detroit, Michigan 48202

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

SUBJECT: Drinking Water Screening Report-DRAFT
Garvey, Marcus Academy
2301 Van Dyke Street
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 six (6) of the samples analyzed were above the EPA recommended limits of 15 micrograms per liter (ug/L) for lead. None 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 13, 2018)

Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-100W-B-1	located on the 1st floor hallway on the left of main entrance	Left Bubbler	3.4 ug/L	90.7 ug/L
1-100W-B-2	located on the 1st floor hallway on the left of main entrance	Right Bubbler	<1.0 ug/L	370 ug/L
1-Ser(100)-SerF-3	Located on the 1st floor in 100 wing across room 112	Hand wash faucet	1.0 ug/L	177 ug/L
1-401A-SF-4	located on the 1st floor in main office on the right	kitchen faucet	15.8 ug/L	99.5 ug/L
1-401B-SF-5	located on the 1st floor in main office on the right	kitchen faucet	2.2 ug/L	176 ug/L
1-MH(400)-B(7)-6	located on the 1st floor between room 405 & 408	Bubbler	2.9 ug/L	202 ug/L
1-MH(400)-B(8)-7	located on the 1st floor between room 405 & 408	Bubbler	2.6 ug/L	279 ug/L
1-405-KS-8	located on the 1st floor in parent room	kitchen faucet	<1.0 ug/L	79.6 ug/L
1-407-SRF-9	located on the 1st floor in support stuff	Staff faucet	1.3 ug/L	69.5 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-408-SRF-10	located on the 1st floor across room 407	Staff faucet	23.8 ug/L	121 ug/L
1-400C-SRF-11	located on the 1st floor in library	Staff faucet	4.7 ug/L	336 ug/L
1-BH(400)-B(5)-12	located on the 1st floor back hallway(400) next to 400C	Bubbler	2.4 ug/L	206 ug/L
1-BH(400)-B(6)-13	located on the 1st floor back hallway(400) next to 400C	Bubbler	5.8 ug/L	203 ug/L
1-MK-KS-14	Located on the 1st floor in main kitchen in the left	Hand wash faucet	10.2 ug/L	185 ug/L
1-MK-KS-15	Located on the 1st floor in main kitchen in the middle	kitchen faucet	3.7 ug/L	142 ug/L
1-MK-KS-16	Located on the 1st floor in main kitchen at dish washing station (left)	kitchen faucet	2.1 ug/L	113 ug/L
1-MK-KS-17	Located on the 1st floor in main kitchen at dish washing station (right)	kitchen faucet	5.6 ug/L	121 ug/L
1-MK-KS-18	Located on the 1st floor in main kitchen next to #17	Hand wash faucet	24.6 ug/L	215 ug/L
1-MK-KS-19	Located on the 1st floor in main kitchen on the right	kitchen faucet	1.7 ug/L	111 ug/L
1-Ser(200)-SerF-21	located on the 1st floor in serving 200 wing	kitchen faucet	2.3 ug/L	151 ug/L
1-HW(200)-B(4)-27	Located on the 1st floor across from rooms 215 & 216 in Maya Angelou Lane	Bubbler	1.3 ug/L	302 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-SP-B(21)-28	Located on the 1st floor in swimming pool 500 wing	Bubbler	21.8 ug/L	507 ug/L
1-HW(500)-B(9)-29	Located on the 1st floor across from room 506	Bubbler	8.2 ug/L	233 ug/L
1-HW(500)-B(12)-32	Located on the 1st floor across from room gym & dance 501B in Yaa Asanttewaa Lane	Bubbler	5.6 ug/L	256 ug/L
1-GLR-B(13)-33	located on the 1st floor in girls locker room in Yaa Asanttewaa Lane	Bubbler	98.2 ug/L	654 ug/L
1-Gym-DWF-(17)-37	Located on the 1st floor in gym on the right	Drinking water fountain	<1.0 ug/L	214 ug/L
1-Gym-DWF-(18)-38	Located on the 1st floor in gym on the right	Drinking water fountain	<1.0 ug/L	239 ug/L
1-Gym-DWF-(19)-39	Located on the 1st floor in gym on the left	Drinking water fountain	1.2 ug/L	128 ug/L
1-Gym-DWF-(20)-40	Located on the 1st floor in gym on the left	Drinking water fountain	1.1 ug/L	162 ug/L
1-HAR(wing)-B(25)-41	Located on the 1st floor in Harambee wing between restrooms	Bubbler	<1.0 ug/L	313 ug/L
1-HAR(wing)-B(26)-42	Located on the 1st floor in Harambee wing between restrooms	Bubbler	2.1 ug/L	581 ug/L
1-Ser-SRF-43	Located on the 1st floor in Harambee wing	Staff faucet	<1.0 ug/L	546 ug/L
2-HW-B(23)-44	located on the 2nd floor hallway	Bubbler	26.5 ug/L	182 ug/L
2-HW-B(24)-45	located on the 2nd floor hallway	Bubbler	11.4 ug/L	201 ug/L

Key: NA - Not Analyzed

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

Analysis of samples in the main office, 1st floor @ 407, main kitchen, 500 wing swimming pool, Girls locker room, and 2nd floor hallway indicate that lead 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.

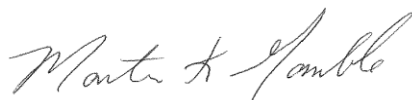
LIMITATIONS

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.

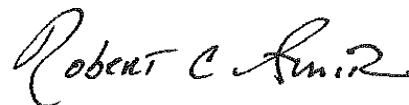
Future drinking water evaluation and sampling in accordance with the recommendations may be predicated on applicable guidelines by the MDEQ or EPA and will be determined prior to developing a sampling plan for the school.

Sincerely,

ATC Group Services, LLC



Martin K. Gamble
Senior Project Manager



Robert C. Smith
Building Science Department Manager



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Attachments

Attachment A: Fixture Inventory Locations Map/Form

Attachment B: Fixture Inventory Photo Log

Attachment C: Laboratory Analytical Report