

May 26, 2016

File: 0890.03600.2

Ms. Kyle Smitley
Detroit Achievement Academy
7000 West Outer Drive
Detroit, Michigan 48235

Re: Environmental Assessment – Drinking Water Quality Report
Detroit Achievement Academy
7000 West Outer Drive, Detroit, Michigan 48235

Dear Ms. Smitley:

Rose & Westra, Inc. (R&W) is pleased to present this drinking water quality report with results from the recent sampling and testing for the Detroit Achievement Academy located at 7000 West Outer Drive, Detroit, Michigan (the Building). This work was requested due a concern about possible lead contaminates being present in the drinking water supplied to the Building. The water piping system to the Building and the water within the system are maintained by City of Detroit Water Department.

In summary, none of the tests conducted identified any contaminants exceeding the maximum contaminant levels (MCLs) allowed by the U. S. Environmental Protection Agency (U.S. EPA) for residential drinking water consumption.

Background

The Building is a single-story structure constructed in several phases with the original Building constructed in 1949 with additions completed in 1955 and 1984. Renovations were completed in 2015 using new building materials. The City of Detroit Water Department maintains the water distribution system and provides the water within the piping system to the Building.

Drinking Water Sampling

On May 22, 2016, R&W staff collected water samples from two water fixtures in the Building. The fixtures sampled consist of a drinking water fountain station (DFS) located in the main hallway near the student restrooms [DFS-160], and sink tap in the Art Classroom (Room 108) [CS-108]. The locations have been illustrated on Figure 1 (Attachment 1). The sampling method used for the drinking water sample collection is known as first draw sampling, with a second sample collected from each location following a flush of the fixture. The first draw method required R&W staff to access the sampling location and flush the fixture to be sampled for a 30-minute period. Flushing the sampling locations was completed at 2:35 pm on May 22, 2016. Once the 30-minute flushing period was completed,

R&W allowed each sample location to rest for a minimum of 6 hours. Each sample location was taped off to prevent use. The first draw water sample collection began at 8:51 pm on May 22, 2016; thereby allowing for more than a 6-hour rest period. Once the first draw sample was collected from the sample locations, the fixtures remained on for a 5-minute flush before the flushed sample was collected.

The first draw sample from each sample location has been identified in the sample name. The first draw samples are identified as DFS-160-FD, and CS-108-FD. These water sample locations have been illustrated on Figure 1, Attachment 1.

The flushed sample from each sample location has also been identified in the sample name. The flushed samples are identified as DFS-160-FL, and CS-108-FL. These water sample locations have also been illustrated on Figure 1, Attachment 1.

Analytical Testing

Water samples collected by R&W on May 22, 2016 were placed in clean 1,000-ml sample containers (supplied by the lab), labeled, cooled, and stored for transportation. The samples were handled and transported to Prein & Newhof Environmental Laboratory, Inc. (Prein & Newhof Laboratory; Grand Rapids, Michigan) under chain-of-custody records using U.S. EPA and Michigan Department of Environmental Quality (MDEQ) recommended methods. The water samples were tested for several heavy metals (copper, iron, and lead). A copy of the laboratory report has been included in Attachment 2. The Prein & Newhof Laboratory has MDEQ Drinking Water Certification for testing water samples.

Evaluation of Testing Results

All of the lead results were reported as below the method detection limit (MDL) of <0.003 mg/L. These reported results are also below the MCL of 0.015 mg/L.

Trace copper levels were reported in all water samples collected. The reported copper concentrations ranged from 0.052 mg/l to 0.279 mg/L; however, all reported concentrations are well below the MCL of 1.300 mg/L.

Ms. Kyle Smitley
May 26, 2016
Page 3

Conclusions

Based on the water sampling and chemical analyses conducted, none of the tests conducted identified any contaminants that exceeded the MCLs allowed by the U. S. EPA for residential drinking water consumption.

If you have any questions regarding the information or data presented in this letter, please feel free to contact our staff.

Sincerely,

ROSE & WESTRA, INC.

A handwritten signature in blue ink, appearing to read "William J. Bosze", with a long horizontal flourish extending to the right.

William J. Bosze, P.E.

wjb/jac

Attachments:

Attachment 1: Figure 1 – First Floor Plan – Sample Locations – May 22, 2016

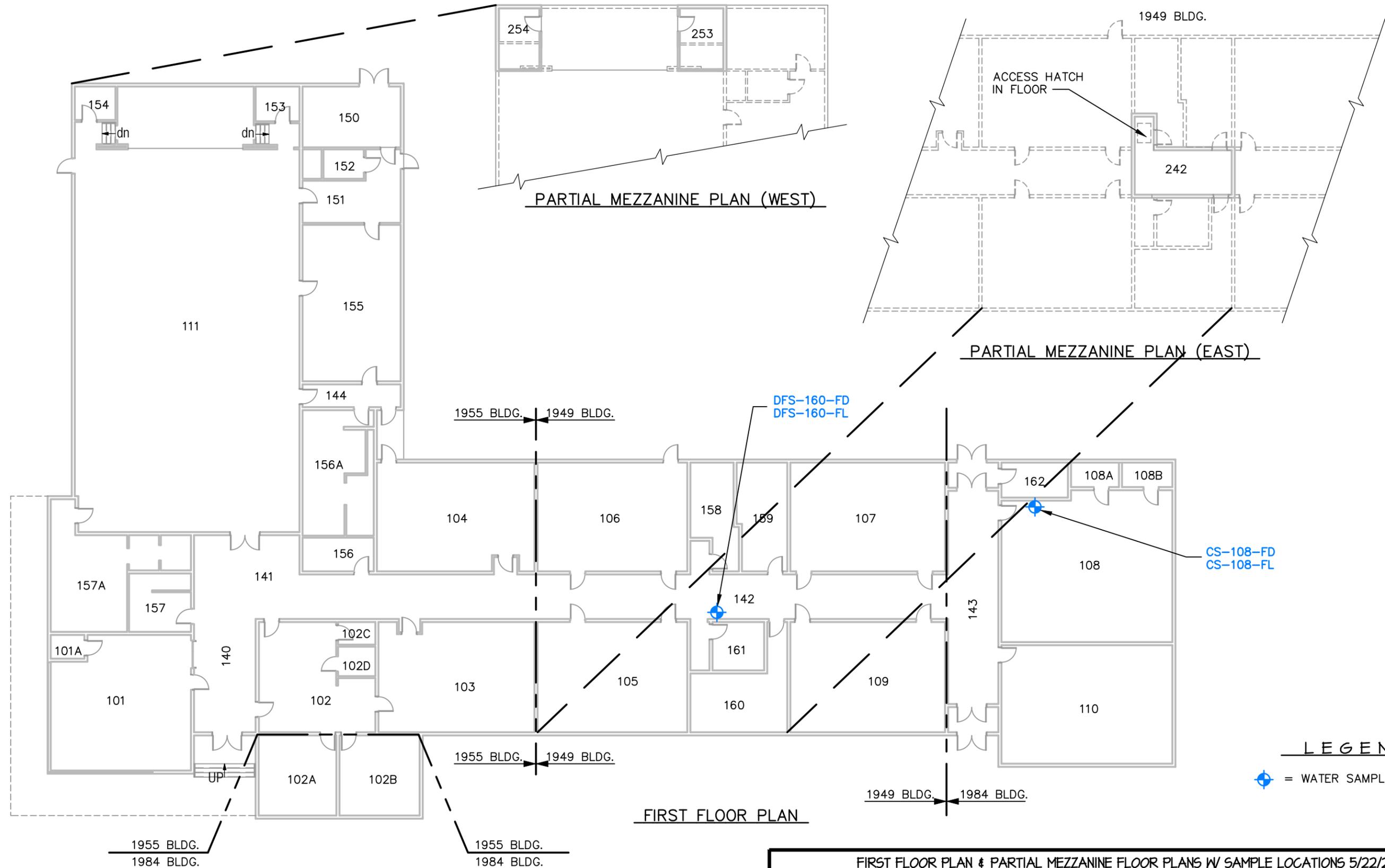
Attachment 2: Prein & Newhof Laboratory Report

Sent via Email Only

ATTACHMENT 1

FIGURE 1

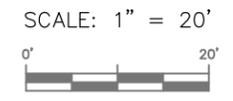
DRINKING WATER SAMPLE LOCATIONS – MAY 22, 2016



FIRST FLOOR PLAN

LEGEND

⊕ = WATER SAMPLE LOCATION



FIRST FLOOR PLAN & PARTIAL MEZZANINE FLOOR PLANS W/ SAMPLE LOCATIONS 5/22/2016			
<p>NORTH ORIENTATION</p>	<p>ROSE & WESTRA, INC. ENVIRONMENTAL CONSULTANTS Grand Rapids, Michigan</p>	<p>DETROIT ACHIEVEMENT ACADEMY 1000 W. OUTER DRIVE, DETROIT, MICHIGAN DRINKING WATER TESTING</p>	
		<p>CREATED BY: KJB APPROVED BY: WJB DATE: 5/25/16 FILE NAME: 036002_DWT</p>	<p>PROJECT NO. 0840.03600.2</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">1</p> <p>FIGURE NO.</p>

ATTACHMENT 2
PREIN & NEWHOF LABORATORY REPORT

Customer Name: Rose & Westra, Inc.
4328 3 Mile Rd NW
Grand Rapids, MI 49544

Contact Name: Rose & Westra, Inc.
4328 3 Mile Rd NW
Grand Rapids, MI 49544

Project: 0890.03600.2

Project No: 2160001

Lab Order: 1605695

Matrix: DRINKING WATER
Sampled By: W. Bosze

Lab ID: 1605695-001A
Client Sample ID: DFS-160-FD

Collection Date: 5/22/2016 8:47 pm
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.189	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/25/2016	SM3113B

Lab ID: 1605695-002A
Client Sample ID: DFS-160-FL

Collection Date: 5/22/2016 8:52 pm
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.052	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/25/2016	SM3113B

Lab ID: 1605695-003A
Client Sample ID: CS-108-FD

Collection Date: 5/22/2016 8:51 pm
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.279	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/25/2016	SM3113B

Lab ID: 1605695-004A
Client Sample ID: CS-108-FL

Collection Date: 5/22/2016 8:56 pm
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.123	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/25/2016	SM3113B

