

October 18, 2021

Beatriz M. Figueroa
Director, Real Estate and Facilities
Uncommon Schools

For distribution

RE: **Lead in Drinking Water Sampling**
North Star Academy – 18 Washington Street
18 Washington Street
Newark, NJ 07102
EL Project # 21-0021

To Whom it May Concern:

North Star Academy Schools are committed to protecting student, teacher, and staff health. To protect the North Star community and be in compliance with the Department of Education regulations, North Star Academy retained Environmental Logic, LLC (EL) to test the school's drinking water for lead.

Results of our Testing

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, a plumbing profile for each of the buildings within the North Star Academy system was prepared. Through this effort, we identified and tested all drinking water and food preparation outlets. The US Environmental Protection Agency has established a lead in drinking water action level of 15 µg/l [ppb]. On July 15, 2021, EL collected drinking water samples throughout the aforementioned school.

No lead concentrations exceeding 15 µg/l [ppb] were identified in drinking water outlets or food preparation sinks.

Additionally, EL collected samples from water sources that are not designed for drinking following prior lead in drinking water monitoring events.

The table below identifies water outlets that tested above the 15 µg/l for lead. All of these faucets are designed for handwashing/building systems purposes and, while the identified concentrations do not *require* remedial action, EL recommends that "DO NOT DRINK – SAFE FOR HANDWASHING ONLY" signage be added to these locations as a precautionary measure.



Sample Location	Sample ID	Purpose	First Draw Result in µg/l (ppb)	Recommended Action
Lower Basement Men's Bathroom	18WASH-003-S002	Handwashing	19.5	Add handwashing only signage
Lower Basement Women's Bathroom	18WASH-004-S004	Handwashing	248	Add handwashing only signage
1 st Floor Girls Bathroom	18WASH-107-S014	Handwashing	32.8	Add handwashing only signage
1 st Floor Girls Bathroom	18WASH-107-S015	Handwashing	52.3	Add handwashing only signage
1 st Floor Girls Bathroom	18WASH-107-S016	Handwashing	18.8	Add handwashing only signage

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At very high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain fairly high levels of lead.

Lead in Drinking Water

Lead in drinking water, although rarely the sole cause of lead poisoning can significantly increase a person's total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.

For More Information

A copy of the test results is available at the Downtown Middle School central office for inspection by the public, including students, teachers, other school personnel, and parents. The results are also available on the North Star Academy website at <https://northstar.uncommonschoools.org/lead-results/>. For more information about water quality in



the North Star Academy schools, contact Beatriz Figueroa, Director, Real Estate and Facilities at Beatriz.Figueroa@uncommonschools.org.

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

If you are concerned about lead exposure at this facility or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,



Michael B. Adams
Senior Project Manager

Enclosures: Full Analytical Data Table

SGS Dayton, NJ						
Job Number:	JD28449					
Account:	Environmental Logic LLC.					
Project:	Uncommon Schools - Newark, NJ					
Project Number:	21-0021					
Address:	18 Washington Place					
						Legend:
						Exceed
Client Sample ID:		NJ Drinking Water Standards (NJAC 7:10 9/18)	18WASH-003-S001	18WASH-003-S002	18WASH-004-S003	18WASH-004-S004
Lab Sample ID:			JD28449-1	JD28449-2	JD28449-3	JD28449-4
Date Sampled:			7/15/2021	7/15/2021	7/15/2021	7/15/2021
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis						
Lead	ug/l	15	8.97	19.5	5.93	248
Client Sample ID:		NJ Drinking Water Standards (NJAC 7:10 9/18)	18WASH-07-S005	18WASH-116-S006	18WASH-114-S007	18WASH-114-S008
Lab Sample ID:			JD28449-5	JD28449-6	JD28449-7	JD28449-8
Date Sampled:			7/15/2021	7/15/2021	7/15/2021	7/15/2021
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis						
Lead	ug/l	15	6.26	2	3.02	1.14
Client Sample ID:		NJ Drinking Water Standards (NJAC 7:10 9/18)	18WASH-113-S009	18WASH-111-S010	18WASH-106-S011	18WASH-106-S012
Lab Sample ID:			JD28449-9	JD28449-10	JD28449-11	JD28449-12
Date Sampled:			7/15/2021	7/15/2021	7/15/2021	7/15/2021
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis						
Lead	ug/l	15	1.25	1.77	1.91	5.16
Client Sample ID:		NJ Drinking Water Standards (NJAC 7:10 9/18)	18WASH-106-S013	18WASH-107-S014	18WASH-107-S015	18WASH-107-S016
Lab Sample ID:			JD28449-13	JD28449-14	JD28449-15	JD28449-16
Date Sampled:			7/15/2021	7/15/2021	7/15/2021	7/15/2021
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis						
Lead	ug/l	15	4.29	32.8	52.3	18.8
Client Sample ID:		NJ Drinking Water Standards (NJAC 7:10 9/18)	18WASH-003-WF003	18WASH-110-S027	18WASH-110-CWL001	18WASH-208-WF001
Lab Sample ID:			JD28449-17	JD28449-18	JD28449-19	JD28449-20
Date Sampled:			7/15/2021	7/15/2021	7/15/2021	7/15/2021
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis						
Lead	ug/l	15	<0.50	1.51	<0.50	<0.50

Client Sample ID:		NJ Drinking Water Standards (NJAC 7:10 9/18)	18WASH-208-WF002	18WASH-317-S018	18WASH-316-S019	18WASH-315-S020
Lab Sample ID:			JD28449-21	JD28449-22	JD28449-23	JD28449-24
Date Sampled:			7/15/2021	7/15/2021	7/15/2021	7/15/2021
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis						
Lead	ug/l	15	<0.50	2.56	2.27	6.23
Client Sample ID:		NJ Drinking Water Standards (NJAC 7:10 9/18)	18WASH-413-S022	18WASH-412-S023	18WASH-411-S024	18WASH-410-S025
Lab Sample ID:			JD28449-25	JD28449-26	JD28449-27	JD28449-28
Date Sampled:			7/15/2021	7/15/2021	7/15/2021	7/15/2021
Matrix:			Drinking Water	Drinking Water	Drinking Water	Drinking Water
Metals Analysis						
Lead	ug/l	15	5	1.68	12.1	1.08
Client Sample ID:		NJ Drinking Water Standards (NJAC 7:10 9/18)	18WASH-409-S026	18WASH-314-S021	18WASH-314-	
Lab Sample ID:			JD28449-29	JD28449-30	JD28449-31	
Date Sampled:			7/15/2021	7/15/2021	7/15/2021	
Matrix:			Drinking Water	Drinking Water	Drinking Water	
Metals Analysis						
Lead	ug/l	15	0.885	0.842	<0.50	
Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. SGS assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.						
5 results exceeded regulatory criteria.						