

Lead/Copper Water Sampling Report

For

University Prep Academy

July 11th & August 15th, 2024



University Prep Academy

Lead/Copper Water Sampling Report

Background:

On July 1st, 2024, a representative of University Prep Academy contacted Nova Environmental, Inc. and requested that lead water samples be collected within buildings under the jurisdiction of the University Prep Academy. Upon discussion, it was determined to conduct testing for copper also. Since this water testing is for screening purposes, it was determined that three samples be collected within each building. The location of the testing was from interior taps from which water is typically drawn for consumption. This would include, but is not limited to the Kitchen within each building. The specific taps to be sampled were determined by the University Prep Academy.

Sampling Methodology:

On Thursday, July 11th, 2024, an environmental consultant from Nova Environmental, Inc. conducted the water sample collection within the applicable buildings. The water samples were collected “first draw” which means that the tap was not flushed a minimum of 8 hours prior to sample collection. This first draw method is stipulated within the Environmental Protection Agency and Michigan Department of Environment, Great Lakes and Energy (EGLE) sampling guidelines for lead and copper.

The water samples were collected in the early morning in order to ensure that the faucet has sat idle for a minimum of eight hours prior to sample collection.

Sample Analysis:

Subsequent to the collection, the sample bottles were hand delivered to Brighton Analytical, L.L.C., Brighton, Michigan. The type of analysis performed on the water samples was Inductively Coupled Plasma – Mass Spectrometry (ICP – MS).

Sample Results:

The action level established by the Environmental Protection Agency (EPA) for lead in drinking water is 15 micrograms per liter ($\mu\text{g/L}$) while for copper is 1,300 $\mu\text{g/L}$.

It should be noted that EGLE is recommending a maximum level of 5 $\mu\text{g/L}$ for kindergarten through 12th grade schools.

July 11th, 2024

On July 11th, 2024, Nova Environmental, Inc. collected a total of 39 water samples from 13 buildings under the jurisdiction of University Prep Academy. The results of all samples collected and analyzed within the University Prep Academy buildings were below the EPA's action levels for both lead and copper with the exception of the prep sink in the Kitchen at the High School Building A, (Red Building). This faucet had elevated lead at the level of 220 µg/L and an elevated copper at the level of 12,000 µg/L.

University Prep Academy officials were notified of the above noted elevated lead level at the High School Building A, (Red Building). University Prep Academy officials indicated that they would immediately render the prep sink as inoperable until the fixture has been replaced and the tap resampled and tested below the EPA's Action Level for lead and copper concentrations.

August 15th, 2024

On Thursday, August 15th, 2024, subsequent to the faucet replacement, a representative of Nova Environmental, Inc. resampled the prep sink in the Kitchen at the High School Building A, (Red Building). The result for lead was "ND" (None Detected) and the result for copper was 90 µg/L, both well below the EPA's Action Levels for lead and copper.

Limitations:

The intent of this sampling was to conduct a simple, cursory screening for lead/copper in drinking water within University Prep Academy buildings. Therefore, this report was not intended to or should not be construed to provide any type of regulatory compliance. Furthermore, the sampling from three taps within a building does not imply a thorough or even representative indication of lead/copper in the drinking water, but is intended to simply provide a snapshot of lead/copper levels at the specific locations tested. In order to clarify, Nova Environmental, Inc. provides the following disclaimers:

- The determination of what taps to test were discussed with building staff and were based on determinations made by representatives of the University Prep Academy and those most likely to be used for consumption, which usually included one sample within the Kitchen;
- The intent of this sampling was not to provide any means or implication of regulatory compliance;
- The only way to ensure an accurate indication of potential lead/copper in water presence within a given building is to test each tap on a periodic basis.

Laboratory Statement of Qualifications:

Brighton Analytical, L.L.C. is a fully certified laboratory for the analysis of lead and copper in the State of Michigan.

University Prep Academy High School Building A - Red Building

Sample ID	Location	Lead	Copper
001	Prep Sink, Kitchen	ND	90 ug/L

ND = None Detected

Federal Action Level for Drinking Water: Lead 15 ug/L
Copper 1300 ug/L
ug/L = microgram/Liter (ppb)



Brighton Analytical LLC
 2105 Pless Drive
 Brighton, Michigan 48114
 Phone: (810)229-7575 (810)229-8650
 e-mail:labs@brightonanalytical.com
 EGLE Certified #9404
 NELAC Accredited #176507

Sample Date/Time: 08/15/2024 06:45
 Submit Date/Time: 08/15/2024 16:30
 Report Date: 08/22/2024

Nova Environmental
 5300 Plymouth Rd.
 Ann Arbor, MI 48105


BA Project # **102212** Project Name: **University Prep Schools**
 BA Sample ID **CW02360** Project Number: **CI0794/*114**
 Sample ID: **001 UPrep H.S. Red Bldg.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date
Drinking Water Metal Analysis								
Total Copper (Drinking Water)	90	ug/L	20	1300	EPA 200.8 rev5.4	11:19	LT	08/21/2024
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	11:19	LT	08/21/2024

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by 
 Date 8/22/2024

Brighton Analytical, L.L.C.
email: bai-brighton@sbcglobal.net
2105 Pless Drive
Brighton, MI 48114
Phone: 810-229-7575
FAX: 810-229-8650

BA PROJECT #: **102212**
ABBREVIATIONS FOR MATRIX
S = Solid
L = Liquid
DW = Drinking H₂O
O = Oil
P = Wipes
A = Air (Tetlar Bag)
F = Filter
T = Tube M = Misc.

PROJECT NAME: **University Prep Schools**
PROJECT #: **CI0794/*114**
PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)

Brighton ID #	Sample Description	Date	Time	Container/Quantity									
				VOA'S (PRES) Y N NA	HDPE UNPRESERVED	HDPE HNO ₃	HDPE H ₂ SO ₄	HDPE NaOH	AMBER Preserved?	GLASS, NO PRESERVATIVE	STERILIZED BACTERIA	MEQ/L Preserved Y N	
1) ool	U Prep H.S. Red Bldg.	8/15/04	6:45am			X							
2)						X							
3)						X							
4)						X							
5)						X							
6)						X							
7)						X							
8)						X							
9)						X							
10)						X							

Sample Collected By: **Kary Amin**

REQUESTED TURNAROUND: (circle one)
Rush: 1-3 business days (verify with lab & specify date needed)
1 Day = 2.5X Cost - 2 Day = 2X Cost - 3 Day = 1.5X Cost
Standard: 5 business days

Analysis Requested/Method: **LEAD/COPPER**

BILLING ADDRESS (IF REQUIRED):
Nova Environmental, Inc
5300 Plymouth Rd.
Ann Arbor, MI 48105

Drinking H₂O: FAX TO LCHD yes no
Chlorinated Water Supply? AMT.: yes no

MCL failure: yes no
Client notified (date/time/initials):

Special Instructions:

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
1	<i>April Bennett</i>	<i>William</i>	<i>8/15/04</i>	<i>4:30p</i>	3				
2					4				



METHODS REGULATED BY NELAC AND OR STATE OF MICHIGAN

EPA 120.1-1982	EPA 615-1993
EPA 150.1-1982	EPA 624-1984
EPA 160.2-1979	EPA 624.1-2016
EPA 160.3-1979	EPA 625-1984
EPA 1631E-2002	EPA 625.1-2016
EPA 200.7-1994	SM 2540C-1997
EPA 200.8 REV 5.4-1994	SM 2540D-1997
EPA 245.1-1994	SM 4500 H+B-1996
EPA 245.2-1974	SM 4500 PE-1997
EPA 300.0R2.1-1993	SM 5210B-1997
EPA 310.1-1978	SM 5310B-1996
EPA 335.1-1974	SM 9223B-1997
EPA 335.4-1993	SW846 6010B-1996
EPA 350.1 REV.2-1993	SW846 6020A-2007
EPA 351.2 REV.2-1993	SW846 7471-1994
EPA 365.2-1971	SW846 8081B-2007
EPA 405.1-1974	SW846 8082A-2000
EPA 410.4 REV.2-1993	SW846 8151A-1996
EPA 415.1-1974	SW846 8260C-2006
EPA 420.1-1978	SW846 8270D-2007
EPA 524.4-2013	SW846 9040B-1994
EPA 608.3-2016	



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY
CONTROL

ICP-MS

METHOD 200.8/6020

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 8/21/2024 Standard ID: 081924 H2O Batch: 08/19/2024 B1
 Matrix Spike Lab ID: CW02369 Matrix: Total Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/L)	Matrix Spike Dup (ug/L)	RPD (%)	Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/L)	Method Blk (ug/L)	LCS-Method STD (%)	Ind. Std. (%)
Copper	1096	1303	17.3	1000	97.7	118.4	119	<20	99.9	97.7
Lead	994	1116	11.6	1000	99.4	111.6	0	<1	94.6	91.8

* Matrix spike precision range +/- 20% RPD

** Matrix spike accuracy range +/- 20% recovery

*** LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: _____