Lead/Copper Water Sampling Report

For

Berkley School District

April 2021

Berkley School District

Lead/Copper Water Sampling Report

Background:

In March of 2021, Jon Barth, Custodial & Operations Facilitator for Berkley School District contacted Nova Environmental, Inc. and requested that lead and copper water samples be collected within nine district buildings. Since this water testing is for screening purposes, it was determined that 6 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.

Sampling Methodology:

On March 13, 2021, environmental consultants from Nova Environmental, Inc. conducted the water sample collection throughout the District. The water samples were collected "first draw" which means that the tap was not flushed prior to sample collection. This first draw method is stipulated within the Environmental Protection Agency and Michigan Department of Environmental Quality (MDEQ) sampling guidelines for lead and copper.

The water samples were collected on the weekend and/or early morning in order to ensure that the faucet has sat idle for a minimum of six hours prior to sample collection.

Subsequent to the collection, the sample bottles were hand delivered to the Brighton Analytical, LLC. The type of analysis performed on the water samples was Inductively Coupled Plasma – Mass Spectrometry (ICP – MS). One sample in Classroom 103 was scheduled for resampling based on the results of the first sampling.

Sample Results:

The action level established by the Environmental Protection Agency (EPA) for lead in drinking water is 15 micrograms per liter (ug/L) and 1300 micrograms per liter (ug/L) for copper.

On April 13, 2021, an environmental consultant from Nova Environmental, Inc. conducted the water sample collection from Classroom 103 at Anderson Middle School. The results of the sample collected and analyzed, was below the action level for lead and copper.

<u>Limitations:</u>

The intent of this sampling was to conduct a simple, cursory screening for lead/copper in drinking water within Berkley School District. Therefore, this report was not intended to or should not be construed to provide any type of regulatory compliance. Furthermore, the sampling from two to four 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 District staff and were based on 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, LLC. is a fully certified laboratory for the analysis of lead and copper in drinking water in the State of Michigan. Included within this report is a Statement of Qualifications for lead and copper analysis along with a copy of their Michigan certification.

Anderson Middle School

Sample ID	Location	Lead	Copper
001	Classroom 103	2 ug/L	330 ug/L



2105 Pless Drive Brighton, Michigan 48114 Phone (810)229-7575 Fax (810)229-8650 E-mail bai-brighton@sbcglobal.net

April 16, 2021

Nova Environmental 5300 Plymouth Rd. Ann Arbor, MI 48105

Subject: Berkley School District CI0136/*131

Dear Ms. Bennett :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 04/14/2021 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 74064 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely, Brighton Analytical, L.L.C.







Brighton Analytical LLC

2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

Sample Date/Time:04/13/2021Submit Date/Time:04/14/2021Report Date:04/16/2021	06:58 16:30				Nova Environ 5300 Plymoutl Ann Arbor, Ml	ı Rd.	
BA Project # 74064 BA Sample ID CO05155		5	t Name: t Number: e ID: 0	CI01	ley School District 36/*131 rson M.S.		
Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Copper (Drinking Water)	330	ug/L	20	1300	EPA 200.8 rev5.4	02:23	04/16/2021
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	02:23	04/16/2021

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.

topoa

Date 4/16/2021

Released by

d PAGE OF COMPANY/MAILING ADDRESS:		ATTN: .	PHONE: 724 020 0005	FAX OR EMAIL: PAX OR EMAIL: officemanager@nova=Env.com	Samples received within hold time (ver no	pHs verified in login ? yes no	Headspace/bubbles in VOA's? yes no wa	Sample containers and COC match? yes no)	BILLING ADDRESS (IF REQUIRED):	Nova Environemtnal, Inc	5300 Plymouth Rd.	Ann Arbor, MI 48105			Drinking H20: FAX TO LCHD yes (no)	Chlorinated Water Supply?	MCL failure: yes no	Client notified (date/time/initials):	ilt in a "hold" on all analyses.	RECEIVED BY: DATE: TIME:		
Analysis Requested/Method				KIIIBIN	عنور Alpha M	/ COPPE	EAD	T	Dw) Wd	DW	DW	DW	DW	DW	DW	DW	DW	DW		Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.	ns. RELINQUISHED BY:		
BA PROJECT #:	ABBREVIATIONS FOR MATRIX S = Solid	L = Liquid DW = Drinking H ₂ 0 O = Oil	Bag)	F = Filter T = Tube M = Misc.	Container/Quantity	A Y N ACTERIA ERVATIVE ESVATIVE	, NO PRES	AMBI BLASS STERI												nd review. Incorrect	DATE: TIME: Trans.	4/14/21 4,300 3	4
Brighton Analytical, L.L.C.TM	sbcglobal.nct Phone: 810-229-7575 FAX: 810-229-8650	ol District		DRESS)	Contai	If RUSH, approved by:	з (ькез	ноъе Ноъе	Yistar 6:58 am X		X	X	X	X	X	X	x	X		hain of Custody completely a	RECEIVED BY:		
Brighton An	2105 Pless Drive Phone: Brighton, MI 48114 FAX:	AME: BERNIGH SCHOOL	F 19210-	RENT	ected By:	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	business days	Sample Description	Anderson Mr S										structions:	Please fill out the C	RELINQUISHED BY:	ui Romit	
		PROJECT NAME	PROJECT #:	PO #: (PLEA	Sample Collected By:	REQUESTE Rush: 1 -3 bus 1 Day =2.5X C	Standard: 5 business days	Brighton ID#	1) 00 [2)	3)	4)	5)	6)	7)	8)	6)	10)	Special Instructions:		Trans.	-	7 7



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY CONTROL

ICP-MS METHOD 200.8/6020

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 4/15/2021, 4/16/2021

Standard ID: 031921 H2O

Batch: 4/15/2021 B10

Matrix Spike Lab ID: CO05155

Analyst: MH

Metals	Matrix Spike - I	Precision *		Matrix Spike	e - Accurac	y**	Miscellaneous***			
	Matrix Spike (ug/L)			Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/L)	Method Blk (ug/L)	LCS- Method STD (%)	Ind. Std. (%)
Copper	1286	1262	1.9	1000	95.9	93.5	327	<20	103.6	101.7
Lead	996	978	1.8	1000	99.4	97.6	2	<1	105.9	99.7

* Matrix spike precision range +/- 20% RPD

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

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

Comments: