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healthAIR - Industrial Hygiene Services
cleanWATER - Consulting & Testing Services
safeEARTH - Hazardous Waste & Recycling Services

December 4, 2020

Mr. Bernie Bowers
Operations Supervisor
Wyandotte Public Schools
639 Oak Street
Wyandotte, Michigan 48192
bbowers@wy.k12.mi.us

RE: **AEG Project # AE180812**
Lead Drinking Water Sampling
JoBrighton Skill Center

Dear Mr. Bowers:

Pursuant to the request of Wyandotte Public Schools, Arch Environmental Group, Inc. (AEG) collected ten (10) representative first draw drinking water lead samples on November 18, 2020, at the JoBrighton Skill Center.

General Information about Lead

There is no federal law requiring testing of drinking water in schools and childcare facilities, except for those that have and/or operate their own public water system and therefore are subject to comply with the Safe Drinking Water Act (SDWA). Drinking water programs are conducted on a voluntary basis.

Lead enters drinking water:

1. *Through Corrosion*
Most lead gets into drinking water after the water leaves the local well or treatment plant and comes into contact with plumbing materials containing lead. These include lead pipe and lead solder (commonly used until 1986) as well as faucets, valves, and other components made of brass. The physical/chemical interaction that occurs between the water and plumbing is referred to as corrosion. The extent to which corrosion occurs contributes to the amount of lead that can be released into the drinking water.
2. *Faucet Aerators*
Many taps that are used to provide water for human consumption have an aerator as part of the faucet assembly. Screens are not intended to remove contaminants in the water but may trap sediment or debris as water passes through the faucet. Lead bearing sediment may end up in drinking water from physical corrosion of leaded solder and can build up in the aerator over time.
3. *Galvanized Piping*
Additionally, galvanized pipes are old iron pipes that were installed in many homes built before the 1960s. Over many years, old corrosion scales build up inside the walls of galvanized pipes. These pipes can cause discolored water and pressure issues. Galvanized pipes can also release lead in water if you have or ever have had a lead service pipe.

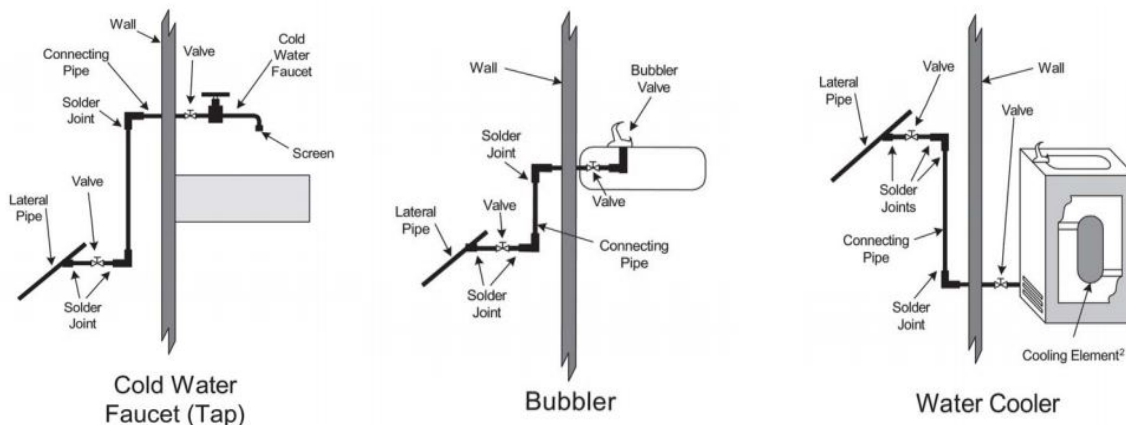
4. Brass Pipes, Faucets Fittings and Valves

Brass used prior to 2014 to deliver drinking water can contribute to lead levels at the tap. Lead has long been used in the foundry process to make brass castings pressure tight. Lead is sometimes added in concentrations of about 2%.

Action Levels

The Lead and Copper Rule (LCR) is a treatment technique rule. Instead of setting a maximum contaminant level (MCL) for lead or copper, the rule requires public water systems to take certain actions to minimize lead and copper in drinking water. The Action Level for lead is 15 ug/L (15 ppb). Beginning January 1, 2025, the action level for lead in the State of Michigan will be lowered to 12 ug/L (12 ppb). In August 2016, the Michigan Department of Environment, Great Lakes, and Energy (EGLE) recommended school districts use the contaminate level goal of 5 ug/L (5 ppb). Finally, in May of 2019, The American Academy of Pediatrics called for new federal standards to ensure water lead concentrations do not exceed 1 ug/L (1 ppb). For this sampling event, the District shall utilize 12 ug/L (ppb) as the Action Level.

Common Drinking Water Outlets



Collection Procedures

All water samples were collected utilizing 250 milliliters (mL) sample bottles as recommended in the August 1, 2016, Version 3.0 "EGLE Guidance on Drinking Water Sampling for Lead and Copper at Schools and Daycares on Community Water Supplies". Sample results are representative of the specific fixture sampled and do not represent the distribution system or other fixtures.

First Draw Sampling:

AEG collected first draw samples. A first draw is the water that is the first to come out of the tap after the period of 8-24 hours of inactivity.

Locations above Action Level

- JoBrighton-05: Conference Room, Two Compartment Sink, Faucet

AEG recommends that the District remove the location identified above the Action Level from service (do not shut off) and follow-up flush sampling conducted from the location identified with elevated lead. Additionally, a plumbing assessment should be conducted to evaluate possible sources of lead and determine if corrective actions are required.

If you have any questions regarding the report, please feel free to contact the cleanWATER team at (248) 426-0165 [office].

Sincerely,

Arch Environmental Group, Inc.
Environmental Services

Brendan Koziol

Brendan Koziol
Consultant

Attachments: Photo
 Results Table
 Analytical Results & Chain of Custody



JoBrighton-05: Conference Room, Two Compartment Sink, Faucet



Wyandotte Public Schools
 Drinking Water Analysis
 Project Number: AE180812

JoBrighton Skill Center							
Date of Sampling: November 18, 2020							
Sampler: Evan Gist							
Sample #	Location	Type ¹	Time Collected	District Lead Action Level (ug/L) ²	Lead Results (ug/L)	Aerator Present Y/N	Notes
JoBrighton-01	First Floor Hallway, Near Courtyard Entrance, Near a main Lobby, Hydration Station, Bottle Fill	Hydration Station	11:15 AM	12	ND ³	Yes	First Draw.
JoBrighton-02	Kitchen, Food Preparation, 2 Compartment Sink, Kitchen Faucet	Kitchen Faucet	11:19 AM	12	ND	Yes	First Draw.
JoBrighton-03	Outside of Kitchen, Soda Dispenser	Other	11:25 AM	12	ND	Yes	First Draw.
JoBrighton-04	Bakery, Kitchen Faucet	Kitchen Faucet	11:29 AM	12	1	Yes	First Draw.
JoBrighton-05	Conference Room, Two Compartment Sink, Faucet	Faucet	11:32 AM	12	22	Yes	First Draw.
JoBrighton-06	Classroom #1, Faucet	Faucet	11:37 AM	12	5	Yes	First Draw.

1) Type: B = Bubbler, BT = Bottle Fill/Cooler, WC = Water Cooler, C = Combination Sink, F = Faucet, KF = Kitchen Faucet, I = Ice Machine, KK = Kitchen Kettle, PC = Plumed Coffee

2) <https://www.epa.gov/your-drinking-water/table-regulated-drinking-water-contaminant>

3) ND = Non Detected at Reported Detection Limit of 1 ug/L

4) NT = Not Tested



Wyandotte Public Schools
Drinking Water Analysis
Project Number: AE180812

JoBrighton Skill Center

Date of Sampling: November 18, 2020

Sampler: Evan Gist

Sample #	Location	Type ¹	Time Collected	District Lead Action Level (ug/L) ²	Lead Results (ug/L)	Aerator Present Y/N	Notes
JoBrighton-07	Classroom #19, Faucet	Faucet	11:40 AM	12	3	Yes	First Draw.
JoBrighton-08	First Floor Hallway, Near Classroom #7, Hydration Station, Bottle Fill	Hydration Station	11:48 AM	12	ND	Yes	First Draw.
JoBrighton-09	Classroom #16, Left Sink, Combination Sink, Faucet	Combination Sink	11:52 AM	12	5	Yes	First Draw.
JoBrighton-10	Kitchenette in Classroom #34, Kitchen Faucet	Kitchen Faucet	11:57 AM	12	ND	Yes	First Draw.

1) Type: B = Bubbler, BT = Bottle Fill/Cooler, WC = Water Cooler, C = Combination Sink, F = Faucet, KF = Kitchen Faucet, I = Ice Machine, KK = Kitchen Kettle, PC = Plumed Coffee

2) <https://www.epa.gov/your-drinking-water/table-regulated-drinking-water-contaminant>

3) ND = Non Detected at Reported Detection Limit of 1 ug/L

4) NT = Not Tested

December 02, 2020

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

Subject: JoBrighton Skill Center IFD
AE180812-WPS

Dear Ms. Eveleth :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 11/19/2020 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 71787 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: 11/18/2020 11:15
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

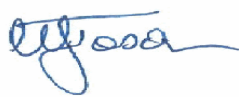
BA Project # **71787**
BA Sample ID **CN07210**
Project Name: **JoBrighton Skill Center IFD**
Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-01 1stFlr HW Nr CY Ent Nr Main Lob**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1.0	15	EPA 200.8 rev5.4	12:58	12/01/2020

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 12/2/2020



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: 11/18/2020 11:19
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

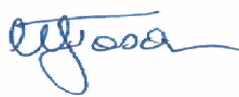
BA Project # **71787**
BA Sample ID **CN07211**
Project Name: **JoBrighton Skill Center IFD**
Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-02 Food Preparation**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1.0	15	EPA 200.8 rev5.4	13:01	12/01/2020

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

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Date 12/2/2020



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Sample Date/Time: 11/18/2020 11:25
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

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37720 Interchange Dr.
Farmington Hills, MI 48335

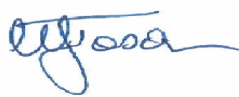
BA Project # **71787**
BA Sample ID **CN07212**
Project Name: **JoBrighton Skill Center IFD**
Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-03 Soda Dispenser Outside Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1.0	15	EPA 200.8 rev5.4	13:04	12/01/2020

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.

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Released by 
Date 12/2/2020



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NELAC Accredited #176507

Sample Date/Time: 11/18/2020 11:29
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

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37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **71787**
BA Sample ID **CN07213**
Project Name: **JoBrighton Skill Center IFD**
Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-04 Bakery Kitchen Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	1	ug/L	1.0	15	EPA 200.8 rev5.4	13:07	12/01/2020

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.

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Released by

Date 12/2/2020



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NELAC Accredited #176507

Sample Date/Time: 11/18/2020 11:32
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

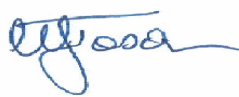
BA Project # **71787**
BA Sample ID **CN07214**
Project Name: **JoBrighton Skill Center IFD**
Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-05 Conference Rm 2Compartment Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	22	ug/L	1.0	15	EPA 200.8 rev5.4	13:10	12/01/2020

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

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Sample Date/Time: 11/18/2020 11:37
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

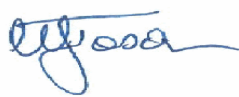
BA Project # **71787**
BA Sample ID **CN07215**
Project Name: **JoBrighton Skill Center IFD**
Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-06 Classroom #1**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	5	ug/L	1.0	15	EPA 200.8 rev5.4	13:21	12/01/2020

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.

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Date 12/2/2020



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Sample Date/Time: 11/18/2020 11:40
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

Arch Environmental Group
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Farmington Hills, MI 48335

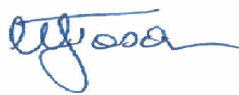
BA Project # **71787**
BA Sample ID **CN07216**
Project Name: **JoBrighton Skill Center IFD**
Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-07 Classroom #19**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	3	ug/L	1.0	15	EPA 200.8 rev5.4	13:24	12/01/2020

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.

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Released by 
Date 12/2/2020



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EGLE Certified #9404
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Sample Date/Time: 11/18/2020 11:48
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

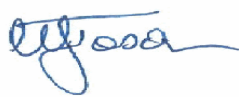
BA Project # **71787**
BA Sample ID **CN07217**
Project Name: **JoBrighton Skill Center IFD**
Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-08 1st Flr Hallway Nr Classroom #7**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1.0	15	EPA 200.8 rev5.4	13:27	12/01/2020

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

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Released by 
Date 12/2/2020



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NELAC Accredited #176507

Sample Date/Time: 11/18/2020 11:52
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

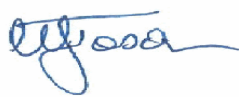
BA Project # **71787**
BA Sample ID **CN07218**
Project Name: **JoBrighton Skill Center IFD**
Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-09 Classroom #16 Left Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	5	ug/L	1.0	15	EPA 200.8 rev5.4	13:30	12/01/2020

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

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Date 12/2/2020



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NELAC Accredited #176507

Sample Date/Time: 11/18/2020 11:57
Submit Date/Time: 11/19/2020 13:30
Report Date: 12/02/2020

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

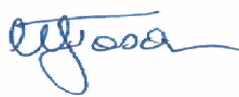
BA Project # **71787** Project Name: **JoBrighton Skill Center IFD**
BA Sample ID **CN07219** Project Number: **AE180812-WPS**
Sample ID: **JoBrighton-10 Kitchenette in Classroom #34**



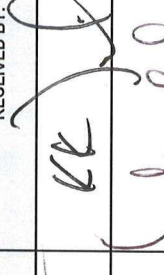
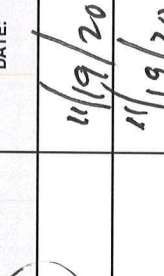
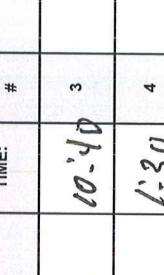
Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1.0	15	EPA 200.8 rev5.4	13:39	12/01/2020

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

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Released by 
Date 12/2/2020

 Brighton Analytical, L.L.C™ 2105 Pless Drive Brighton, MI 48114 Phone: 810-229-7575 Fax: 810-229-8650				BA PROJECT #: <u>7787</u> ABBREVIATIONS FOR SAMPLE MATRIX S = Solid L = Liquid DW = Drinking H ₂ O WW = Wastewater O = Oil P = Wipe A = Air (Tedlar Bag) F = Filter T = Tube M = Misc GW = Groundwater SW = Surface Water				Analysis Requested/Method										PAGE: <u>1</u> OF <u>1</u>					
PROJECT NAME: (48 SPACES MAXIMUM) JoBrighton Skill Center IFD				PROJECT NUMBER: (25 SPACES MAXIMUM) AE180812				P.O. NUMBER: Wyandotte Public Schools				REPORT RESULTS TO: Arch Environmental Group				Attn: Lindsey Eveleth PHONE: FAX: EMAIL: labs@archenvgroup.com							
Sample collected by: Evan Gist				Container Type & Quantity				Sample Matrix				Sample received within holding time? yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Temperature of samples °C:											
REQUESTED TURNAROUND: (X BOX WITH TAT NEEDED) Default TAT Standard: 5 - 10 Business days RUSH: 1 Business day (Verify with lab) RUSH: 2 Business days RUSH: 3 Business days RUSH SURCHARGE 1 DAY=3X COST 2 DAY = 2X COST 3 DAY = 1.5X COST				If RUSH approved by:				(F)ield or (L)ab Preserved: STERILIZED BACTERIA AMBER GLASS (PRESERVE/NOT PRESERVE) AMBER GLASS HDPE NAOH HDPE H ₂ SO ₄ HDPE UNPRESERVED HDPE HNO ₃ FILTERED HDPE HNO ₃ UNFILTERED				pH verified in login? yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Headspace/bubbles in VOA'S? yes <input type="checkbox"/> no <input checked="" type="checkbox"/> n/a <input type="checkbox"/> Sample containers and COC match? yes <input checked="" type="checkbox"/> no <input type="checkbox"/>											
Sample Description 35 Characters Limit				Time Date				DW				BILLING ADDRESS (IF REQUIRED)											
1) 740 JoBrighton-01 First Floor Hallway, Near Courtyard Entrance, Near a main Lobby				11:15 11/18/2020				DW															
2) 11 JoBrighton-02 Food Preparation				11:19 11/18/2020				DW															
3) 12 JoBrighton-03 Soda Dispenser, Outside of Kitchen				11:25 11/18/2020				DW															
4) 13 JoBrighton-04 Bakery Kitchen Sink				11:26:00 AM 11/18/2020				DW															
5) 14 JoBrighton-05 Conference Room, Two Compartment Sink				11:32 11/18/2020				DW															
6) 15 JoBrighton-06 Classroom #1				11:37 11/18/2020				DW															
7) 16 JoBrighton-07 Classroom #19				11:40 11/18/2020				DW															
8) 17 JoBrighton-08 First Floor Hallway, Near Classroom #7				11:48 11/18/2020				DW															
9) 18 JoBrighton-09 Classroom #16, Left Sink				11:52 11/18/2020				DW				Drinking Water: Fax to LCHD? yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Chlorinated Water Supply? yes <input type="checkbox"/> no <input checked="" type="checkbox"/>											
10) 19 JoBrighton-10 Kitchenette in Classroom #34				11:57 11/18/2020				DW				MCL Failure yes <input type="checkbox"/> no <input checked="" type="checkbox"/> 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:				RELINQUISHED BY:				RECEIVED BY:		DATE:		TIME:			
1																							
2																							



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY
CONTROL

ICP-MS

METHOD 200.8/6020

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 12/1/2020	Standard ID: 111120 H2O	Batch: 11/24/2020 B2
Matrix Spike Lab ID: CN07214	Matrix: Total	Analyst: MIH

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. (%)
Lead	1021	1012	0.9	1000	99.9	99.0	22	<1	102.1	107.1

* Matrix spike precision range +/- 20% RPD

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

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

Comments: _____