August 29, 2024

Mr. Clark Mathes
Voorhees Township Public Schools
329 Route 73
Voorhees, New Jersey 08043

RE: Lead in Drinking Water Sampling
Kresson Elementary School
2 School Lane
IEC Project # 2024.184.5

Dear Mr. Mathes:

Indoor Environmental Concepts, LLC (IEC) was retained by Voorhees Township Public Schools to perform testing of the drinking water outlets servicing 2 School Lane for the presence of lead (Pb). The lead in water testing was performed pursuant to the regulations and guidance documents from the New Jersey Safe Drinking Water Act (NJAC 6 7:10-1 et seq.) having principal responsibility to administer the programs and activities of the Federal Safe Drinking Water Act (40 CFR 141, 142 & 143) and the United States Environmental Protection Agency (EPA) protocols as recommended in their publication 3Ts for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance. The EPA developed the 3Ts for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance.

Background

Federal studies indicate that children under the age of six are at the highest risk for harmful lead exposure, and children can be exposed to lead from a variety of sources, including drinking water, paint, soil and even some consumer products. Lead is a toxic metal that can be harmful to human health when ingested or inhaled. Even small doses of lead can be harmful. Unlike most other contaminants, lead is stored in our bones and can be later released into the bloodstream. The groups most vulnerable to lead include fetuses and young children. Drinking water and ingested dust are two likely routes of entry for lead exposure.

Even though water delivered from your community's public water supply must meet Federal and State standards for lead, a facility may have elevated concentrations of lead due to plumbing and water use patterns in the building. The physical/chemical interaction that occurs between the water and plumbing is referred to as corrosion. The extent of which corrosion occurs depends on various factors such as the lead content of the building's plumbing and piping system, water velocity, temperature, alkalinity, chlorine levels, the age and condition of plumbing, and the amount of time water is in contact with the plumbing.

Therefore, the critical issue is that even though your public water supplier may send you water that meets all Federal and State public health standards for lead, you may end up with too much lead

in your drinking water because of the plumbing in your facility. The only way to be certain that lead is not a problem in your school building is to test various drinking water outlets (i.e., taps, bubblers, coolers, etc.) for the substance. That is why testing the water from your drinking water outlets for lead is so important.

IEC collected samples based on previous sampling reports and outlets identified during the work such as kitchen food preparation areas.

Lead Sampling Collection and Analytical Results

Trained technicians collected first draw samples from designated outlets on August 9, 2024. Samples were delivered after each sampling event to a laboratory certified by the New Jersey Department of Environmental Protection (NJ DEP) for analysis. The samples were collected after an 8-to-18-hour stagnation period. All samples were taken before the facility opened and before any water was used by building occupants. Where practical and feasible, samples were first collected at drinking water outlets that were as close as possible to the building water main. Cold water lines were sampled when possible. All water samples were collected in laboratory supplied, pre-cleaned 250 milliliter (mL) bottles. The bottles were labeled with a unique sample identification number and the sample location and time sampled were recorded on the chain of custody form. All samples were sealed immediately after collection and delivered to Eurofins/iATL in Mount Laurel. Analysis was performed for lead content via AAS Graphite Furnace by ASTM Method D3559-15D.

As indicated on the attached laboratory report from Eurofins/iATL, all results were below the NJAC 6A:26112.4 (e) action limit of 15 µ/L**, which is equivalent to 15 ppb**. Therefore, all outlets are acceptable for human consumption.

It should be noted that this sampling was performed in accordance with current guidelines. Should the guidelines change, or legislation dictate other criteria, these results may need to be reevaluated. If you need any further assistance, please do not hesitate to contact our office.

Thank you for the opportunity to provide you with our services. You may contact me if you have any questions or would like to discuss this matter further.

Sincerely,
Indoor Environmental Concepts, LLC

Michael P. Menz, CIH, CHMM
President

IEC
Indoor Environmental Concepts, LLC

003740336

Project Name: Kressen School

File #: 2024.184.5

Laboratory: Eurofins/iATL

Analysis: Lead in Drinking Water ASTM D3559

Turnaround Time: [X] 2 week

Collected by: [signature]

Date: 8/9/24

Transmitted by: mpm

Date: 8/9/24 12:05pm

Received by:

Date:

Sample #	Location		Fixture Type	Time sampled
E1	chiller near room 36	7779956	C	8:49
E2	bottle filler " " "	7779957	BF	8:50
E3	chiller o/s gym	7779958	C	8:52
E4	bottle filler o/s gym	7779959	BF	8:52
E5	bldg. foreman office	7779960	S	8:54
E6	kitchen food prep sink	7779961	S	8:55
E7	kitchen ice maker (Kodiak)	7779962	IM	8:56
E8	Vulcan steamer	7779963	steamer	8:59
E9	Elkay chiller, near room 15	7779964	C	9:01
E10	bottle filler near room 15	7779965	BF	9:02
E11	chiller o/s technology room 15	7779966	C	9:06
E12	bottle filler " " "	7779967	BF	9:07
E13	E.C.C. - 05 bubbler	7779968	B	9:11
E14	EC06 bubbler	7779969	B	9:13
E15	EC07 bubbler	7779970	B	9:14
E16	ECO-10 bubbler	7779971	B	9:15
E17	ECO-9 bubbler	7779972	B	9:16
E18	ECO-8 bubbler	7779973	B	9:18

Email results to:
labresults@indoorenvconcepts.com

Page 1 of 2

AUG - 9 2024

iATL - By [signature]

IEC
Indoor Environmental Concepts, LLC

Project Name: Kresson School File #: 2024.184

Laboratory: Eurofins/iATL Analysis: Lead in Drinking Water ASTM D3559

Turnaround Time: [X] 2 week

Collected by: [signature] Date: 8/9/24

Transmitted by: m/m Date: 8/9/24 12:05pm

Received by: _____ Date: _____

Sample #	Location		Fixture Type	Time sampled
E19	chiller o/s room 5	7779974	C	9:21
E20	bottle filler o/s room 5	7779975	BF	9:21
E21	Early childhood vestibule by door	7779976 bfc filler	BF	9:23
E22	EC04 bubbler	7779977	B	9:24
E23	EC03 bubbler	7779978	B	9:25
E24	EC02 bubbler	7779979	B	9:27
E25	EC01 bubbler	7779980	B	9:29
E26	main office kitchenette	7779981	S	9:33
E27	faculty lounge	7779982	S	9:36

Email results to:
labresults@indoorenvconcepts.com

117 N. Black Horse Pike ® Runnemede, NJ 08078 ® (856) 463-0777 ® www.indoorenvconcepts.com

eurofins | Built Environment Testing
iATL

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Indoor Environmental Concepts, LLC
117 N Black Horse Pike
Runnemede NJ 08078

Client: IND601

Report Date: 8/16/2024
Report No.: 703527 - Lead Water
Project: Kresson School
Project No.: 2024.184.5

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7779956 **Client No.:**E1	**Location:**Chiller Near Room 36 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779957 **Client No.:**E2	**Location:**Bottle Filler Near Room 36 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779958 **Client No.:**E3	**Location:**Chiller O/S Gym * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779959 **Client No.:**E4	**Location:**Bottle Filler O/S Gym * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779960 **Client No.:**E5	**Location:**Bldg. Foreman Office * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779961 **Client No.:**E6	**Location:**Kitchen Food Prep Sink * Sample acidified to pH <2.	**Result(ppb):**2.80
Lab No.:7779962 **Client No.:**E7	**Location:**Kitchen Ice Maker (Kodaire) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779963 **Client No.:**E8	**Location:**Vulcan Steamer * Sample acidified to pH <2.	**Result(ppb):**12.3
Lab No.:7779964 **Client No.:**E9	**Location:**Elkay Chiller Near Room 151 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779965 **Client No.:**E10	**Location:**Bottle Filler Near Room 151 * Sample acidified to pH <2.	**Result(ppb):**<1.00

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/9/2024
Date Analyzed: 08/16/2024
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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iATL

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CERTIFICATE OF ANALYSIS

Client: Indoor Environmental Concepts, LLC
117 N Black Horse Pike
Runnemede NJ 08078

Client: IND601

Report Date: 8/16/2024
Report No.: 703527 - Lead Water
Project: Kresson School
Project No.: 2024.184.5

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7779966 **Client No.:**E11	**Location:**Chiller O/S Technology Room 15 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779967 **Client No.:**E12	**Location:**Bottle Filler O/S Technology Room 15 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779968 **Client No.:**E13	**Location:**E.C.C 05 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779969 **Client No.:**E14	**Location:**ECO 6 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779970 **Client No.:**E15	**Location:**ECO 7 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779971 **Client No.:**E16	**Location:**ECO 10 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779972 **Client No.:**E17	**Location:**ECO 9 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779973 **Client No.:**E18	**Location:**ECO 8 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779974 **Client No.:**E19	**Location:**Chiller O/S Room 5 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779975 **Client No.:**E20	**Location:**Bottle Filler O/S Room 5 * Sample acidified to pH <2.	**Result(ppb):**<1.00

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/9/2024
Date Analyzed: 08/16/2024
Signature: Mark Stewart
Analyst: Mark Stewart

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Indoor Environmental Concepts, LLC
117 N Black Horse Pike
Runnemede NJ 08078

Client: IND601

Report Date: 8/16/2024
Report No.: 703527 - Lead Water
Project: Kresson School
Project No.: 2024.184.5

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7779976 **Client No.:**E21	**Location:**Early Childhood Vestibule By Door D16 Bottle Filler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779977 **Client No.:**E22	**Location:**ECO4 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779978 **Client No.:**E23	**Location:**ECO3 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779979 **Client No.:**E24	**Location:**ECO4 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779980 **Client No.:**E25	**Location:**ECO1 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7779981 **Client No.:**E26	**Location:**Main Office Kitchenette * Sample acidified to pH <2.	**Result(ppb):**3.20
Lab No.:7779982 **Client No.:**E27	**Location:**Faculty Lounge * Sample acidified to pH <2.	**Result(ppb):**<1.00

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/9/2024
Date Analyzed: 08/16/2024
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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	117 N Black Horse Pike	Report No.:	703527 - Lead Water
	Runnemede NJ 08078	Project:	Kresson School
		Project No.:	2024.184.5
Client:	IND601		

Appendix to Analytical Report:

Customer Contact: Lab Results
Analysis: AAS-GF - ASTM D3559-15D

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL OfficeManager: ?wchampion@iatl.com
iATL Account Representative: Shirley Clark
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Water
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:
- ASTM D3559-15D

Certification:
- NYS-DOH No. 11021
- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B
- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample
- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

Regulatory limit for lead in drinking water is 15.0 parts per billion as cited in EPA 40 CFR 141.11 National Primary Drinking Water Regulations, Subpart B: Maximum contaminant levels for inorganic chemicals.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Sample results are not corrected for contamination by field or analytical blanks.

PPB = Parts per billion. 1 µg/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 1.0 PPB

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		Project No.:	2024.184.5
Client:	IND601		

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com.**

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

Water Sample Turbidity greater than 1.0 NTU does not meet Federal and NJ State Primary & Secondary Drinking Water Standards.

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.