

August 29, 2024

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

RE: Lead in Drinking Water Sampling

Voorhees Middle School 1000 Holly Oak Drive IEC Project # 2024.184.1

Dear Mr. Mathes:

Indoor Environmental Concepts, LLC (IEC) was retained by Voorhees Township Public Schools to perform testing of the drinking water outlets servicing 1000 Holly Oak Drive 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 67:10-1 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

August 29, 2024 Voorhees Township Public Schools Lead in Drinking Water Sampling-Voorhees MS IEC Project # 2024.184.1

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 2, 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





Project Name: Voorhees Middle School

File #: 2024.184,)

Eurofins/iATL Laboratory:

Analysis: Lead in Drinking Water ASTM D3559

Turnaround Time: X 2 week

Collected by: Will Chan

Transmitted by: MALC M

Received by: _____

	8.76	ilim buy.	A CONTRACTOR OF THE PARTY OF TH
Sample #	Location	Fixture Type	Time sampled
Al	right fountain next to P-15	<u>C</u>	7:36778178
AZ	right fountain next to P-15 bottle filler h	BF	7:37778179
A3	left willer non down C-17	(_	7:35778180
AH	acabet 11 h	C	7:3078181
A5	bottle filler ' '	B\$	736778182
A6	girls lavoray by 2002 C-17 (Ewing)	S	746778183
FA	boys launday " L19)	2	7:4778284
AS	chiller (left) across E14	C.	7 47781 55
A9	bottle filler across Et4	BF	7348778186
込む	right chiller next to Elo	4	7 43773 39
All	bottle filler next to Eb	BF	7446778188
AR	chiller near 25th C-3		7:4778:19
À13	bottle filler non C-3	BF	7.3378.30
A14	fronty mon lavatory across C-5	S	7:3278191
A15	faculty women ladation next to P-7	5	7 3373 3
A16	loft chiller between X31 & boys lav.	C	7:3778193
A17	left bottle filler " "	BF	7:3778194
A 18	right chiller in in	- 6	7:3778.05

Email results to:

labresults@indoorenvconcepts.com

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Project Name: Voorhees Middle	File #: <u>2024.184</u> , \
Laboratory: Eurofins/iATL	Analysis: Lead in Drinking Water ASTM D3559
Turnaround Time: X 2 week	
Collected by: Mile China	
Transmitted by:	Date: 1/2/27 10/20 AM
Received by:	Date:

Sample #	Location	Fixture Type	Time sampled
A19	right bottle filler between A-31 + boxs	BF	7757781.16
Y50	boys lautory b/w A31 \$ A34 A30	S	87778
AR1	girls launtary b/w 130 \$ A29	S	8:367781
264	old cafe/kitchen food prep sink	S	8027781
A33	Kitchen "Hot Chard" steamer	S	8-477300
A24	tankers lounge next to old cake	S	8:09777820
Aas	gender neutral loveling next to store door	S	8: 2777820
Asb	left chiller ofs boys locker (across thereter)	-	80477782
AIT	iest bothe filter " " "	BF	8:57773.
SEA	right chiller " " " "	C	8:147783
129	right bottle filler 1 ""	BF	8177778
À30	boys bothroom o/s gym/theater in truster	S	8197778
A31	girls " " by trophy	5	F207778
A32	left diller by P-11 (o/s theater)	C-	80007773
A33	bothk filler (left)	BF	8:337778
A3 4	center chiller " "	2	8:2477782
A35	center bottle filler	BF	Fa 7778
A36	right chiller	2	8 29778

Email results to:

labresults@indoorenvconcepts.com

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Project Name: Yourhoes Middle	File #: 2024.184 .
Laboratory: Eurofins/iATL	Analysis: Lead in Drinking Water ASTM D3559
Turnaround Time: X 2 week Collected by:	Date: 8/2/24 10:20Am
Received by:	Date:

Sample #	Location	Fixture Type	Time sampled
A37	right bottle filler by P-11	BF	837778
A38	chiller at don Al o/s main Office	Ċ-	8:27778
139	with filler " " "	BF	83773
A40	main office kitchenethe	2	8:37778
A41	Hurse office	S	F:337778
A42	bottle filler across A-16	B¥	মপ্ত 777 8
A43	bottle filler o/s P-10	BF	8:377778
AHH	chiller n h	C	838778
945	bottle filler between library \$ D7 chiller	BF	5:49777
AHLO	chiller " h n	C	8:4/777
AHT	faculty dining across B2	S	84377
	ACILIFIED NO		5
	81124 7:00		

Email results to:

labresults@indoorenvconcepts.com

Page 3 of 3



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Indoor Environmental Concepts, LLC

117 N Black Horse Pike Runnemede NJ 08078

Client: IND601

Report Date: 8/13/2024

Report No.: 70326

703265 - Lead Water

Project:
Project No.:

Voorhees Middle School

2024.184.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7778178 Client No.:A1	Location: Right Fountain Next To P-15 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7778179 Client No.: A2	Location: Bottle Filler Next To P-15 * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7778180 Client No.:A3	Location: Left Chiller Near Door C-17 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.:7778181 Client No.: A4	Location: Right Chiller Near Door C-17	Result(ppb):<1.00
Lab No.:7778182 Client No.:A5	Location: Bottle Filler Near Door C-17 * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7778183 Client No.:A6	Location: Girls Lavatory By Door C-17 (E Wing) * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.:7778184 Client No.:A7	Location: Boys Lavatory By Door C-17 (19) * Sample acidified to pH <2.	Result(ppb): 1.10
Lab No.:7778185 Client No.:A8	Location: Chiller (Left) Across E14 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.:7778186 Client No.:A9	Location: Bottle Filler Across E14 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.:7778187 Client No.:A10	Location: Right Chiller Next To E6 * 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:

8/2/2024

Date Analyzed:

Dated: 8/13/2024 10:52:57

08/13/2024

Signature: Analyst:

Mark Stewart

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 1 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Indoor Environmental Concepts, LLC

117 N Black Horse Pike Runnemede NJ 08078

Client: IND601

Report Date: 8/13/2024

Report No.:

703265 - Lead Water

Project:

Voorhees Middle School

Project No.: 2024.184.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7778188 Client No.:A11	Location: Bottle Filler Next To E6 * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7778189 Client No.:A12	Location: Chiller Near C-3 * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7778190 Client No.:A13	Location:Bottle Filler Near C-3 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.:7778191 Client No.:A14	Location: Faculty Men Lavatory Across C-5 * Sample acidified to pH <2.	
Lab No.:7778192 Client No.:A15	Location: Faculty Women Lavatory Next To P-7 * Sample acidified to pH <2.	Result(ppb):1.20
Lab No.:7778193 Client No.:A16	Location: Left Chiller Between A31 And Boys Lav * Sample acidified to pH <2.	
Lab No.:7778194 Client No.:A17	Location: Left Bottle Filler Between A31 And Boys Lav	
Lab No.:7778195 Client No.:A18	Location: Right Chiller Between A31 And Boys Lav * Sample acidified to pH <2.	
Lab No.: 7778196 Client No.: A19	Location: Right Bottle Filler Between A31 And Boys Lav	
Lab No.:7778197 Client No.:A20	Location: Boys Lavatory B/W A31 And A30 * 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:

8/2/2024

Date Analyzed:

08/13/2024

Signature:

Analyst: Mark Stewart

Dated: 8/13/2024 10:52:57

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 2 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Indoor Environmental Concepts, LLC

117 N Black Horse Pike Runnemede NJ 08078

Client: IND601

Report Date: 8/13/2024

Report No.: 7032

703265 - Lead Water

Project:

Voorhees Middle School

Project No.: 2024.184.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7778198 Client No.:A21	Location: Girls Lavatory B/W A30 And A29 * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7778199 Client No.:A22	Location:Old Cafe/Kitchen Food Prep Sink * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.:7778200 Client No.:A23	Location: Kitchen "Hot Chaud" Steamer * Sample acidified to pH <2.	Result(ppb): 1.10
Lab No.:7778201 Client No.:A24	Location: Teachers Lounge Next To Old Cafe * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.:7778202 Client No.:A25	Location: Gender Neutral Lavatory Next To Storage Door * Sample acidified to pH <2.	
Lab No.:7778203 Client No.:A26	Location:Left Chiller O/S Boys Locker (Across Theater) * Sample acidified to pH <2.	
Lab No.:7778204 Client No.:A27	Location:Left Bottle Filler O/S Boys Locker (Across Theater) * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7778205 Client No.:A28	Location: Right Chiller O/S Boys Locker (Across Theater) * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.: 7778206 Client No.: A29	Location: Right Bottle Filler O/S Boys Locker (Across Theater) * 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:

8/2/2024

Date Analyzed:

Dated: 8/13/2024 10:52:57

08/13/2024

Signature: Analyst:

Mark Stewart

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 3 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Indoor Environmental Concepts, LLC

117 N Black Horse Pike Runnemede NJ 08078

Client: IND601

Report Date: 8/13/2024

Report No.: 7

703265 - Lead Water

Project:

Voorhees Middle School

Project No.: 2024.184.1

LEAD WATER SAMPLE ANALYSIS SUMMARY

* Sample acidified to pH <2.	
Location: Girls Bathroom O/S Gym Theater By Trophy Cases * Sample acidified to pH <2.	Result(ppb):<1.00
Location: Ledft Chiller By P-11 (O/S Theater) * Sample acidified to pH <2.	Result(ppb):<1.00
Location: Bottle Filler (Left) * Sample acidified to pH <2.	Result(ppb):<1.00
Location: Center Chiller * Sample acidified to pH <2.	Result(ppb): <1.00
Location: Center Bottle Filler * Sample acidified to pH <2.	Result(ppb):<1.00
Location:Right Chiller * Sample acidified to pH <2.	Result(ppb):<1.00
Location: Right Bottle Filler By P-11 * Sample acidified to pH <2.	Result(ppb): <1.00
Location: Chiller At Door A1 O/S Main Office * Sample acidified to pH <2.	
Location: Bottle Filler Door A1 O/S Main Office * Sample acidified to pH <2.	Result(ppb):<1.00
	Cases * Sample acidified to pH <2. Location: Ledft Chiller By P-11 (O/S Theater) * Sample acidified to pH <2. Location: Bottle Filler (Left) * Sample acidified to pH <2. Location: Center Chiller * Sample acidified to pH <2. Location: Center Bottle Filler * Sample acidified to pH <2. Location: Right Chiller * Sample acidified to pH <2. Location: Right Bottle Filler By P-11 * Sample acidified to pH <2. Location: Chiller At Door A1 O/S Main Office * Sample acidified to pH <2. Location: Bottle Filler Door A1 O/S Main Office

Date Received:

8/2/2024

Date Analyzed:

08/13/2024

Signature:

Analyst: Mark Stewart

Dated: 8/13/2024 10:52:57

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

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Client: IND601

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 Report Date:

117 N Black Horse Pike Report No.: 703265 - Lead Water
Runnemede NJ 08078 Project: Voorhees Middle School

Project No.: 2024.184.1

8/13/2024

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7778217 Location: Main Office Kitchenette Result(ppb):<1.00

Client No.: A40 * Sample acidified to pH <2.

Lab No.:7778218 Location: Nurse Office Result(ppb):11.0

Client No.: A41 * Sample acidified to pH <2.

Lab No.:7778219 Location: Bottle Filler Across A-16 Result(ppb):<1.00

Client No.: A42 * Sample acidified to pH <2.

Lab No.:7778220 Location: Bottle Filler O/S P-10 Result(ppb):<1.00

Client No.: A43 * Sample acidified to pH <2.

Lab No.: 7778221 Location: Chiller O/S P-10 Result(ppb): <1.00

Client No.: A44 * Sample acidified to pH <2.

Lab No.:7778222 Location: Bottle Filler Between Library And D7 Result(ppb):<1.00

Client No.: A45 * Sample acidified to pH <2.

Lab No.:7778223 Location: Chiller Result(ppb):<1.00

Lab No.:7778224 Location: Faculty Dining Across B2 Result(ppb):<1.00

Client No.: A47 * Sample acidified to pH <2.

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

Date Received:

Dated: 8/13/2024 10:52:57

8/2/2024

Date Analyzed:

08/13/2024

Signature: Analyst:

Mark Stewart

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Indoor Environmental Concepts, LLC Report Date: 8/13/2024

117 N Black Horse Pike Report No.: 703265 - Lead Water
Runnemede NJ 08078 Project: Voorhees Middle School

Client: IND601 Project No.: 2024.184.1

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 μ g/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 1.0 PPB

Dated: 8/13/2024 10:52:57 Page 6 of 7



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Indoor Environmental Concepts, LLC Report Date: 8/13/2024

117 N Black Horse Pike Report No.: 703265 - Lead Water
Runnemede NJ 08078 Project: Voorhees Middle School

Client: IND601 Project No.: 2024.184.1

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.

Dated: 8/13/2024 10:52:57 Page 7 of 7