

January 31, 2017

Lower Township Elementary School District
Maud Abrams
714 Town Bank Road
Cape May, NJ 08204

Dear Maud Abrams Community,

Our school system is committed to protecting student, teacher, and staff health. To protect our community and be in compliance with the Department of Education regulations, Lower Township Elementary School District tested our schools' drinking water for lead.

In accordance with the Department of Education regulations, Maud Abrams will implement immediate remedial measures for any drinking water outlet with a result greater than the action level of 15 µg/l (parts per billion [ppb]). This includes turning off the outlet unless it is determined the location must remain on for non-drinking purposes. In these cases, a "DO NOT DRINK – SAFE FOR HANDWASHING ONLY" sign will be posted.

Results of our Testing

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, we completed a plumbing profile for each of the buildings within Lower Township Elementary School District. Through this effort, we identified and tested all drinking water and food preparation outlets. Of the 42 samples taken, all but 12 tested below the lead action level established by the US Environmental Protection Agency for lead in drinking water (15 µg/l [ppb]).

The table below identifies the drinking water outlets that tested above the 15 µg/l for lead, the actual lead level, and what temporary remedial action Lower Township Elementary School District has taken to reduce the levels of lead at these locations.

Sample Location	First Draw Result in µg/l (ppb)	Remedial Action
Exterior Faucet Near Boiler Room Lab No.: 6130350 Client No.:53	27.2	Disconnected outlet and bottled water provided # 41271
Fountain Rm D-5 Lab No. 6130353 Client No.: 58	18.2	Disconnected outlet and bottled water provided # 41272
Fountain Hall Near D-1 Lab No.: 6130355 Client No.: 62	16.9	Disconnected outlet and bottled water provided # 40754
Fountain Rm C-1 Lab No.: 6130358 Client No.: 67	17.5	Disconnected outlet and bottled water provided # 41291
Fountain C-4 Lab No.: 6130361 Client No.: 74	23.0	Disconnected outlet and bottled water provided # 41274
Fountain Hall Near C-1 Lab No.: 6130362 Client No.: 75	22.4	Disconnected outlet and bottled water provided # 40755
Exterior Faucet Near Door #43 Lab No.: 6130364 Client No.: 77	470	Disconnected outlet and bottled water provided # 41276
Fountain Rm A-3a Lab No.: 6130369 Client No.: 6	115	Disconnected outlet and bottled water provided # 41277
Fountain Rm A-4a Lab No.: 6130371 Client No.: 10	88.00	Disconnected outlet and bottled water provided # 41278
Fountain Rm A-2 Lab No.: 6130372 Client No.: 13	26.4	Disconnected outlet and bottled water provided # 41279

Fountain Rm B-4 Lab No.: 6130375 Client No.: 20	71.0	Disconnected outlet and bottled water provided # 41280
Fountain Rm B-1 Lab No.: 6130387 Client No.: 48	18.9	Disconnected outlet and bottled water provided # 41281

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At *very* high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain fairly high levels of lead.

Lead in Drinking Water

Lead in drinking water, although rarely the sole cause of lead poisoning can significantly increase a person's total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.


For More Information

A copy of the test results is available in our central office for inspection by the public, including students, teachers, other school personnel, and parents, and can be viewed between the hours of 7:00 a.m. and 3:00 p.m. and are also available on our website at www.lowertwpschools.com. For more information about water quality in our schools, contact Fred Fala, Supervisor at the Buildings and Grounds, 609-884-9400 ext 2701.

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

If you are concerned about lead exposure at this facility or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,


Jeff Samaniego
Superintendent of Schools

CERTIFICATE OF ANALYSIS

Client: Coastal Environmental
721 Flittertown Rd
Hammonton NJ 08037

Report Date: 1/27/2017
Report No.: 528044 - Lead Water
Project: Lower Township - Maud Abraus School
Project No.:

Client: COA212

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6130349 **Location:**POE-Boiler Rm **Result(ppb):**<2.00
Client No.:52

Lab No.:6130350 **Location:**Exterior Faucet Near Boiler Rm **Result(ppb):**27.2
Client No.:53

Lab No.:6130351 **Location:**Fountain Rm D-1 **Result(ppb):**14.6
Client No.:54

Lab No.:6130352 **Location:**Fountain Rm D-3 **Result(ppb):**7.70
Client No.:57

Lab No.:6130353 **Location:**Fountain Rm D-5 **Result(ppb):**18.2
Client No.:58

Lab No.:6130354 **Location:**Fountain Rm D-6 **Result(ppb):**13.5
Client No.:61

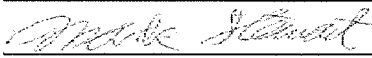
Lab No.:6130355 **Location:**Fountain Hall Near D-1 **Result(ppb):**16.9
Client No.:62

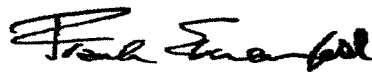
Lab No.:6130356 **Location:**Fountain Rm D-4 **Result(ppb):**6.10
Client No.:63

Lab No.:6130357 **Location:**Fountain Rm D-2 **Result(ppb):**12.6
Client No.:66

Lab No.:6130358 **Location:**Fountain Rm C-1 **Result(ppb):**17.5
Client No.:67

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

Date Received: 1/23/2017
Date Analyzed: 01/27/2017
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6130359 **Location:**Fountain Rm C-3 **Result(ppb):**11.5
Client No.:70

Lab No.:6130360 **Location:**Fountain Rm C-5 **Result(ppb):**13.0
Client No.:71

Lab No.:6130361 **Location:**Fountain C-4 **Result(ppb):**23.0
Client No.:74

Lab No.:6130362 **Location:**Fountain Hall Near C-1 **Result(ppb):**22.4
Client No.:75

Lab No.:6130363 **Location:**Fountain Rm C-2 **Result(ppb):**11.6
Client No.:76

Lab No.:6130364 **Location:**Exterior Faucet Near Door #43 **Result(ppb):**470
Client No.:77


Lab No.:6130365 **Location:**Fountain Rm C-6 **Result(ppb):**14.7
Client No.:78

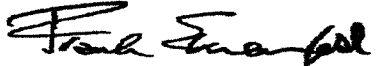
Lab No.:6130366 **Location:**Nurse Sink **Result(ppb):**2.30
Client No.:2

Lab No.:6130367 **Location:**Fountain Hall Near Nurse **Result(ppb):**5.30
Client No.:3

Lab No.:6130368 **Location:**Fountain Rm A-1 **Result(ppb):**8.40
Client No.:4

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6130369 **Location:**Fountain Rm A-3a **Result(ppb):**115
Client No.:6

Lab No.:6130370 **Location:**Sink Rm A-5 **Result(ppb):**4.50
Client No.:8

Lab No.:6130371 **Location:**Fountain Rm A-4a **Result(ppb):**88.0
Client No.:10

Lab No.:6130372 **Location:**Fountain Rm A-2 **Result(ppb):**26.4
Client No.:13

Lab No.:6130373 **Location:**Sink Teachers Break Rm **Result(ppb):**11.3
Client No.:18

Lab No.:6130374 **Location:**Fountain Rm B-2 **Result(ppb):**8.00
Client No.:19

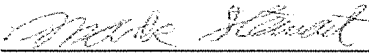
Lab No.:6130375 **Location:**Fountain Rm B-4 **Result(ppb):**71.0
Client No.:20

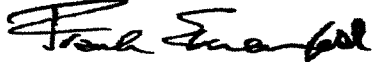
Lab No.:6130376 **Location:**Fountain Rm B-6 **Result(ppb):**8.50
Client No.:21

Lab No.:6130377 **Location:**Fountain Rm B-8 **Result(ppb):**8.30
Client No.:22

Lab No.:6130378 **Location:**Fountain Rm B-7 **Result(ppb):**11.2
Client No.:23

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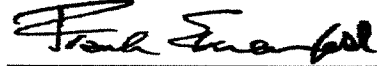
Client: COA212

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 6130379 Client No.: 24	Location: Fountain Rm B-5	Result(ppb): 14.3
Lab No.: 6130380 Client No.: 25	Location: Fountain Hall Near B-5	Result(ppb): <2.00
Lab No.: 6130381 Client No.: 35	Location: Fountain Left Near Bathroom #5	Result(ppb): <2.00
Lab No.: 6130382 Client No.: 36	Location: Fountain Right Near Bathroom #6	Result(ppb): <2.00
Lab No.: 6130383 Client No.: 37	Location: Fountain Hall Near Bathroom #6	Result(ppb): <2.00
Lab No.: 6130384 Client No.: 46	Location: Fountain Hall Near Bathroom #9	Result(ppb): <2.00
Lab No.: 6130385 Client No.: 47	Location: Sink Rm B-3	Result(ppb): <2.00
Lab No.: 6130386 Client No.: 48	Location: Fountain Rm B-1	Result(ppb): 18.9
Lab No.: 6130387 Client No.: 49	Location: Kitchen Food Prep Kettle Faucet	Result(ppb): 10.0
Lab No.: 6130388 Client No.: 50	Location: Kitchen Sink Drop In	Result(ppb): 11.6

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Laboratory Director

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Project No.:

Client: COA212

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6130389
Client No.:51

Location:Kitchen (3 Well) Sink Left

Result(ppb):8.30

Lab No.:6130390
Client No.:51-A

Location:Kitchen (3 Well) Sink Right

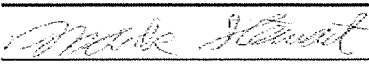
Result(ppb):14.3

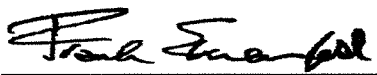
Lab No.:6130391
Client No.:Blank

Location:

Result(ppb):<2.00

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Project No.:

Client: COA212

Appendix to Analytical Report:

Customer Contact: Cathy Ledden
Analysis: AAS-GF - ASTM D3559-08D, USEPA 40CFR 141.11B, 2010

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 Office Manager: cdavis@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 in 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.

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Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:
- ASTM D3559-08D, USEPA 40CFR 141.11B, 2010
- USEPA 200.9Pb, AAS-GF, RL <2 ppb/sample
- USEPA SW 846-7000B:7421 - Pb(AAS-GF, RL <2 ppb/sample)

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

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) = 2.0 PPB

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.

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