



*Dr. Edythe B. Austermuhl*  
Superintendent

**BERLIN TOWNSHIP SCHOOL DISTRICT**

(856) 767-9480 Fax (856) 767-8235 225 Grove Avenue West Berlin, NJ 08091

*Megan Stoddart*  
Business Administrator

*Dina Bottley*  
Curriculum Coordinator

*Kristin Braidwood*  
Supervisor of Special Services

*Thomas Cunningham*  
Technology Coordinator

*Charles Pfluger, C.E.F.M.*  
Supervisor Buildings and Grounds

March 9, 2022

Dear Parents and Staff,

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, the Berlin Township School District tested our schools' drinking water for lead.

In accordance with the Department of Education regulations, the John F. Kennedy and Dwight D. Eisenhower Schools 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.

Testing Results

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 the Berlin Township School District. Through this effort, we identified and tested all drinking water and food preparation outlets. Of the 68 samples taken, all but 4 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 the Berlin Township School District has taken to reduce the levels of lead at these locations.

<b>Sample Location</b>	<b>First Draw Result in µg/l (ppb)</b>	<b>Remedial Action</b>
JFK Classroom 12 ID # JFK-DW-64-12	36.0	Disabled bubbler. Posted signage "DO NOT DRINK- SAFE FOR HANDWASHING ONLY". Additional testing to follow.
JFK Classroom 5 ID # JFK-DW-64-5	17.6	Disabled bubbler. Posted signage "DO NOT DRINK- SAFE FOR HANDWASHING ONLY". Additional testing to follow.
DDE Classroom 8 ID # DDE-DW-68-8	22.4	Disabled bubbler. Posted signage "DO NOT DRINK- SAFE FOR HANDWASHING ONLY". Additional testing to follow.
DDE Classroom 29 ID # DDE-S-72-29	35.5	Posted signage "DO NOT DRINK- SAFE FOR HANDWASHING ONLY". Additional testing to follow.

## 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 8:30 a.m. and 4:00 p.m. and are also available on our website at [www.btwpschools.org](http://www.btwpschools.org). For more information about water quality in our schools, contact Chuck Pfluger, Supervisor of Buildings & Grounds at 856-767-9480 extension 1123.

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](http://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,

Edythe B. Austermuhl, Ed. D.  
Superintendent of Schools

CERTIFICATE OF ANALYSIS

Client: Berlin Township School District  
225 Grove Ave.  
West Berlin NJ 08091


Report Date: 3/7/2022  
Report No.: 654495 - Lead Water  
Project: Lead in Water Testing  
Project No.:


Client: BER001

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7375545 Client No.: K1	Location: * Sample acidified to pH <2.	Result(ppb): 3.40
Lab No.: 7375546 Client No.: K2	Location: * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375547 Client No.: K3	Location: * Sample acidified to pH <2.	Result(ppb): 4.00
Lab No.: 7375548 Client No.: K4	Location: * Sample acidified to pH <2.	Result(ppb): 1.60
Lab No.: 7375549 Client No.: K5	Location: * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375550 Client No.: K6	Location: * Sample acidified to pH <2.	Result(ppb): 2.20
Lab No.: 7375551 Client No.: K7	Location: * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375552 Client No.: K8	Location: * Sample acidified to pH <2.	Result(ppb): 2.50
Lab No.: 7375553 Client No.: K9	Location: * Sample acidified to pH <2.	Result(ppb): 1.60
Lab No.: 7375554 Client No.: K10	Location: * Sample acidified to pH <2.	Result(ppb): 1.80

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

Date Received: 2/28/2022  
Date Analyzed: 03/04/2022  
Signature:   
Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Berlin Township School District  
225 Grove Ave.  
West Berlin NJ 08091

Report Date: 3/7/2022  
Report No.: 654495 - Lead Water  
Project: Lead in Water Testing  
Project No.:

Client: BER001

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7375555                      Location:                      Result(ppb): 5.10  
Client No.: K11                      \* Sample acidified to pH <2.

Lab No.: 7375556                      Location:                      Result(ppb): 2.80  
Client No.: K12                      \* Sample acidified to pH <2.

Lab No.: 7375557                      Location:                      Result(ppb): 6.90  
Client No.: K13                      \* Sample acidified to pH <2.

Lab No.: 7375558                      Location:                      Result(ppb): 7.00  
Client No.: K14                      \* Sample acidified to pH <2.

Lab No.: 7375559                      Location:                      Result(ppb): 36.0  
Client No.: K15                      \* Sample acidified to pH <2.

Lab No.: 7375560                      Location:                      Result(ppb): 3.70  
Client No.: K16                      \* Sample acidified to pH <2.


Lab No.: 7375561                      Location:                      Result(ppb): 2.50  
Client No.: K17                      \* Sample acidified to pH <2.

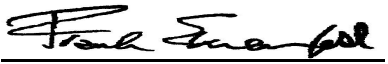
Lab No.: 7375562                      Location:                      Result(ppb): 7.30  
Client No.: K18                      \* Sample acidified to pH <2.

Lab No.: 7375563                      Location:                      Result(ppb): 5.10  
Client No.: K19                      \* Sample acidified to pH <2.

Lab No.: 7375564                      Location:                      Result(ppb): 5.60  
Client No.: K20                      \* Sample acidified to pH <2.

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Analyst: Mark Stewart

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Frank E. Ehrenfeld, III  
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225 Grove Ave.  
West Berlin NJ 08091

Report Date: 3/7/2022  
Report No.: 654495 - Lead Water  
Project: Lead in Water Testing  
Project No.:

Client: BER001

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7375565                      Location:                      Result(ppb): 9.10  
Client No.: K21                      \* Sample acidified to pH <2.

Lab No.: 7375566                      Location:                      Result(ppb): <1.00  
Client No.: K22                      \* Sample acidified to pH <2.

Lab No.: 7375567                      Location:                      Result(ppb): 1.00  
Client No.: K23                      \* Sample acidified to pH <2.

Lab No.: 7375568                      Location:                      Result(ppb): 1.80  
Client No.: K24                      \* Sample acidified to pH <2.

Lab No.: 7375569                      Location:                      Result(ppb): 17.6  
Client No.: K25                      \* Sample acidified to pH <2.

Lab No.: 7375570                      Location:                      Result(ppb): 1.10  
Client No.: K26                      \* Sample acidified to pH <2.


Lab No.: 7375571                      Location:                      Result(ppb): 2.50  
Client No.: K27                      \* Sample acidified to pH <2.


Lab No.: 7375572                      Location:                      Result(ppb): 4.60  
Client No.: K28                      \* Sample acidified to pH <2.

Lab No.: 7375573                      Location:                      Result(ppb): 3.50  
Client No.: K29                      \* Sample acidified to pH <2.

Lab No.: 7375574                      Location:                      Result(ppb): 2.20  
Client No.: K30                      \* Sample acidified to pH <2.

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Report Date: 3/7/2022  
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Project: Lead in Water Testing  
Project No.:

Client: BER001

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7375575                      Location:                      Result(ppb): <1.00  
Client No.: K31                      \* Sample acidified to pH <2.

Lab No.: 7375576                      Location:                      Result(ppb): <1.00  
Client No.: K32                      \* Sample acidified to pH <2.

Lab No.: 7375577                      Location:                      Result(ppb): <1.00  
Client No.: K33                      \* Sample acidified to pH <2.

Lab No.: 7375578                      Location:                      Result(ppb): <1.00  
Client No.: K34                      \* Sample acidified to pH <2.

Lab No.: 7375579                      Location:                      Result(ppb): <1.00  
Client No.: K35                      \* Sample acidified to pH <2.

Lab No.: 7375580                      Location:                      Result(ppb): <1.00  
Client No.: K36                      \* Sample acidified to pH <2.


Lab No.: 7375581                      Location:                      Result(ppb): <1.00  
Client No.: E1                      \* Sample acidified to pH <2.

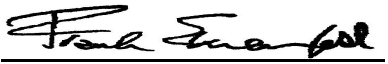
Lab No.: 7375582                      Location:                      Result(ppb): <1.00  
Client No.: E2                      \* Sample acidified to pH <2.

Lab No.: 7375583                      Location:                      Result(ppb): <1.00  
Client No.: E3                      \* Sample acidified to pH <2.

Lab No.: 7375584                      Location:                      Result(ppb): <1.00  
Client No.: E4                      \* Sample acidified to pH <2.

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Client: Berlin Township School District  
225 Grove Ave.  
West Berlin NJ 08091

Report Date: 3/7/2022  
Report No.: 654495 - Lead Water  
Project: Lead in Water Testing  
Project No.:

Client: BER001

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7375585                      Location:                      Result(ppb): <1.00  
Client No.: E5                      \* Sample acidified to pH <2.

Lab No.: 7375586                      Location:                      Result(ppb): 1.90  
Client No.: E6                      \* Sample acidified to pH <2.

Lab No.: 7375587                      Location:                      Result(ppb): 1.10  
Client No.: E7                      \* Sample acidified to pH <2.

Lab No.: 7375588                      Location:                      Result(ppb): 1.50  
Client No.: E8                      \* Sample acidified to pH <2.

Lab No.: 7375589                      Location:                      Result(ppb): 22.4  
Client No.: E9                      \* Sample acidified to pH <2.

Lab No.: 7375590                      Location:                      Result(ppb): 13.5  
Client No.: E10                      \* Sample acidified to pH <2.

Lab No.: 7375591                      Location:                      Result(ppb): 13.8  
Client No.: E11                      \* Sample acidified to pH <2.

Lab No.: 7375592                      Location:                      Result(ppb): 3.70  
Client No.: E12                      \* Sample acidified to pH <2.

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Report No.: 654495 - Lead Water  
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Project No.:

Client: BER001

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7375593 Client No.: E13	Location: * Sample acidified to pH <2.	Result(ppb): 7.30
Lab No.: 7375594 Client No.: E14	Location: * Sample acidified to pH <2.	Result(ppb): 1.60
Lab No.: 7375595 Client No.: E16	Location: * Sample acidified to pH <2.	Result(ppb): 2.10
Lab No.: 7375596 Client No.: E17	Location: * Sample acidified to pH <2.	Result(ppb): 2.30
Lab No.: 7375597 Client No.: E18	Location: * Sample acidified to pH <2.	Result(ppb): 11.3
Lab No.: 7375598 Client No.: E20	Location: * Sample acidified to pH <2.	Result(ppb): 4.80
Lab No.: 7375599 Client No.: E21	Location: * Sample acidified to pH <2.	Result(ppb): 2.30
Lab No.: 7375600 Client No.: E22	Location: * Sample acidified to pH <2.	Result(ppb): 5.90
Lab No.: 7375601 Client No.: E23	Location: * Sample acidified to pH <2.	Result(ppb): 2.40
Lab No.: 7375602 Client No.: E24	Location: * Sample acidified to pH <2.	Result(ppb): 3.60

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

Date Received: 2/28/2022  
Date Analyzed: 03/07/2022  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Berlin Township School District  
225 Grove Ave.  
West Berlin NJ 08091

Report Date: 3/7/2022  
Report No.: 654495 - Lead Water  
Project: Lead in Water Testing  
Project No.:

Client: BER001

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7375603                      Location:                      Result(ppb): 12.8  
Client No.: E25                      \* Sample acidified to pH <2.

Lab No.: 7375604                      Location:                      Result(ppb): 3.00  
Client No.: E26                      \* Sample acidified to pH <2.

Lab No.: 7375605                      Location:                      Result(ppb): 2.30  
Client No.: E27                      \* Sample acidified to pH <2.

Lab No.: 7375606                      Location:                      Result(ppb): 1.50  
Client No.: E28                      \* Sample acidified to pH <2.

Lab No.: 7375607                      Location:                      Result(ppb): 2.50  
Client No.: E29                      \* Sample acidified to pH <2.

Lab No.: 7375608                      Location:                      Result(ppb): <1.00  
Client No.: E30                      \* Sample acidified to pH <2.


Lab No.: 7375609                      Location:                      Result(ppb): 35.5  
Client No.: E32                      \* Sample acidified to pH <2.


Lab No.: 7375610                      Location:                      Result(ppb): <1.00  
Client No.: E33                      \* Sample acidified to pH <2.

Lab No.: 7375611                      Location:                      Result(ppb): <1.00  
Client No.: E34                      \* Sample acidified to pH <2.

Lab No.: 7375612                      Location:                      Result(ppb): <1.00  
Client No.: E35                      \* Sample acidified to pH <2.

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Approved By:   
Frank E. Ehrenfeld, III  
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Report Date: 3/7/2022  
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Project: Lead in Water Testing  
Project No.:

Client: BER001

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LEAD WATER SAMPLE ANALYSIS SUMMARY

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Lab No.: 7375613  
Client No.: Blank

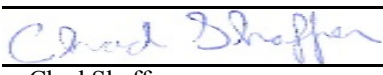
Location:  
\* Sample acidified to pH <2.


Result(ppb): <1.00

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Date Received: 2/28/2022  
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Approved By:   
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Project No.:

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## Appendix to Analytical Report:

**Customer Contact:** Chuck Pfluger  
**Analysis:** AAS-GF - ASTM D3559-08D

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:** ?wchampion@iatl.com  
**iATL Account Representative:** Kelly Klippel  
**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](http://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.

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 D3559-08D

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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**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](mailto: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.