

HEALTH & SAFETY SERVICES, Inc.

PO Box 365 • Berlin, NJ 08009 • (856) 452-1311 • info@hssenv.com
Indoor Air Quality • Asbestos & Lead Management • Site Assessments

July 26, 2022

Mrs. Theresa Doggett
Director of Facilities and Operations
Belmont Charter Network
Community Education Alliance
1301 Belmont Avenue
Suite 209
Philadelphia, PA 19104

Subject: Inquiry Charter School
1301 Belmont Avenue
Lead & copper water inspection

Dear Mrs. Doggett:

Health & Safety Services, Inc. provided the services necessary to complete potable water sampling for lead and copper levels of drinking water throughout the school district. A total of 13 water samples were collected throughout the school, NO drinking water lead or copper concentrations were above the EPA drinking water standards of 1,300 ppb (parts per billion) copper or 15 ppb lead. The table below summarized the sampling; the lead concentration limit is 15 ppb and copper is 1,300 ppb.

Copper and Lead Water Sampling:

Potable water samples were collected from sources throughout the school. Samples were collected by placing the sample container directly under the faucet, then opening the faucet to fill the container. Each water sample was sealed, labeled and transported to the laboratory for analysis. The table below details the sampling results:

Water Sampling Results:

	Copper ppb	Lead ppb
EPA Standard	1,300	15
3rd Fl Hall Fountain Ada	311	<1.00
3rd Fl Hall Fountain Standard	275	<1.00
2nd Fl Hall Fountain Ada	177	<1.00
1st Fl Hall Fountain Ada	206	<1.00
Lobby Fountain Ada	270	<1.00
Lobby Fountain Filter	260	<1.00
Cafeteria Fountain By Office	208	<1.00
Gym Fountain Ada	591	<1.00
Gym Fountain Standard	574	<1.00

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	Copper ppb	Lead ppb
EPA Standard	1,300	15
Kitchen Food Prep Sink	245	1.20
Kitchen Dish Sink	166	<1.00
Kitchen Hand Sink	269	1.70
Trailer Fountain	180	<1.00

NO drinking water lead or copper concentrations were above the EPA drinking water standards of 1,300 ppb (parts per billion) copper or 15 ppb lead.

The independent laboratory report is attached in the following pages, if any additional information is required, please contact Health & Safety Services, Inc. at your convenience.

Respectfully,
Health & Safety Services, Inc.



James J. Proctor
President

HEALTH & SAFETY SERVICES, Inc.

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Laboratory Report

Chain of Custody

– Environmental Lead –

<u>Contact Information</u>	
Client Company: Health & Safety Services, Inc.	Project Number: 22-0613-10
Office Address: PO Box 365	Project Name: <u>Belmont - 1301 Belmont Ave</u>
City, State, Zip: Berlin, NJ 08009	Primary Contact: Jim Proctor <u>Philadelphia</u>
Fax Number: _____	Office Phone: 856-452-1311
Email Address: jim@hssenv.com	Cell Phone: _____

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

Matrix/Method:

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, US EPA 200.9
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: US EPA 1311
- Other Copper

Special Instructions:

If Copper above 1,300 ppb or Lead above 15 ppb, automatically analyze 2nd draw sample from that location 5-day TAT

Turnaround Time

Preliminary Results Requested Date: _____ Verbal Email Fax

- Specific date / time
- 10 Day 5 Day 3 Day 2 Day 1 Day* 12 Hour** 6 Hour** RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization): <u>H. MCKEEVER</u>	Date: <u>6/15/2022</u> Time: <u>10 Am</u>
Received (Name / iATL): _____	Date: _____ Time: _____
Sample Login (Name / iATL): _____	Date: _____ Time: _____
Analysis(Name(s) / iATL): <u>MS</u>	Date: <u>6/20/22</u> Time: _____
QA/QC Review (Name / iATL): <u>L. L. L.</u>	Date: _____ Time: _____
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____ Time: _____

RECEIVED

JUN 15 2022

IATL - BY

Sample Log

—Environmental Lead—

Client: Belmont Charter Network Project: 1301 Belmont Philadelphia

Sampling Date/Time: 6/15/2022 7:10 Am

Client Sample #	iATL #	Location/Description	Flow Rate	Start End	Sampling time (min)	Area (ft ²) Volume (L)	Results ()
015- 01	7444134	3rd Fl Hall Fountain ADA			6/15/2022 7:15 Am		
02	7444135	3rd Fl Hall Fountain Standard			7:17 Am		
03	7444136	2nd Fl Hall Fountain ADA			7:25 Am		
04	7444137	1st Fl Hall Fountain ADA			7:30 Am		
05	7444138	Lobby Fountain ADA			7:35 Am		
06	7444139	Lobby Fountain Filter			7:36 Am		
07	7444140	Cafeteria Fountain By office			7:39 Am		
08	7444141	Gym Fountain ADA			7:40 Am		
09	7444142	Gym Fountain Standard			7:42 Am		
10	7444143	Kitchen Food Prep Sink					
11	7444144	Kitchen Dish Sink					
12	7444145	Kitchen Hand Sink					
13	7444146	Trailor Fountain					
Acid.	II 6/15/22	7:50pm			↓		

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

** = Insufficient Sample Provided to Analyze (<50mg) *** = Matrix / Substrate Interference Possible

FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

CERTIFICATE OF ANALYSIS

Client: Health & Safety Services, Inc PO Box 365 Berlin NJ 08009	Report Date: 6/21/2022 Report No.: 662917 - Lead Water Project: Belmont - 1301 Belmont Ave Philadelphia Project No.: 22-0613-10
Client: HEA198	

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7444134 Location: 3rd Fl Hall Fountain Ada Result(ppb): <1.00
Client No.: 0615-01 * Sample acidified to pH <2.

Lab No.: 7444135 Location: 3rd Fl Hall Fountain Standard Result(ppb): <1.00
Client No.: 0615-02 * Sample acidified to pH <2.

Lab No.: 7444136 Location: 2nd Fl Hall Fountain Ada Result(ppb): <1.00
Client No.: 0615-03 * Sample acidified to pH <2.

Lab No.: 7444137 Location: 1st Fl Hall Fountain Ada Result(ppb): <1.00
Client No.: 0615-04 * Sample acidified to pH <2.

Lab No.: 7444138 Location: Lobby Fountain Ada Result(ppb): <1.00
Client No.: 0615-05 * Sample acidified to pH <2.

Lab No.: 7444139 Location: Lobby Fountain Filter Result(ppb): <1.00
Client No.: 0615-06 * Sample acidified to pH <2.


Lab No.: 7444140 Location: Cafeteria Fountain By Office Result(ppb): <1.00
Client No.: 0615-07 * Sample acidified to pH <2.

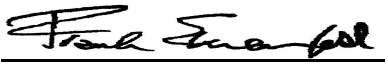
Lab No.: 7444141 Location: Gym Fountain Ada Result(ppb): <1.00
Client No.: 0615-08 * Sample acidified to pH <2.

Lab No.: 7444142 Location: Gym Fountain Standard Result(ppb): <1.00
Client No.: 0615-09 * Sample acidified to pH <2.

Lab No.: 7444143 Location: Kitchen Food Prep Sink Result(ppb): 1.20
Client No.: 0615-10 * Sample acidified to pH <2.

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

Date Received: 6/15/2022
Date Analyzed: 06/20/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Health & Safety Services, Inc
PO Box 365
Berlin NJ 08009

Report Date: 6/21/2022
Report No.: 662917 - Lead Water
Project: Belmont - 1301 Belmont Ave Philadelphia
Project No.: 22-0613-10

Client: HEA198

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7444144
Client No.: 0615-11

Location: Kitchen Dish Sink
* Sample acidified to pH <2.

Result(ppb): <1.00

Lab No.: 7444145
Client No.: 0615-12

Location: Kitchen Hand Sink
* Sample acidified to pH <2.


Result(ppb): 1.70


Lab No.: 7444146
Client No.: 0615-13

Location: Trailer Fountain
* 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: 6/15/2022
Date Analyzed: 06/20/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Health & Safety Services, Inc
PO Box 365
Berlin NJ 08009

Client: HEA198

Report Date: 6/21/2022
Report No.: 662917 - Lead Water
Project: Belmont - 1301 Belmont Ave Philadelphia
Project No.: 22-0613-10

Appendix to Analytical Report:

Customer Contact: Jim Proctor
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 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

CERTIFICATE OF ANALYSIS

Client: Health & Safety Services, Inc
PO Box 365
Berlin NJ 08009

Client: HEA198

Report Date: 6/21/2022
Report No.: 662917 - Lead Water
Project: Belmont - 1301 Belmont Ave Philadelphia
Project No.: 22-0613-10

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.

CERTIFICATE OF ANALYSIS

Client: Health & Safety Services, Inc PO Box 365 Berlin NJ 08009	Report Date: 6/21/2022 Report No.: 662917 - Copper Water Project: Belmont - 1301 Belmont Ave Philadelphia Project No.: 22-0613-10
Client: HEA198	

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7444134 Location: 3rd Fl Hall Fountain Ada Result(ppb): 311
Client No.: 0615-01 * Sample acidified to pH <2.

Lab No.: 7444135 Location: 3rd Fl Hall Fountain Standard Result(ppb): 275
Client No.: 0615-02 * Sample acidified to pH <2.

Lab No.: 7444136 Location: 2nd Fl Hall Fountain Ada Result(ppb): 177
Client No.: 0615-03 * Sample acidified to pH <2.

Lab No.: 7444137 Location: 1st Fl Hall Fountain Ada Result(ppb): 206
Client No.: 0615-04 * Sample acidified to pH <2.

Lab No.: 7444138 Location: Lobby Fountain Ada Result(ppb): 270
Client No.: 0615-05 * Sample acidified to pH <2.

Lab No.: 7444139 Location: Lobby Fountain Filter Result(ppb): 260
Client No.: 0615-06 * Sample acidified to pH <2.

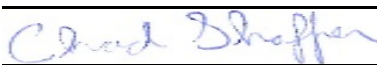
Lab No.: 7444140 Location: Cafeteria Fountain By Office Result(ppb): 208
Client No.: 0615-07 * Sample acidified to pH <2.

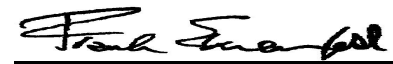
Lab No.: 7444141 Location: Gym Fountain Ada Result(ppb): 591
Client No.: 0615-08 * Sample acidified to pH <2.

Lab No.: 7444142 Location: Gym Fountain Standard Result(ppb): 574
Client No.: 0615-09 * Sample acidified to pH <2.

Lab No.: 7444143 Location: Kitchen Food Prep Sink Result(ppb): 245
Client No.: 0615-10 * Sample acidified to pH <2.

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

Date Received: 6/15/2022
Date Analyzed: 06/21/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Health & Safety Services, Inc
PO Box 365
Berlin NJ 08009

Report Date: 6/21/2022
Report No.: 662917 - Copper Water
Project: Belmont - 1301 Belmont Ave Philadelphia
Project No.: 22-0613-10

Client: HEA198

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7444144
Client No.: 0615-11

Location: Kitchen Dish Sink
* Sample acidified to pH <2.

Result(ppb): 166

Lab No.: 7444145
Client No.: 0615-12

Location: Kitchen Hand Sink
* Sample acidified to pH <2.


Result(ppb): 269


Lab No.: 7444146
Client No.: 0615-13

Location: Trailer Fountain
* Sample acidified to pH <2.

Result(ppb): 180

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

Date Received: 6/15/2022
Date Analyzed: 06/21/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Health & Safety Services, Inc
PO Box 365
Berlin NJ 08009

Report Date: 6/21/2022
Report No.: 662917 - Copper Water
Project: Belmont - 1301 Belmont Ave Philadelphia
Project No.: 22-0613-10

Client: HEA198

Appendix to Analytical Report:

Customer Contact: Jim Proctor
Analysis: AAS-FL- ASTM D1688-12(A)

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.

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iATL Account Representative: Kelly Klippel
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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.

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Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:

- ASTM D1688-12(A)

Accreditations:

- NYS-DOH No. 11021

- NJDEP No. 03863

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

- USEPA 200.9 Cu, AAS-FL, RL <40 ppb/sample

Regulatory limit for copper in drinking water is 1300 parts per billion (or 1.3 ppm) 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 = 20 PPB Reporting Limit (RL) = 40 PPB

Disclaimers / Qualifiers:

CERTIFICATE OF ANALYSIS

Client: Health & Safety Services, Inc
PO Box 365
Berlin NJ 08009

Report Date: 6/21/2022
Report No.: 662917 - Copper Water
Project: Belmont - 1301 Belmont Ave Philadelphia
Project No.: 22-0613-10

Client: HEA198

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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 D1668-12(A) 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.