

May 31, 2023

Mr. Lawrence Threadgill
Universal Companies
1427 Catharine Street, 4th Floor
Philadelphia, Pennsylvania 19146

Re: Summary Report for Lead in Water Sampling
Universal Companies – Universal Audenried Charter School
Philadelphia, Pennsylvania
Synertech Project No. 704-002-1

Dear Mr. Threadgill:

I. Executive Summary

At your request, on April 12, 2023, *Synertech Environmental, LLC* performed lead in water sampling at the Universal Alcorn Charter School, which is located at 3301 Tasker Street, Philadelphia, Pennsylvania. The water sampling was conducted as part of an ongoing lead in drinking water testing program to evaluate, document, and ensure an acceptable water quality for all potable drinking water outlets throughout the 9th - 12th grade charter school building. The project included the collection of samples for analysis for lead in drinking water. This report is a summary of the sampling protocols and testing data.

II. Methodologies and Acceptable Standards

Synertech Environmental, LLC performed sampling for the parameters listed below. The Analysis was performed by the National Lead Laboratory Accreditation Program (NLLAP) accredited laboratory *IATL* located in Mt. Laurel, New Jersey. All samples were collected via the *American Society for Testing and Materials* (ASTM) sampling method D3559-08D and analyzed by Atomic Absorption Spectroscopy (AAS)-Graphite Furnace (GF).

A total of sixty-six (66) samples were collected from kitchen sinks, bathroom and hallway sinks, classroom sinks, water fountains and bottle filler outlets throughout the building. The sampling consisted of a “first draw” and “flush” sample collected at each drinking water outlet and a first draw sample collected from filtered bottle filler outlet locations. The outlets were not utilized for at least 6 hours prior to sample collection as per the EPA 40 CFR Part 141 Subpart I (lead and copper rule) sampling guidelines.

Laws and Regulations

There are no state or federal laws requiring testing of drinking water in schools, except for schools that have their own water supply and are thus regulated under the Safe Drinking Water Act (SDWA). The vast majority of public water suppliers do not include schools in their sampling plans because regulations (specifically the Lead and Copper Rule) require sampling of single-family dwellings. **However, Section A-703.2; B. of the City of Philadelphia Code does require the following:**

- ✧ “The Health Department or a testing agency certified by the Pennsylvania Department of Environmental Protection has certified, within the previous five years, that the building is in substantial compliance with applicable water quality requirements of the Board of Health, provided that in no event shall applicable water quality requirements be deemed to permit lead in water at an outlet such as a sink or water fountain that is in service at 10 ppb or more. Any water outlet determined to exceed any such water quality requirements shall be taken out of service within 24 hours of notification of the relevant test. The owner of the educational occupancy shall post the results of the most recent water quality testing at each educational occupancy to a generally available website within ten days of receipt of the results.”

The Board of Health regulation describes your responsibility for testing your water outlets. Results of the testing for each potable water outlet in your facility should be reported to the health department by email to WaterLeadTesting@phila.gov. The submission of results should include the following information:

1. A cover letter that identifies the name, address, and contact information for your facility.
2. A laboratory report that shows the date of sampling, the name of the laboratory performing the analysis, and the lead result for each potable (drinkable) water outlet.
3. If any lead results are reported to be equal to or exceeding the action level of 10 parts per billion (ug/L), you must discontinue use of the outlet immediately (within 24 hours). Report your response action(s) associated with an outlet with an elevated lead level in the cover letter. Any outlet with an elevated lead level may be put back into service only after corrective action has been taken and a repeat lead test has shown the level to be less than 10 parts per billion(ug/L).

In addition to the requirements by the City of Philadelphia, the EPA recommends that schools implement programs for reducing lead in drinking water as part of the school’s overall plan for reducing environmental threats. Safe and healthy school environments foster healthy children, and may improve students’ general performance.

Although drinking water often incorporates low levels of some contaminants as it flows in rivers and collects in aquifers, these materials usually are not detected at harmful levels. Public water suppliers must monitor their water to make sure it complies with science-based public health standards. The EPA sets these maximum allowable levels of contaminants in drinking water under The Safe Drinking Water Act (SDWA).

The health effects language mentioned in this report is not intended to catalog all possible health effects for the following drinking water contaminant. Rather, it is intended to inform consumers of some of the possible health effects associated with drinking water contaminants when the EPA rule and regulations was finalized. A medical doctor is to be consulted if further information is required.

National Primary Drinking Water Regulations

The U.S. Environmental Protection Agency (EPA) has established National Primary Drinking Water Regulations that set mandatory water quality standards for drinking water contaminants. These are enforceable standards called Maximum Contaminant Levels (MCL), which are established to protect the public against consumption of drinking water contaminants that present a risk to human health. An MCL is the maximum allowable amount of a contaminant in drinking water which is delivered to the consumer. MCLs are set as close to the health goals as possible, considering cost, benefits and the ability of public water systems to detect and remove contaminants using suitable treatment technologies. The EPA has set this level of protection based on the best available science to prevent potential health problems. The following paragraphs contain MCLs and brief health effects of those reported to be associated with the samples collected at this time.

- ✧ *Lead*, a metal found in natural deposits, is commonly used in household plumbing materials and water service lines. Most lead contamination occurs at some point in the water delivery system. Materials in the water delivery system may include service connections, pipes, brass fixtures, and solder. If subsequent samples yield elevated levels of lead action may require the replacement of water delivery parts with ‘non-leaded’ parts. Homes built before 1986 are more likely to have lead pipes, fixtures and solder. However, new homes are also at risk: even legally “lead-free” plumbing may contain up to eight (8) percent lead. The most common problem is with brass or chrome-plated brass faucets and fixtures which can leach significant amounts of lead into the water, especially hot water.

There is no safe level of lead. Lead toxicity affects the nervous system, both in adults and children. Long-term exposure can result in decreased performance in cognitive ability and functions of the nervous system. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people and can cause anemia. Exposure to high lead levels can severely damage the brain and kidneys in adults or children and ultimately cause death. Lead does not noticeably alter the color, taste, or odor of water. The effects of low-level toxicity of lead in water may not be obvious. There may be no symptoms, or the symptoms may be mistaken as flu or other illness. Many domestic water treatment systems remove the majority of lead from drinking water.

The Action Level (AL) of Lead (Pb) in accordance with the City of Philadelphia Code “Action Level” is **10 micrograms per liter (µg/L), or 10 ppb** while the Environmental Protection Agency (EPA) drinking water standard is 15 micrograms per liter (µg/L). The Action Level is defined as the concentration of lead in water that may trigger requirements for corrosion control, source water treatment, lead service line replacement, and public education. Compliance with an action level is based on multiple samples.

III. Sampling Results

The following tables outline the sample results for each outlet where water samples were collected during this project. All samples that were reported to be **above** the Action level of 10ppb are listed in **bold** in the table below.

Lead in Drinking Water						
Sample #	Location	Outlet Type	Draw	Sampling Method	CoP Action Level (AL)	Results (ppb)
01	Kitchen Sink - 1st Fl First	S	First	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	1.10
02	Kitchen Sink - 1st Fl Flush	S	Flush			<1.00
03	Kitchen Sink 2 - 1st Fl First	S	First			1.30
04	Kitchen Sink 2 - 1st Fl Flush	S	Flush			<1.00
05	Women's Change Rm - 1st Fl First	S	First			<1.00
06	Women's Change Rm - 1st Fl Flush	S	Flush			<1.00
07	Men's Change Rm - 1st Fl First	S	First			3.40
08	Men's Change Rm - 1st Fl Flush	S	Flush			<1.00
09	115 Kitchen Sink First	S	First			<1.00
10	115 Kitchen Sink Flush	S	Flush			<1.00
11	115 Bath Sink First	S	First			<1.00
12	115 Bath Sink Flush	S	Flush			<1.00
13	C110 Men's Dress Rm First	S	First			60.5
14	C110 Men's Dress Rm Flush	S	Flush			3.90
15	C109 Women's Dress Rm First	S	First			31.5
16	C109 Women's Dress Rm Flush	S	Flush			2.40
17	Fountain O/S Auditorium First	WF	First			<1.00
18	Fountain O/S Auditorium Flush	WF	Flush			<1.00
19	Girl's O/S Auditorium First	S	First			<1.00

WF = Water Fountain S = Sink Outlet HS = Hydration Station/Bottle Filler ICP – MS = Inductively coupled plasma mass spectrometry

Lead in Drinking Water						
Sample #	Location	Outlet Type	Draw	Sampling Method	CoP Action Level (AL)	Results (ppb)
20	Girl's O/S Auditorium Flush	S	Flush	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<1.00
21	Boy's O/S Auditorium First	S	First			<1.00
22	Boy's O/S Auditorium Flush	S	Flush			<1.00
23	2nd Fl Kitchen Sink At Slicer	S	First			3.50
24	2nd Fl Kitchen Sink At Slicer	S	Flush			<1.00
25	2nd Fl Kitchen Sink By Windows	S	First			<1.00
26	2nd Fl Kitchen Sink By Windows	S	Flush			<1.00
27	2nd Fl Kitchen Sink By Entry	S	First			<1.00
28	2nd Fl Kitchen Sink By Entry	S	Flush			<1.00
29	2nd Fl Kitchen Middle Sink Baking Class	S	First			1.10
30	2nd Fl Kitchen Middle Sink Baking Class	S	Flush			<1.00
31	2nd Fl Kitchen Pot Fill Outlet First	S	First			1.80
32	2nd Fl Kitchen Pot Fill Outlet Flush	S	Flush			<1.00
33	Rm 205 Science Sink - Front Of Rm First	S	First			29.2
34	Rm 205 Science Sink - Front Of Rm Flush	S	Flush			3.30
35	Rm 207 Science Front Of Room First	S	First			10.5
36	Rm 207 Science Front Of Room Flush	S	Flush			1.30
37	Fountain O/S Boys And Girls First	WF	First			<1.00
38	Fountain O/S Boys And Girls Flush	WF	Flush			<1.00
39	2nd Fl Girls Low Sink - Hall Bath First	S	First			<1.00
40	2nd Fl Girls Low Sink - Hall Bath Flush	S	Flush			<1.00
41	2nd Fl Boy's Hall Bath First	S	First			<1.00
42	2nd Fl Boy's Hall Bath Flush	S	Flush			<1.00
43	2nd Fl Nurse Bath First	S	First			1.10
44	2nd Fl Nurse Bath Flush	S	Flush			<1.00
45	A201 Art First	S	First			2.70
46	A201 Art Flush	S	Flush			4.80
47	D210 Adj 214 First	S	First			69.0
48	D210 Adj 214 Flush	S	Flush			2.80
49	Fountain Across B202 First	WF	First			<1.00
50	Fountain Across B202 Flush	WF	Flush			<1.00
51	Bottle Filler O/S B202 First	HS	First			<1.00
52	203 Art - Left First	S	First			4.40
53	203 Art - Left Flush	S	Flush			<1.00
54	203 Art Middle First	S	First			9.50
55	203 Art Middle Flush	S	Flush			1.50
56	203 Art Room Right First	S	First			6.60
57	203 Art Room Right Flush	S	Flush			<1.00
58	Across From 202 Bottle Fill First	HS	First			<1.00
59	B305 - Front Of Rm First	S	First			28.0
60	B305 - Front Of Rm Flush	S	Flush			6.90
61	Unisex Bath Hall - 3rd Fl First	S	First			<1.00
62	C208 First	S	First			24.8
63	C208 Flush	S	Flush			17.0
64	Boy's 302 First	S	First			<1.00
65	Girl's 302 First	S	First			<1.00
66	Bottle Filler O/S 302 First	HS	First			<1.00

WF = Water Fountain S = Sink Outlet HS = Hydration Station/Bottle Filler ICP – MS = Inductively coupled plasma mass spectrometry

IV. Recommendations

A. Outlets with Reported lead levels at or Above the Action Level

The outlets that had lead concentrations at or above the City of Philadelphia Action Level for school buildings (samples 13, 15, 33, 35, 47, 59, 62, 63, 40, 41, 42, 51, 53, 54, 56, 57, 62) are **required to be taken out of service until corrective actions have been taken and re-testing shows the lead concentration to be less than 10 ug/L**. The following corrective actions are recommended.

1. Post signs at each water outlet in the rooms where elevated samples were reported in the table above. The sign shall indicate that each outlet in the rooms/areas are “not for drinking”. In addition, **Synertech also recommends posting such signs at each water outlet throughout the building that are not intended for drinking (i.e., bathroom sinks, hand wash sinks, art room sinks and science room sinks).**
2. Consult a licensed and insured plumbing contractor to determine the source of the elevated sample results. Potential sources of lead contamination are as follows:
 - ii. Water service lines;
 - iii. Lead soldered joints and fittings;
 - iv. Lead faucets/fixtures.

B. Outlets not sampled and outlets with reported lead levels but below the Action Level

Since there is no “safe” level of lead in drinking water, *Synertech Environmental* recommends flushing of drinking water or water outlets used for cooking where the concentrations of lead were reported at any concentration (**any result >1.0 ppb in the table above but less than 10ppb**) to be flushed for at least 30 seconds prior to drinking or using the water for cooking. The more time water has been sitting in the pipes, the more lead it is likely to contain. Anytime the water in a particular faucet has not been used for six hours or longer, “flush” your cold-water pipes by running the water until it becomes as cold as it will get.

Synertech Environmental, LLC is pleased to have had the opportunity to provide Universal Companies with our professional environmental services. If you have any questions or would like to discuss this matter further, please do not hesitate to call at 215-755-2305.

Prepared by:

Synertech Environmental, LLC



John Fiorelli, CIE

Pennsylvania Lead Risk Assessor #004799

Attachment #1

**Laboratory Certificates of Analysis
&
Chain of Custody Forms**

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC
228 Moore Street
Philadelphia PA 19148


Client: SYN177


Report Date: 4/27/2023
Report No.: 681754 - Lead Water
Project: Universal Charter Schools - Audenried
Project No.: 704-002

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7601332 Client No.:01	Location:Kitchen Sink - 1st Fl First * Sample acidified to pH <2.	Result(ppb):1.10
Lab No.:7601333 Client No.:02	Location:Kitchen Sink - 1st Fl Flush * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7601334 Client No.:03	Location:Kitchen Sink 2 - 1st Fl First * Sample acidified to pH <2.	Result(ppb):1.30
Lab No.:7601335 Client No.:04	Location:Kitchen Sink 2 - 1st Fl Flush * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7601336 Client No.:05	Location:Women's Change Rm - 1st Fl First * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7601337 Client No.:06	Location:Women's Change Rm - 1st Fl Flush * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7601338 Client No.:07	Location:Men's Change Rm - 1st Fl First * Sample acidified to pH <2.	Result(ppb):3.40
Lab No.:7601339 Client No.:08	Location:Men's Change Rm - 1st Fl Flush * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7601340 Client No.:09	Location:115 Kitchen Sink First * Sample acidified to pH <2.	Result(ppb):1.00
Lab No.:7601341 Client No.:10	Location:115 Kitchen Sink Flush * 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: 4/14/2023
Date Analyzed: 04/27/2023
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC
228 Moore Street
Philadelphia PA 19148

Report Date: 4/27/2023
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Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7601342 Location: 115 Bath Sink First Result(ppb): <1.00
Client No.: 11 * Sample acidified to pH <2.

Lab No.: 7601343 Location: 115 Bath Sink Flush Result(ppb): <1.00
Client No.: 12 * Sample acidified to pH <2.

Lab No.: 7601344 Location: C110 Men's Dress Rm First Result(ppb): 60.5
Client No.: 13 * Sample acidified to pH <2.

Lab No.: 7601345 Location: C110 Men's Dress Rm Flush Result(ppb): 3.90
Client No.: 14 * Sample acidified to pH <2.

Lab No.: 7601346 Location: C109 Women's Dress Rm First Result(ppb): 31.5
Client No.: 15 * Sample acidified to pH <2.

Lab No.: 7601347 Location: C109 Women's Dress Rm Flush Result(ppb): 2.40
Client No.: 16 * Sample acidified to pH <2.


Lab No.: 7601348 Location: Fountain O/S Auditorium First Result(ppb): <1.00
Client No.: 17 * Sample acidified to pH <2.


Lab No.: 7601349 Location: Fountain O/S Auditorium Flush Result(ppb): <1.00
Client No.: 18 * Sample acidified to pH <2.

Lab No.: 7601350 Location: Girl's O/S Auditorium First Result(ppb): <1.00
Client No.: 19 * Sample acidified to pH <2.

Lab No.: 7601351 Location: Girl's O/S Auditorium Flush Result(ppb): <1.00
Client No.: 20 * Sample acidified to pH <2.

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

Date Received: 4/14/2023
Date Analyzed: 04/27/2023
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7601352 **Location:** Boy's O/S Auditorium First **Result(ppb):** <1.00
Client No.: 21 * Sample acidified to pH <2.

Lab No.: 7601353 **Location:** Boy's O/S Auditorium Flush **Result(ppb):** <1.00
Client No.: 22 * Sample acidified to pH <2.

Lab No.: 7601354 **Location:** 2nd Fl Kitchen Sink At Slicer **Result(ppb):** 3.50
Client No.: 23 * Sample acidified to pH <2.

Lab No.: 7601355 **Location:** 2nd Fl Kitchen Sink At Slicer **Result(ppb):** <1.00
Client No.: 24 * Sample acidified to pH <2.

Lab No.: 7601356 **Location:** 2nd Fl Kitchen Sink By Windows **Result(ppb):** <1.00
Client No.: 25 * Sample acidified to pH <2.

Lab No.: 7601357 **Location:** 2nd Fl Kitchen Sink By Windows **Result(ppb):** <1.00
Client No.: 26 * Sample acidified to pH <2.


Lab No.: 7601358 **Location:** 2nd Fl Kitchen Sink By Entry **Result(ppb):** <1.00
Client No.: 27 * Sample acidified to pH <2.

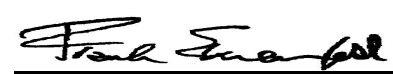
Lab No.: 7601359 **Location:** 2nd Fl Kitchen Sink By Entry **Result(ppb):** <1.00
Client No.: 28 * Sample acidified to pH <2.

Lab No.: 7601360 **Location:** 2nd Fl Kitchen Middle Sink Baking Class **Result(ppb):** 1.10
Client No.: 29 * Sample acidified to pH <2.

Lab No.: 7601361 **Location:** 2nd Fl Kitchen Middle Sink Baking Class **Result(ppb):** <1.00
Client No.: 30 * Sample acidified to pH <2.

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

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Signature: 
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Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 4/27/2023
Report No.: 681754 - Lead Water
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7601362 Client No.:31	Location:2nd Fl Kitchen Pot Fill Outlet First * Sample acidified to pH <2.	Result(ppb):1.80
Lab No.:7601363 Client No.:32	Location:2nd Fl Kitchen Pot Fill Outlet Flush * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7601364 Client No.:33	Location:Rm 205 Science Sink - Front Of Rm First * Sample acidified to pH <2.	Result(ppb):29.2
Lab No.:7601365 Client No.:34	Location:Rm 205 Science Sink - Front Of Rm Flush * Sample acidified to pH <2.	Result(ppb):3.30
Lab No.:7601366 Client No.:35	Location:Rm 207 Science Front Of Room First * Sample acidified to pH <2.	Result(ppb):10.5
Lab No.:7601367 Client No.:36	Location:Rm 207 Science Front Of Room Flush * Sample acidified to pH <2.	Result(ppb):1.30
Lab No.:7601368 Client No.:37	Location:Fountain O/S Boys And Girls First * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7601369 Client No.:38	Location:Fountain O/S Boys And Girls Flush * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7601370 Client No.:39	Location:2nd Fl Girls Low Sink - Hall Bath First * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7601371 Client No.:40	Location:2nd Fl Girls Low Sink - Hall Bath Flush * Sample acidified to pH <2.	Result(ppb):<1.00

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7601372 Location: 2nd Fl Boy's Hall Bath First Result(ppb): <1.00
Client No.: 41 * Sample acidified to pH <2.

Lab No.: 7601373 Location: 2nd Fl Boy's Hall Bath Flush Result(ppb): <1.00
Client No.: 42 * Sample acidified to pH <2.

Lab No.: 7601374 Location: 2nd Fl Nurse Bath First Result(ppb): 1.10
Client No.: 43 * Sample acidified to pH <2.

Lab No.: 7601375 Location: 2nd Fl Nurse Bath Flush Result(ppb): <1.00
Client No.: 44 * Sample acidified to pH <2.

Lab No.: 7601376 Location: A201 Art First Result(ppb): 2.70
Client No.: 45 * Sample acidified to pH <2.

Lab No.: 7601377 Location: A201 Art Flush Result(ppb): 4.80
Client No.: 46 * Sample acidified to pH <2.


Lab No.: 7601378 Location: D210 Adj 214 First Result(ppb): 69.0
Client No.: 47 * Sample acidified to pH <2.

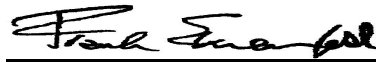
Lab No.: 7601379 Location: D210 Adj 214 Flush Result(ppb): 2.80
Client No.: 48 * Sample acidified to pH <2.

Lab No.: 7601380 Location: Fountain Across B202 First Result(ppb): <1.00
Client No.: 49 * Sample acidified to pH <2.

Lab No.: 7601381 Location: Fountain Across B202 Flush Result(ppb): <1.00
Client No.: 50 * Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7601382 Location: Bottle Filler O/S B202 First Result(ppb): <1.00
Client No.: 51 * Sample acidified to pH <2.

Lab No.: 7601383 Location: 203 Art - Left First Result(ppb): 4.40
Client No.: 52 * Sample acidified to pH <2.

Lab No.: 7601384 Location: 203 Art - Left Flush Result(ppb): <1.00
Client No.: 53 * Sample acidified to pH <2.

Lab No.: 7601385 Location: 203 Art Middle First Result(ppb): 9.50
Client No.: 54 * Sample acidified to pH <2.

Lab No.: 7601386 Location: 203 Art Middle Flush Result(ppb): 1.50
Client No.: 55 * Sample acidified to pH <2.

Lab No.: 7601387 Location: 203 Art Room Right First Result(ppb): 6.60
Client No.: 56 * Sample acidified to pH <2.


Lab No.: 7601388 Location: 203 Art Room Right Flush Result(ppb): <1.00
Client No.: 57 * Sample acidified to pH <2.

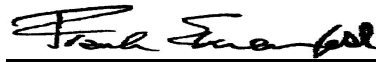
Lab No.: 7601389 Location: Across From 202 Bottle Fill First Result(ppb): <1.00
Client No.: 58 * Sample acidified to pH <2.

Lab No.: 7601390 Location: B305 - Front Of Rm First Result(ppb): 28.0
Client No.: 59 * Sample acidified to pH <2.

Lab No.: 7601391 Location: B305 - Front Of Rm Flush Result(ppb): 6.90
Client No.: 60 * Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7601392 Location: Unisex Bath Hall - 3rd Fl First Result(ppb): <1.00
Client No.: 61 * Sample acidified to pH <2.

Lab No.: 7601393 Location: C208 First Result(ppb): 24.8
Client No.: 62 * Sample acidified to pH <2.


Lab No.: 7601394 Location: C208 Flush Result(ppb): 17.0
Client No.: 63 * Sample acidified to pH <2.

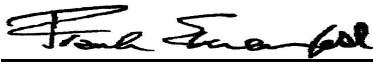
Lab No.: 7601395 Location: Boy's 302 First Result(ppb): <1.00
Client No.: 64 * Sample acidified to pH <2.

Lab No.: 7601396 Location: Girl's 302 First Result(ppb): <1.00
Client No.: 65 * Sample acidified to pH <2.

Lab No.: 7601397 Location: Bottle Filler O/S 302 First Result(ppb): <1.00
Client No.: 66 * Sample acidified to pH <2.

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

Date Received: 4/14/2023
Date Analyzed: 04/27/2023
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 4/27/2023
Report No.: 681754 - Lead Water
Project: Universal Charter Schools - Audenried
Project No.: 704-002

Appendix to Analytical Report:

Customer Contact:

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: 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.

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: Synertech Environmental LLC
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 4/27/2023
Report No.: 681754 - Lead Water
Project: Universal Charter Schools - Audenried
Project No.: 704-002

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.



SYNERTECH

ENVIRONMENTAL LLC

228 Moore Street
Philadelphia, PA 19148
Phone 215-755-2305
Fax 215-755-2405
www.qosyntech.com

Chain of Custody Transmittal Potable Drinking Water Samples via US EPA

*Pb only.
(no copper)*

Project Name: Universal Charter Schools - ~~Area~~

Project No: 704-002

State Sampled: Pennsylvania

Laboratory: IATL

Analysis Type: Lead in Drinking Water by ICP-MS via 200.8/6020A

TAT: 1-Week TAT

Samples Collected By: J. Speck

Date/Time: 4/11/23

Transmitted to Lab By: [Signature]

Date/Time: 4/13/23

Received in Lab By: [Signature]

Date/Time: 4/27/23

Samples Analyzed By: MS

Date/Time: 4/27/23

SAMPLE #	LOCATION	REMARKS
01	KITCHEN SINK - 1 ST FLOOR	7601332 FIRST
02	KITCHEN SINK - 1 ST FL.	7601333 flush
03	KITCHEN SINK 2 - 1 ST FL.	7601334 FIRST
04	KITCHEN SINK 2 - 1 ST FL	7601335 flush
05	WOMEN'S CHANGE RM - 1 ST FL	7601336 FIRST
06	↓ ↓	7601337 flush.
07	MEN'S CHANGE RM - 1 ST FL	7601338 FIRST
08	↓ ↓	7601339 flush.
09	115 KITCHEN SINK	7601340 FIRST
10	↓ ↓	7601341 flush.
11	115 BATH SINK	7601342 FIRST
12	↓ ↓	7601343 flush.
13	C110 MEN'S DRESS RM	7601344 FIRST
14	↓ ↓	7601345 flush.
15	C109 WOMEN'S DRESS RM	7601346 FIRST
16	↓ ↓	7601347 flush.
17	FOUNTAIN O/S AUDITORIUM	7601348 FIRST
18	↓ ↓	7601349 flush
19	GIRL'S O/S AUDITORIUM	7601350 FIRST
20	↓ ↓	7601351 flush.
21	BOY'S O/S AUDITORIUM	7601352 FIRST
22	↓ ↓	7601353 flush



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Chain of Custody Transmittal Potable Drinking Water Samples via US EPA

Pb only
(no copper)

Project Name: Universal Charter Schools - ~~Academy~~

Project No: 704-002

State Sampled: Pennsylvania

Laboratory: IATL

Analysis Type: Lead in Drinking Water by ICP-MS via 200.8/6020A

TAT: 1-Week TAT

Samples Collected By: T. J. Miller

Date/Time: 4/11/23

Transmitted to Lab By: T. J. Miller

Date/Time: 4/13/23

Received in Lab By: T. J. Miller

Date/Time:

Samples Analyzed By:

Date/Time:

SAMPLE #	LOCATION	REMARKS
23	2nd fl Kitchen sink	7601354 AT SILEN
24	↓	7601355 ↓
25	2nd fl Kitchen sink	7601356 BY windows
26	↓	7601357 ↓
27	2nd fl Kitchen sink	7601358 BY ENTRY
28	↓	7601359 ↓
29	2nd fl Kitchen window sink	7601360 Baking class
30	↓	7601361 ↓
31	2nd fl Kitchen pot fill outlet	7601362 FIRST
32	↓	7601363 Flush.
33	Rm 205 Science Sink - Front	7601364 FIRST
34	↓	7601365 Flush
35	Rm 207 Science Front of Room	7601366 FIRST
36	↓	7601367 Flush.
37	Fountain of Boys + Girls	7601368 FIRST
38	↓	7601369 Flush.
39	2nd fl Girls low sink - Hallway	7601370 FIRST
40	↓	7601371 Flush.
41	2nd fl Boys Hallway	7601372 FIRST
42	↓	7601373 Flush.
43	2nd fl Nurse Bath	7601374 FIRST
44	↓	7601375 Flush



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Chain of Custody Transmittal

Lead In Water Samples

PH ONLY
(no copper)

Project Name: UNIVERSAL AUDIENCE

Project No: 704002

Laboratory: EAH

Analysis: SLA DRINK PB

Turnaround Time ☒ 24 hours

☐ 48 hours

1 WEEK

Samples Collected By: _____ Date/Time _____

Transmitted to Lab By: _____ Date/Time _____

Received in Lab By: _____ Date/Time _____

Samples Analyzed By: _____ Date/Time _____

SAMPLE #	LOCATION	AMOUNT	REMARKS
45	A201 ART	7601376	FIRST
46	↓ ↓	7601377	Flush.
47	A210 ART 214	7601378	FIRST
48	↓ ↓	7601379	Flush.
49	FOUNTAIN Across B202	7601380	FIRST
50	↓ ↓	7601381	Flush.
51	BOTTLE FILLER OPS B202	7601382	FIRST
52	203 ART-LEFT	7601383	FIRST
53	↓ ↓	7601384	Flush.
54	203 ART middle	7601385	FIRST
55	↓ ↓	7601386	Flush.



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Chain of Custody Transmittal

Lead ~~XXXX~~ Samples

By ~~XXXX~~ Analysis

DRINKING WATER EPA Pb ICP.

Project Name: UNIVERSAL AUDIENCE

Project No. 704-002

Laboratory: ITAL

Turnaround Time:

☐ 24 hours

☐ 48 hours

☐ 72 hours

☒ Other

1 WEEK

X ASTM/EPA APPROVED GHOST WIPES USED

Samples Collected By: T. Horvath

Date/Time 4/11/23

Transmitted to Lab By: [Signature]

Date/Time 4/13/23

Received in Lab By: [Signature]

Date/Time _____

Samples Analyzed By: _____

Date/Time _____

Sample #	Location	Area (sq. inches)	Remarks
56	203 ART Rm RIGHT	7601387	FIRST
57	↓	7601388	FLUSH
58	ACROSS FROM 202 BOTTLE FILL	7601389	FIRST
59	B305 - FRONT OF Rm	7601390	FIRST
60	↓	7601391	FLUSH
61	UNISEX BATH HALL-3RD FL	7601392	FIRST
62	C208	7601393	FIRST
63	C208	7601394	FLUSH
64	BOY'S 302	7601395	FIRST
65	GIRL'S 302	7601396	FIRST
66	BOTTLE FILLER o/c 302	7601397	FIRST
	Acidified w/		
	4/26/23 20:40		