

May 09, 2024

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

**Re: Summary Report for Lead in Water Sampling  
Universal Companies – Universal Audenreid Charter School  
Philadelphia, Pennsylvania  
Synertech Project No. 704-003-02**

Dear Mr. Threadgill:

## **I. Executive Summary**

At your request, on April 11, 2024, *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 9<sup>th</sup> - 12<sup>th</sup> 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 eighty-two (82) samples were collected from forty-one (41) 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 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 [WfilterLeadTest11g@pltila.gov](mailto:WfilterLeadTest11g@pltila.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-lead’ 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 table outlines sample results for each outlet sampled during this project.

Lead in Drinking Water						
Sample #	Location	Outlet Type	Draw	Sampling Method	CoP Action Level (AL)	Results (ppb)
<b>01 P</b>	<b>Kitchen Sink #1 – First Floor</b>	<b>S</b>	<b>First</b>	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<b>6.50</b>
01 F	Kitchen Sink #1 – First Floor	S	Flush			<1.00
<b>02 P</b>	<b>Kitchen Sink #2 – First Floor</b>	<b>S</b>	<b>First</b>			<b>3.40</b>
02 F	Kitchen Sink #2 – First Floor	S	Flush			<1.00
<b>03 P</b>	<b>Kitchen Sink #3 – First Floor</b>	<b>S</b>	<b>First</b>			<b>14.4</b>
03 F	Kitchen Sink #3 – First Floor	S	Flush			<1.00
<b>04 P</b>	<b>Kitchen Sink #4 – First Floor</b>	<b>S</b>	<b>First</b>			<b>27.6</b>
04 F	Kitchen Sink #4 – First Floor	S	Flush			<1.00
<b>05 P</b>	<b>Kitchen Sink #5 – First Floor</b>	<b>S</b>	<b>First</b>			<b>7.00</b>
05 F	Kitchen Sink #5 – First Floor	S	Flush			<1.00
<b>06 P</b>	<b>Kitchen Sink #6 – First Floor</b>	<b>S</b>	<b>First</b>			<b>2.90</b>
<b>06 F</b>	<b>Kitchen Sink #6 – First Floor</b>	<b>S</b>	<b>Flush</b>			<b>12.7</b>
<b>07 P</b>	<b>Kitchen Sink #7 – First Floor</b>	<b>S</b>	<b>First</b>			<b>8.90</b>
<b>07 F</b>	<b>Kitchen Sink #7 – First Floor</b>	<b>S</b>	<b>Flush</b>			<b>1.50</b>
<b>08 P</b>	<b>Men’s Changing Room Sink – First Floor</b>	<b>S</b>	<b>First</b>			<b>1.70</b>
<b>08 F</b>	<b>Men’s Changing Room Sink – First Floor</b>	<b>S</b>	<b>Flush</b>			<b>3.80</b>
<p><b>WF</b> = Water Fountain <b>S</b> = Sink Outlet <b>HS</b> = Hydration Station/Bottle Filler <b>ICP – MS</b> = Inductively coupled plasma mass spectrometry                      Results reported in <b>RED</b> are at or above the Action Level and should be <b>taken out of service immediately</b>.                      Results reported in <b>BOLD</b> are below the Action Level but not void of lead content and should be flushed daily.</p>						

Summary Report for Lead in Water Sampling  
 Universal Companies – Universal Audenreid Charter School  
 Philadelphia, Pennsylvania  
 Synertech Project No. 704-003-02

Lead in Drinking Water								
Sample #	Location	Outlet Type	Draw	Sampling Method	CoP Action Level (AL)	Results (ppb)		
<b>09 P</b>	<b>Women's Change Room Sink – First Floor</b>	<b>S</b>	<b>First</b>	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<b>7.40</b>		
09 F	Women's Change Room Sink – First Floor	S	Flush			<1.00		
10 P	Room 115 Restroom Sink	S	First			<1.00		
10 F	Room 115 Restroom Sink	S	Flush			<1.00		
11 P	Room 115 Kitchen Sink	S	First			<1.00		
11 F	Room 115 Kitchen Sink	S	Flush			<1.00		
<b>12 P</b>	<b>C110 Men's Dress Room – First Floor</b>	<b>S</b>	<b>First</b>					<b>14.2</b>
12 F	C110 Men's Dress Room – First Floor	S	Flush			<1.00		
<b>13 P</b>	<b>C109 Women's Dressing Room – First Floor</b>	<b>S</b>	<b>First</b>					<b>5.80</b>
13 F	C109 Women's Dressing Room – First Floor	S	Flush			<1.00		
14 P	Water Fountain outside Auditorium: 1 <sup>st</sup> Floor	WF	First			<1.00		
14 F	Water Fountain outside Auditorium: 1 <sup>st</sup> Floor	WF	Flush			<1.00		
15 P	1 <sup>st</sup> Floor Girl's Restroom Sink #1	S	First			<1.00		
15 F	1 <sup>st</sup> Floor Girl's Restroom Sink #1	S	Flush			<1.00		
16 P	1 <sup>st</sup> Floor Boy's Restroom Sink #1	S	First			<1.00		
<b>16 F</b>	<b>1<sup>st</sup> Floor Boy's Restroom Sink #1</b>	<b>S</b>	<b>Flush</b>			<b>1.40</b>		
<b>17 P</b>	<b>2<sup>nd</sup> Floor Kitchen Sink at Slicer</b>	<b>S</b>	<b>First</b>			<b>1.10</b>		
17 F	2 <sup>nd</sup> Floor Kitchen Sink at Slicer	S	Flush			<1.00		
<b>18 P</b>	<b>2<sup>nd</sup> Floor Kitchen Sink by Windows</b>	<b>S</b>	<b>First</b>			<b>1.50</b>		
18 F	2 <sup>nd</sup> Floor Kitchen Sink by Windows	S	Flush			<1.00		
<b>19 P</b>	<b>2<sup>nd</sup> Floor Kitchen Sink by Entry</b>	<b>S</b>	<b>First</b>			<b>2.30</b>		
19 F	2 <sup>nd</sup> Floor Kitchen Sink by Entry	S	Flush			<1.00		
<b>20 P</b>	<b>2<sup>nd</sup> Floor Kitchen Middle Sink – Baking Class</b>	<b>S</b>	<b>First</b>			<b>1.20</b>		
20 F	2 <sup>nd</sup> Floor Kitchen Middle Sink – Baking Class	S	Flush			<1.00		
<b>21 P</b>	<b>2<sup>nd</sup> Floor Kitchen – Pot Filler</b>	<b>S</b>	<b>First</b>			<b>11.1</b>		
21 F	2 <sup>nd</sup> Floor Kitchen – Pot Filler	S	Flush			<1.00		
<b>22 P</b>	<b>Room 205 Science Sink Front of Room</b>	<b>S</b>	<b>First</b>			<b>197</b>		
22 F	Room 205 Science Sink Front of Room	S	Flush			<1.00		
<b>23 P</b>	<b>Room 207 Science Sink Front of Room</b>	<b>S</b>	<b>First</b>			<b>2.40</b>		
23 F	Room 207 Science Sink Front of Room	S	Flush			<1.00		
24 P	Fountain outside Boys' & Girls' Restroom	WF	First	<1.00				
24 F	Fountain outside Boys' & Girls' Restroom	WF	Flush	<1.00				
25 P	2 <sup>nd</sup> Floor Girls' Low Sink – Hall Bathroom	S	First	<1.00				
25 F	2 <sup>nd</sup> Floor Girls' Low Sink – Hall Bathroom	S	Flush	<1.00				
26 P	2 <sup>nd</sup> Floor Boys' Hall Bathroom	S	First	<1.00				
26 F	2 <sup>nd</sup> Floor Boys' Hall Bathroom	S	Flush	<1.00				
<b>27 P</b>	<b>2<sup>nd</sup> Floor Nurse's Bathroom</b>	<b>S</b>	<b>First</b>	<b>5.80</b>				
27 F	2 <sup>nd</sup> Floor Nurse's Bathroom	S	Flush	<1.00				
<b>28 P</b>	<b>A201 Art Sink</b>	<b>S</b>	<b>First</b>	<b>1.70</b>				
<b>28 F</b>	<b>A201 Art Sink</b>	<b>S</b>	<b>Flush</b>	<b>3.00</b>				
<b>29 P</b>	<b>D210 adjacent 214</b>	<b>S</b>	<b>First</b>	<b>42.30</b>				
29 F	D210 adjacent 214	S	Flush	<1.00				
30 P	Fountain across from B202	WF	First	<1.00				
30 F	Fountain across from B202	WF	Flush	<1.00				

WF = Water Fountain S = Sink Outlet HS = Hydration Station/Bottle Filler ICP – MS = Inductively coupled plasma mass spectrometry  
 Results reported in **RED** are at or above the Action Level and should be **taken out of service immediately**.  
 Results reported in **BOLD** are below the Action Level but not void of lead content and should be flushed daily.

Lead in Drinking Water						
Sample #	Location	Outlet Type	Draw	Sampling Method	CoP Action Level (AL)	Results (ppb)
31 P	Bottle Filler outside B202	HS	Flush	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<1.00
31 F	Bottle Filler outside B202	HS	First			<1.00
<b>32 P</b>	<b>Room 203 – Left Art Sink</b>	<b>S</b>	<b>Flush</b>			<b>8.60</b>
32 F	Room 203 – Left Art Sink	S	First			<1.00
<b>33 P</b>	<b>Room 203 – Middle Art Sink</b>	<b>S</b>	<b>Flush</b>			<b>35.5</b>
33 F	Room 203 – Middle Art Sink	S	First			<1.00
<b>34 P</b>	<b>Room 203 – Right Art Sink</b>	<b>S</b>	<b>Flush</b>			<b>12.8</b>
34 F	Room 203 – Right Art Sink	S	First			<1.00
35 P	Bottle Filler across from Room 202	HS	Flush			<1.00
35 F	Bottle Filler across from Room 202	HS	First			<1.00
<b>36 P</b>	<b>Bottle Filler outside Room 302</b>	<b>HS</b>	<b>Flush</b>			<b>4.10</b>
36 F	Bottle Filler outside Room 302	HS	First			<1.00
37 P	Sink – Boys’ 302	S	Flush			<1.00
37 F	Sink – Boys’ 302	S	First			<1.00
38 P	Sink – Girls’ 302	S	Flush			<1.00
38 F	Sink – Girls’ 302	S	First			<1.00
39 P	Room 208 Sink	S	Flush			<1.00
39 F	Room 208 Sink	S	First			<1.00
40 P	Unisex Hall Bathroom Sink	S	Flush			1.00
40 F	Unisex Hall Bathroom Sink	S	First			<1.00
<b>41 P</b>	<b>Room B305 – Sink front of Room</b>	<b>S</b>	<b>Flush</b>			<b>10.2</b>
41 F	Room B305 – Sink front of Room	S	First	<1.00		

WF = Water Fountain S = Sink Outlet HS = Hydration Station/Bottle Filler ICP – MS = Inductively coupled plasma mass spectrometry  
 Results reported in **RED** are at or above the Action Level and should be **taken out of service immediately**.  
 Results reported in **BOLD** are below the Action Level but not void of lead content and should be flushed daily.

#### 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 are:

- Sample 03 Kitchen Sink #3 – First Floor
- Sample 04 Kitchen Sink #4 – First Floor
- Sample 06 Kitchen Sink #6 – First Floor
- Sample 12 C110 Sink – Men’s Dressing Room – First Floor
- Sample 21 2<sup>nd</sup> Floor Kitchen – Pot Filler
- Sample 22 Room 205 Science Sink Front of Room
- Sample 29 D210 Sink Adjacent 214
- Sample 33 Room 203 Middle Art Sink
- Sample 34 Room 203 Right Art Sink
- Sample 41 Room B305 Sink at Front of Room

The above outlets 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 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 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*

  
Eric Bell

Industrial Hygiene Technician, Managing Partner

**Attachment #1**

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

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Report Date: 5/9/2024  
Report No.: 699370 - Lead Water  
Project: Universal Charter School: Audenried  
Project No.: 704-003-02

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7752077                      **Location:** Kitchen Sink #1 1st FL                      **Result(ppb):** <1.00  
**Client No.:** 01F                      \* Sample acidified to pH <2.

**Lab No.:** 7752078                      **Location:** Kitchen Sink #2 1st FL                      **Result(ppb):** <1.00  
**Client No.:** 02F                      \* Sample acidified to pH <2.

**Lab No.:** 7752079                      **Location:** Kitchen Sink #3 1st FL                      **Result(ppb):** <1.00  
**Client No.:** 03F                      \* Sample acidified to pH <2.

**Lab No.:** 7752080                      **Location:** Kitchen Sink #4 1st FL                      **Result(ppb):** <1.00  
**Client No.:** 04F                      \* Sample acidified to pH <2.

**Lab No.:** 7752081                      **Location:** Kitchen Sink #5 1st FL                      **Result(ppb):** <1.00  
**Client No.:** 05F                      \* Sample acidified to pH <2.

**Lab No.:** 7752082                      **Location:** Kitchen Sink #6 1st FL                      **Result(ppb):** 12.7  
**Client No.:** 06F                      \* Sample acidified to pH <2.  
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.


**Lab No.:** 7752083                      **Location:** Kitchen Sink #7 1st FL                      **Result(ppb):** 1.50  
**Client No.:** 07F                      \* Sample acidified to pH <2.


**Lab No.:** 7752084                      **Location:** Men Change Room Sink 1st FL                      **Result(ppb):** 3.80  
**Client No.:** 08F                      \* Sample acidified to pH <2.

**Lab No.:** 7752085                      **Location:** Women Change Room Sink 1st FL                      **Result(ppb):** <1.00  
**Client No.:** 09F                      \* Sample acidified to pH <2.

**Lab No.:** 7752086                      **Location:** 115 R.R Sink                      **Result(ppb):** <1.00  
**Client No.:** 10F                      \* Sample acidified to pH <2.

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

Date Received: 4/29/2024  
Date Analyzed: 05/09/2024  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Report Date: 5/9/2024  
Report No.: 699370 - Lead Water  
Project: Universal Charter School: Audenried  
Project No.: 704-003-02

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7752087                      Location: 115 Kitchen Sink                      Result(ppb): <1.00  
Client No.: 11F                      \* Sample acidified to pH <2.

Lab No.: 7752088                      Location: C110 Men Dress Room 1st FL                      Result(ppb): <1.00  
Client No.: 12F                      \* Sample acidified to pH <2.

Lab No.: 7752089                      Location: C109 Women Dress 1sr FL                      Result(ppb): <1.00  
Client No.: 13F                      \* Sample acidified to pH <2.

Lab No.: 7752090                      Location: Water Fountain O/S Auditorium 1st                      Result(ppb): <1.00  
Client No.: 14F                      \* Sample acidified to pH <2.

Lab No.: 7752091                      Location: 1st FL Girl's R.R Sink #1                      Result(ppb): <1.00  
Client No.: 15F                      \* Sample acidified to pH <2.

Lab No.: 7752092                      Location: 1st FL Boy's R.R Sink #1                      Result(ppb): 1.40  
Client No.: 16F                      \* Sample acidified to pH <2.


Lab No.: 7752093                      Location: 2nd FL Kitchen Sink And Slicer                      Result(ppb): <1.00  
Client No.: 17F                      \* Sample acidified to pH <2.


Lab No.: 7752094                      Location: 2nd FL Kitchen Sink By Windows                      Result(ppb): <1.00  
Client No.: 18F                      \* Sample acidified to pH <2.

Lab No.: 7752095                      Location: 2nd FL Kitchen Sink By Entry                      Result(ppb): <1.00  
Client No.: 19F                      \* Sample acidified to pH <2.

Lab No.: 7752096                      Location: 2nd FL Kitchen Middle Sink Baking Class                      Result(ppb): <1.00  
Client No.: 20F                      \* Sample acidified to pH <2.

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

Date Received: 4/29/2024  
Date Analyzed: 05/09/2024  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Report Date: 5/9/2024  
Report No.: 699370 - Lead Water  
Project: Universal Charter School: Audenried  
Project No.: 704-003-02

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7752097      Location: 2nd FL Kitchen Pot Fill Outlet      Result(ppb): <1.00  
Client No.: 21F      \* Sample acidified to pH <2.

Lab No.: 7752098      Location: Room 205 Science Sink Front Of Room      Result(ppb): <1.00  
Client No.: 22F      \* Sample acidified to pH <2.

Lab No.: 7752099      Location: Room 207 Science Front Of Room      Result(ppb): <1.00  
Client No.: 23F      \* Sample acidified to pH <2.

Lab No.: 7752100      Location: Fountain O/S Boy's And Girl's R.R.      Result(ppb): <1.00  
Client No.: 24F      \* Sample acidified to pH <2.

Lab No.: 7752101      Location: 2nd FL Girl's Low Sink Hall Bath      Result(ppb): <1.00  
Client No.: 25F      \* Sample acidified to pH <2.

Lab No.: 7752102      Location: 2nd FL Boy's Hall Bath      Result(ppb): <1.00  
Client No.: 26F      \* Sample acidified to pH <2.


Lab No.: 7752103      Location: 2nd FL Nurse Bath      Result(ppb): <1.00  
Client No.: 27F      \* Sample acidified to pH <2.

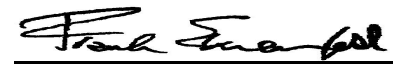
Lab No.: 7752104      Location: A201 Art      Result(ppb): 3.00  
Client No.: 28F      \* Sample acidified to pH <2.

Lab No.: 7752105      Location: D210 Adj. 214      Result(ppb): <1.00  
Client No.: 29F      \* Sample acidified to pH <2.

Lab No.: 7752106      Location: Fountain Across B202      Result(ppb): <1.00  
Client No.: 30F      \* Sample acidified to pH <2.

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

Date Received: 4/29/2024  
Date Analyzed: 05/09/2024  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Report Date: 5/9/2024  
Report No.: 699370 - Lead Water  
Project: Universal Charter School: Audenried  
Project No.: 704-003-02

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7752107                      Location: Bottle Filler O/S B202                      Result(ppb): <1.00  
Client No.: 31F                      \* Sample acidified to pH <2.

Lab No.: 7752108                      Location: 203 Art Left First                      Result(ppb): <1.00  
Client No.: 32F                      \* Sample acidified to pH <2.

Lab No.: 7752109                      Location: 203 Art Room Middle                      Result(ppb): <1.00  
Client No.: 33F                      \* Sample acidified to pH <2.

Lab No.: 7752110                      Location: 203 Art Room Right                      Result(ppb): <1.00  
Client No.: 34F                      \* Sample acidified to pH <2.

Lab No.: 7752111                      Location: Across From 202 Bottle Fill                      Result(ppb): <1.00  
Client No.: 35F                      \* Sample acidified to pH <2.

Lab No.: 7752112                      Location: Bottle Filler O/S 302                      Result(ppb): <1.00  
Client No.: 36F                      \* Sample acidified to pH <2.


Lab No.: 7752113                      Location: Boy's 320                      Result(ppb): <1.00  
Client No.: 37F                      \* Sample acidified to pH <2.


Lab No.: 7752114                      Location: Girl's 302                      Result(ppb): <1.00  
Client No.: 38F                      \* Sample acidified to pH <2.

Lab No.: 7752115                      Location: C208                      Result(ppb): <1.00  
Client No.: 39F                      \* Sample acidified to pH <2.

Lab No.: 7752116                      Location: Unisex Bath Hall                      Result(ppb): <1.00  
Client No.: 40F                      \* Sample acidified to pH <2.

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

Date Received: 4/29/2024  
Date Analyzed: 05/09/2024  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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CERTIFICATE OF ANALYSIS

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Client: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Report Date: 5/9/2024  
Report No.: 699370 - Lead Water  
Project: Universal Charter School: Audenried  
Project No.: 704-003-02

Client: SYN177

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LEAD WATER SAMPLE ANALYSIS SUMMARY

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Lab No.: 7752117  
Client No.: 41F


Location: B305 Front Of Room  
\* Sample acidified to pH <2.


Result(ppb): <1.00

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

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Date Received: 4/29/2024  
Date Analyzed: 05/09/2024  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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CERTIFICATE OF ANALYSIS

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Client: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Report Date: 5/9/2024  
Report No.: 699370 - Lead Water  
Project: Universal Charter School: Audenried  
Project No.: 704-003-02

Client: SYN177

## Appendix to Analytical Report:

**Customer Contact:**

**Analysis:** AAS-GF - ASTM D3559-15D

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL 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](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.

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This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:

- ASTM D3559-15D

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

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

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

Regulatory limit for lead in drinking water is 15.0 parts per billion as cited in EPA 40 CFR 141.11 National Primary Drinking Water Regulations, Subpart B: Maximum contaminant levels for inorganic chemicals.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Sample results are not corrected for contamination by field or analytical blanks.

PPB = Parts per billion. 1 µg/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 1.0 PPB

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CERTIFICATE OF ANALYSIS

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Client: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Client: SYN177

Report Date: 5/9/2024  
Report No.: 699370 - Lead Water  
Project: Universal Charter School: Audenried  
Project No.: 704-003-02

**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.



## Chain of Custody Transmittal Potable Drinking Water Samples via US EPA 200.9 Pb

Project Name: Universal Charter School: Audenried Project No: 704-003-02

State Sampled: Pennsylvania Laboratory: IATL

Analysis Type: Lead in Drinking Water by EPA 200.9 TAT: 2 Week TAT

Samples Collected By: Harold Santiago Date/Time \_\_\_\_\_

Transmitted to Lab By: Harold Santiago Date/Time \_\_\_\_\_

Received in Lab By: \_\_\_\_\_ Date/Time \_\_\_\_\_

Samples Analyzed By: 6/5/24 Date/Time \_\_\_\_\_

SAMPLE #	LOCATION	REMARKS
01 F	Kitchen Sink #1 1st FL	7752077 F W/ST
02 F	Kitchen Sink #2 1st FL	7752078
03 F	Kitchen Sink #3 1st FL	7752079
04 F	Kitchen Sink #4 1st FL	7752080
05 F	Kitchen Sink #5 1st FL	7752081
06 F	Kitchen Sink #6 1st FL	7752082 T
07 F	Kitchen Sink #7 1st FL	7752083
08 F	Men's Change Room Sink 1st FL	7752084
09 F	Women's Change Room Sink 1st FL	7752085
10 F	NS R.R. Sink	7752086
11 F	NS Kitchen Sink	7752087
12 F	C110 Men Dress Room Sink 1st FL	7752088
13 F	C109 Women Dress 1st FL	7752089
14 F	Water Fountain of Auditorium 1st	7752090
15 F	1st FL Girls R.R. Sink #1	7752091 29 2024
16 F	1st FL Boys R.R. Sink #1	7752092
17 F	2nd FL Kitchen Sink & Slicer	7752093 IATL BY [Signature]
18 F	2nd FL Kitchen Sink by Windows	7752094
19 F	2nd FL Kitchen Sink By Entry	7752095
20 F	2nd FL Kitchen Middle Sink Baking Class	7752096
21 F	2nd FL Kitchen Pot Fill Outlet	7752097
22 F	Room 205 Science Sink - Front of Room	7752098



## Chain of Custody Transmittal Potable Drinking Water Samples via US EPA 200.9 Pb

Project Name: Universal Charter School: Audenried Project No: 704-003-02

State Sampled: Pennsylvania Laboratory: IATL

Analysis Type: Lead in Drinking Water by EPA 200.9 TAT: 2 Week TAT

Samples Collected By: Harold Santiago Date/Time \_\_\_\_\_

Transmitted to Lab By: \_\_\_\_\_ Date/Time \_\_\_\_\_

Received in Lab By: \_\_\_\_\_ Date/Time \_\_\_\_\_

Samples Analyzed By: \_\_\_\_\_ Date/Time \_\_\_\_\_

SAMPLE #	LOCATION	REMARKS
23 F	Room 207 Science Front of Room 7752099	Flush
24 F	Fountain o/s Boy's & Girls R.R. 7752100	
25 F	2nd FL Girl's low sink Hall Bath 7752101	
26 F	2nd FL Boy's Hall Bath 7752102	
27 F	2nd FL Nurse Bath 7752103	
28 F	A201 Apt 7752104	
29 F	D 210 Adj 214 7752105	
30 F	Fountain Across B202 7752106	
31 F	Bottle Filler o/s B202 7752107	
32 F	203 Art - Left first 7752108	
33 F	203 Art Middle 7752109	
34 F	203 Art Room Right 7752110	
35 F	Across from 202 Bottle Fill 7752111	
36 F	Bottle Filler o/s 302 7752112	
37 F	Boy's 302 7752113	
38 F	Girl's 302 7752114	
39 F	C208 7752115	
40 F	Unisex Bath Hall 7752116	
41 F	B305 Front of Room 7752117	
	Acidified MS	
	5/6/24 12:30	