

June 1, 2023

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 Creighton Charter School  
Philadelphia, Pennsylvania  
Synertech Project No. 704-002-5**

Dear Mr. Threadgill:

**I. Executive Summary**

At your request, on April 18, 2023, *Synertech Environmental, LLC* performed lead in water sampling at the Universal Creighton Charter School, which is located at 5401 Tabor Avenue, 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 K-8 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 sample 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 seventy (70) samples were collected from twenty-one (21) water fountain and bottle filler outlet locations 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 parts per billion (ppb) or micrograms/liter (ug), 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](mailto: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 ppb, 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 ppb.

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 ppb. 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 reported to be below the Action Level of 10 parts per billion and are listed in the table below. Samples were only collected from operational units.

Lead in Drinking Water						
Sample #	Location	Outlet Type	Draw	Sampling Method	CoP Action Level (AL)	Results (ppb)
01	Kitchen - Left Sink (Wash)	Sink	First	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<1.00
02	Kitchen - Left Sink (Wash)	Sink	Flush			<1.00
03	Kitchen - Right Sink (Rinse)	Sink	First			1.00
04	Kitchen - Right Sink (Rinse)	Sink	Flush			<1.00
05	Drinking Fountain O/S Boy's Restroom	WF	First			<1.00
06	Drinking Fountain O/S Boy's Restroom	WF	Flush			<1.00
07	Bottle Filler O/S Boy's Restroom	HS	First			<1.00
08	Bottle Filler O/S Boy's Restroom	HS	Flush			<1.00
09	Drinking Fountain O/S Room 104	WF	First			<1.00
10	Drinking Fountain O/S Room 104	WF	Flush			1.00
11	Bottle Filler O/S Room 104	HS	First			<1.00
12	Bottle Filler O/S Room 104	HS	Flush			<1.00
13	Drinking Fountain O/S Room 204	WF	First			<1.00
14	Drinking Fountain O/S Room 204	WF	Flush			<1.00
15	Drinking Fountain O/S Room 207	WF	First			<1.00
16	Drinking Fountain O/S Room 207	WF	Flush			<1.00

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

Continued on next page

Lead in Drinking Water (Continued)						
Sample #	Location	Outlet Type	Draw	Sampling Method	CoP Action Level (AL)	Results (ppb)
17	Bottle Filler O/S Room 207	HS	First	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<1.00
18	Bottle Filler O/S Room 207	HS	Flush			<1.00
19	Drinking Fountain O/S Room 304	WF	First			<1.00
20	Drinking Fountain O/S Room 304	WF	Flush			<1.00
21	Bottle Filler O/S Room 304	HS	First			<1.00
22	Bottle Filler O/S Room 304	HS	Flush			<1.00
23	Drinking Fountain O/S Room 307	WF	First			<1.00
24	Drinking Fountain O/S Room 307	WF	Flush			<1.00
25	Bottle Filler O/S Room 307	HS	First			<1.00
26	Bottle Filler O/S Room 307	HS	Flush			<1.00
27	Classroom 401 Drinking Fountain	WF	First			<1.00
28	Classroom 401 Drinking Fountain	WF	Flush			<1.00
29	Classroom 401 Sink	Sink	First			<1.00
30	Classroom 401 Sink	Sink	Flush			1.40
31	Classroom 402 Drinking Fountain	WF	First			3.30
32	Classroom 402 Drinking Fountain	WF	Flush			<1.00
33	Classroom 402 Sink	Sink	First			<1.00
34	Classroom 402 Sink	Sink	Flush			<1.00
35	Classroom 403 Drinking Fountain	WF	First			<1.00
36	Classroom 403 Drinking Fountain	WF	Flush			<1.00
37	Classroom 403 Sink	Sink	First			<1.00
38	Classroom 403 Sink	Sink	Flush			<1.00
39	Kitchen Sink (Left)	Sink	First			<1.00
40	Kitchen Sink (Left)	Sink	Flush			<1.00
41	Kitchen Sink (Right)	Sink	First			<1.00
42	Kitchen Sink (Right)	Sink	Flush			<1.00
43	Drinking Fountain O/S Restrooms (Left)	WF	First			<1.00
44	Drinking Fountain O/S Restrooms (Left)	WF	Flush			<1.00
45	Bottle Filler O/S Restrooms (Left)	HS	First			<1.00
46	Bottle Filler O/S Restrooms (Left)	HS	Flush			<1.00
47	Drinking Fountain O/S Restrooms (Right)	WF	First			<1.00
48	Drinking Fountain O/S Restrooms (Right)	WF	Flush			1.10
49	Bottle Filler O/S Restrooms (Right)	HS	First			<1.00
50	Bottle Filler O/S Restrooms (Right)	HS	Flush			2.90
51	Classroom 405 Drinking Fountain	WF	First			2.60
52	Classroom 405 Drinking Fountain	WF	Flush			<1.00
53	Classroom 405 Sink	Sink	First			3.10
54	Classroom 405 Sink	Sink	Flush			1.90
55	Classroom 408 Drinking Fountain	WF	First			4.00
56	Classroom 408 Drinking Fountain	WF	Flush			3.40
57	Classroom 408 Sink	Sink	First			<1.00
58	Classroom 408 Sink	Sink	Flush			<1.00
59	Classroom 409 Drinking Fountain	WF	First			1.70
60	Classroom 409 Drinking Fountain	WF	Flush			2.00
61	Classroom 409 Sink	Sink	First			1.10
62	Classroom 409 Sink	Sink	Flush			1.60
63	Classroom 411 Drinking Fountain	WF	First			1.90
64	Classroom 411 Drinking Fountain	WF	Flush			2.00
65	Classroom 411 Sink	Sink	First			<1.00
66	Classroom 411 Sink	Sink	Flush			2.90
67	Classroom 412 Drinking Fountain	WF	First			1.00
68	Classroom 412 Drinking Fountain	WF	Flush			1.30
69	Classroom 412 Sink	Sink	First			1.10
70	Classroom 412 Sink	Sink	Flush			1.40

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

#### IV. Summary of Results

The laboratory data indicates that **all the results to be below the Action Level of 10 ppb and nor further action is required.** However, since there is no “safe” level of lead in drinking water, Synertech Environmental recommends flushing of drinking water outlets in which lead was reported to be present at concentrations below 10ppb. The classrooms where low concentrations of lead were reported include the Kitchen Rinse Sink, the drinking fountain outside Room 104, Classroom 401, Classroom 402, Classroom 408, the Hallway Outlet outside Restrooms by 402, Classroom 405, Classroom 409, Classroom 411, and Classroom 412, and the water should be flushed for at least 30 seconds prior to drinking. 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*



Ryan Hutsell  
Project Manager  
Pennsylvania Lead Risk Assessor #059512

**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: 5/2/2023  
Report No.: 682304 - Lead Water  
Project: Universal Charter School - Creighton  
Project No.: 704-002-5

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7606414      Location: Kitchen - Left Sink (Wash) First Draw      Result(ppb): <1.00  
Client No.: 01      \* Sample acidified to pH <2.

Lab No.: 7606415      Location: Kitchen - Left Sink (Wash) Flush      Result(ppb): <1.00  
Client No.: 02      \* Sample acidified to pH <2.

Lab No.: 7606416      Location: Kitchen - Right Sink (Rinse) First Draw      Result(ppb): 1.00  
Client No.: 03      \* Sample acidified to pH <2.

Lab No.: 7606417      Location: Kitchen - Right Sink (Rinse) Flush      Result(ppb): <1.00  
Client No.: 04      \* Sample acidified to pH <2.

Lab No.: 7606418      Location: Drinking Fountain O/S Boy's Restroom First Draw      Result(ppb): <1.00  
Client No.: 05      \* Sample acidified to pH <2.

Lab No.: 7606419      Location: Drinking Fountain O/S Boy's Restroom Flush      Result(ppb): <1.00  
Client No.: 06      \* Sample acidified to pH <2.


Lab No.: 7606420      Location: Bottle Filler O/S Boy's Restroom First Draw      Result(ppb): <1.00  
Client No.: 07      \* Sample acidified to pH <2.


Lab No.: 7606421      Location: Bottle Filler O/S Boy's Restroom Flush      Result(ppb): <1.00  
Client No.: 08      \* Sample acidified to pH <2.

Lab No.: 7606422      Location: Drinking Fountain O/S Room 104 First Draw      Result(ppb): <1.00  
Client No.: 09      \* Sample acidified to pH <2.

Lab No.: 7606423      Location: Drinking Fountain O/S Room 104 Flush      Result(ppb): 1.00  
Client No.: 10      \* Sample acidified to pH <2.

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

Date Received: 4/24/2023  
Date Analyzed: 05/01/2023  
Signature:   
Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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228 Moore Street  
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7606424      Location: Bottle Filler O/S Room 104 First Draw      Result(ppb): <1.00  
Client No.: 11      \* Sample acidified to pH <2.

Lab No.: 7606425      Location: Bottle Filler O/S Room 104 Flush      Result(ppb): <1.00  
Client No.: 12      \* Sample acidified to pH <2.

Lab No.: 7606426      Location: Drinking Fountain O/S Room 204 First Draw      Result(ppb): <1.00  
Client No.: 13      \* Sample acidified to pH <2.

Lab No.: 7606427      Location: Drinking Fountain O/S Room 204 Flush      Result(ppb): <1.00  
Client No.: 14      \* Sample acidified to pH <2.

Lab No.: 7606428      Location: Drinking Fountain O/S Room 207 First Draw      Result(ppb): <1.00  
Client No.: 15      \* Sample acidified to pH <2.

Lab No.: 7606429      Location: Drinking Fountain O/S Room 207 Flush      Result(ppb): <1.00  
Client No.: 16      \* Sample acidified to pH <2.


Lab No.: 7606430      Location: Bottle Filler O/S Room 207 First Draw      Result(ppb): <1.00  
Client No.: 17      \* Sample acidified to pH <2.


Lab No.: 7606431      Location: Bottle Filler O/S Room 207 Flush      Result(ppb): <1.00  
Client No.: 18      \* Sample acidified to pH <2.

Lab No.: 7606432      Location: Drinking Fountain O/S Room 304 First Draw      Result(ppb): <1.00  
Client No.: 19      \* Sample acidified to pH <2.

Lab No.: 7606433      Location: Drinking Fountain O/S Room 304 Flush      Result(ppb): <1.00  
Client No.: 20      \* Sample acidified to pH <2.

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Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
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Project: Universal Charter School - Creighton  
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7606434                      Location: Bottle Filler O/S Room 304 First Draw                      Result(ppb): <1.00  
Client No.: 21                      \* Sample acidified to pH <2.

Lab No.: 7606435                      Location: Bottle Filler O/S Room 304 Flush                      Result(ppb): <1.00  
Client No.: 22                      \* Sample acidified to pH <2.

Lab No.: 7606436                      Location: Drinking Fountain O/S Room 307 First Draw                      Result(ppb): <1.00  
Client No.: 23                      \* Sample acidified to pH <2.

Lab No.: 7606437                      Location: Drinking Fountain O/S Room 307 Flush                      Result(ppb): <1.00  
Client No.: 24                      \* Sample acidified to pH <2.

Lab No.: 7606438                      Location: Bottle Filler O/S Room 307 First Draw                      Result(ppb): <1.00  
Client No.: 25                      \* Sample acidified to pH <2.

Lab No.: 7606439                      Location: Bottle Filler O/S Room 307 Flush                      Result(ppb): <1.00  
Client No.: 26                      \* Sample acidified to pH <2.

Lab No.: 7606440                      Location: Classroom 401 Drinking Fountain First Draw                      Result(ppb): <1.00  
Client No.: 27                      \* Sample acidified to pH <2.

Lab No.: 7606441                      Location: Classroom 401 Drinking Fountain Flush                      Result(ppb): <1.00  
Client No.: 28                      \* Sample acidified to pH <2.

Lab No.: 7606442                      Location: Classroom 401 Sink First Draw                      Result(ppb): <1.00  
Client No.: 29                      \* Sample acidified to pH <2.

Lab No.: 7606443                      Location: Classroom 401 Sink Flush                      Result(ppb): 1.40  
Client No.: 30                      \* Sample acidified to pH <2.

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Signature:   
Analyst: Mark Stewart

Approved By:   
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LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7606444      **Location:** Classroom 402 Drinking Fountain First Draw      **Result(ppb):** 3.30  
**Client No.:** 31      \* Sample acidified to pH <2.

**Lab No.:** 7606445      **Location:** Classroom 402 Drinking Fountain Flush      **Result(ppb):** <1.00  
**Client No.:** 32      \* Sample acidified to pH <2.

**Lab No.:** 7606446      **Location:** Classroom 402 Sink First Draw      **Result(ppb):** <1.00  
**Client No.:** 33      \* Sample acidified to pH <2.

**Lab No.:** 7606447      **Location:** Classroom 402 Sink Flush      **Result(ppb):** <1.00  
**Client No.:** 34      \* Sample acidified to pH <2.

**Lab No.:** 7606448      **Location:** Classroom 403 Drinking Fountain First Draw      **Result(ppb):** <1.00  
**Client No.:** 35      \* Sample acidified to pH <2.

**Lab No.:** 7606449      **Location:** Classroom 403 Drinking Fountain Flush      **Result(ppb):** <1.00  
**Client No.:** 36      \* Sample acidified to pH <2.

**Lab No.:** 7606450      **Location:** Classroom 403 Sink First Draw      **Result(ppb):** <1.00  
**Client No.:** 37      \* Sample acidified to pH <2.

**Lab No.:** 7606451      **Location:** Classroom 403 Sink Flush      **Result(ppb):** <1.00  
**Client No.:** 38      \* Sample acidified to pH <2.

**Lab No.:** 7606452      **Location:** Kitchen Sink (Left) First Draw      **Result(ppb):** <1.00  
**Client No.:** 39      \* Sample acidified to pH <2.

**Lab No.:** 7606453      **Location:** Kitchen Sink (Left) Flush      **Result(ppb):** <1.00  
**Client No.:** 40      \* Sample acidified to pH <2.

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

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Signature:   
Analyst: Mark Stewart

Approved By:   
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7606454                      Location: Kitchen Sink (Right) First Draw                      Result(ppb): <1.00  
Client No.: 41                      \* Sample acidified to pH <2.

Lab No.: 7606455                      Location: Kitchen Sink (Right) Flush                      Result(ppb): <1.00  
Client No.: 42                      \* Sample acidified to pH <2.


Lab No.: 7606456                      Location: Drinking Fountain O/S Restrooms (Left) First Draw                      Result(ppb): <1.00  
Client No.: 43                      \* Sample acidified to pH <2.


Lab No.: 7606457                      Location: Drinking Fountain O/S Restrooms (Left) Flush                      Result(ppb): <1.00  
Client No.: 44                      \* Sample acidified to pH <2.

Lab No.: 7606458                      Location: Bottle Filler O/S Restrooms (Left) First Draw                      Result(ppb): <1.00  
Client No.: 45                      \* Sample acidified to pH <2.

Lab No.: 7606459                      Location: Bottle Filler O/S Restrooms (Left) Flush                      Result(ppb): <1.00  
Client No.: 46                      \* Sample acidified to pH <2.

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Analyst: Mark Stewart

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LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7606460      **Location:** Drinking Fountain O/S Restrooms (Right) First Draw      **Result(ppb):** <1.00  
**Client No.:** 47  
\* Sample acidified to pH <2.

**Lab No.:** 7606461      **Location:** Drinking Fountain O/S Restrooms (Right) Flush      **Result(ppb):** 1.10  
**Client No.:** 48  
\* Sample acidified to pH <2.

**Lab No.:** 7606462      **Location:** Bottle Filler O/S Restrooms (Right) First Draw      **Result(ppb):** <1.00  
**Client No.:** 49  
\* Sample acidified to pH <2.

**Lab No.:** 7606463      **Location:** Bottle Filler O/S Restrooms (Right) Flush      **Result(ppb):** 2.90  
**Client No.:** 50  
\* Sample acidified to pH <2.

**Lab No.:** 7606464      **Location:** Classroom 405 Drinking Fountain First Draw      **Result(ppb):** 2.60  
**Client No.:** 51  
\* Sample acidified to pH <2.

**Lab No.:** 7606465      **Location:** Classroom 405 Drinking Fountain Flush      **Result(ppb):** <1.00  
**Client No.:** 52  
\* Sample acidified to pH <2.

**Lab No.:** 7606466      **Location:** Classroom 405 Sink First Draw      **Result(ppb):** 3.10  
**Client No.:** 53  
\* Sample acidified to pH <2.

**Lab No.:** 7606467      **Location:** Classroom 405 Sink Flush      **Result(ppb):** 1.90  
**Client No.:** 54  
\* Sample acidified to pH <2.

**Lab No.:** 7606468      **Location:** Classroom 408 Drinking Fountain First Draw      **Result(ppb):** 4.00  
**Client No.:** 55  
\* Sample acidified to pH <2.

**Lab No.:** 7606469      **Location:** Classroom 408 Drinking Fountain Flush      **Result(ppb):** 3.40  
**Client No.:** 56  
\* Sample acidified to pH <2.

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

Date Received: 4/24/2023  
Date Analyzed: 05/02/2023  
Signature:   
Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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Report Date: 5/2/2023  
Report No.: 682304 - Lead Water  
Project: Universal Charter School - Creighton  
Project No.: 704-002-5

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7606470      Location: Classroom 408 Sink First Draw      Result(ppb): <1.00  
Client No.: 57      \* Sample acidified to pH <2.

Lab No.: 7606471      Location: Classroom 408 Sink Flush      Result(ppb): <1.00  
Client No.: 58      \* Sample acidified to pH <2.

Lab No.: 7606472      Location: Classroom 409 Drinking Fountain First Draw      Result(ppb): 1.70  
Client No.: 59      \* Sample acidified to pH <2.

Lab No.: 7606473      Location: Classroom 409 Drinking Fountain Flush      Result(ppb): 2.00  
Client No.: 60      \* Sample acidified to pH <2.

Lab No.: 7606474      Location: Classroom 409 Sink First Draw      Result(ppb): 1.10  
Client No.: 61      \* Sample acidified to pH <2.

Lab No.: 7606475      Location: Classroom 409 Sink Flush      Result(ppb): 1.60  
Client No.: 62      \* Sample acidified to pH <2.


Lab No.: 7606476      Location: Classroom 411 Drinking Fountain First Draw      Result(ppb): 1.90  
Client No.: 63      \* Sample acidified to pH <2.

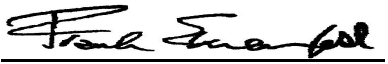
Lab No.: 7606477      Location: Classroom 411 Drinking Fountain Flush      Result(ppb): 2.00  
Client No.: 64      \* Sample acidified to pH <2.

Lab No.: 7606478      Location: Classroom 411 Sink First Draw      Result(ppb): <1.00  
Client No.: 65      \* Sample acidified to pH <2.

Lab No.: 7606479      Location: Classroom 411 Sink Flush      Result(ppb): 2.90  
Client No.: 66      \* Sample acidified to pH <2.

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

Date Received: 4/24/2023  
Date Analyzed: 05/02/2023  
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: 5/2/2023  
Report No.: 682304 - Lead Water  
Project: Universal Charter School - Creighton  
Project No.: 704-002-5

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY


**Lab No.:** 7606480                      **Location:** Classroom 412 Drinking Fountain First Draw                      **Result(ppb):** 1.00  
**Client No.:** 67                              \* Sample acidified to pH <2.


**Lab No.:** 7606481                      **Location:** Classroom 412 Drinking Fountain Flush                      **Result(ppb):** 1.30  
**Client No.:** 68                              \* Sample acidified to pH <2.

**Lab No.:** 7606482                      **Location:** Classroom 412 Sink First Draw                      **Result(ppb):** 1.10  
**Client No.:** 69                              \* Sample acidified to pH <2.

**Lab No.:** 7606483                      **Location:** Classroom 412 Sink Flush                      **Result(ppb):** 1.40  
**Client No.:** 70                              \* Sample acidified to pH <2.

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

Date Received: 4/24/2023  
Date Analyzed: 05/02/2023  
Signature:   
Analyst: Mark Stewart

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: 5/2/2023  
Report No.: 682304 - Lead Water  
Project: Universal Charter School - Creighton  
Project No.: 704-002-5

Client: SYN177

## 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](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

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

### Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:

- ASTM D3559-08D

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

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

- USEPA 40CFR 141.11B

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

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

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

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

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

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

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CERTIFICATE OF ANALYSIS

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Client: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Client: SYN177

Report Date: 5/2/2023  
Report No.: 682304 - Lead Water  
Project: Universal Charter School - Creighton  
Project No.: 704-002-5

**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 Lead in Potable Drinking Water Samples via US EPA 200.9

RECEIVED

Project Name: Universal Charter School – Creighton

Project No: 704-002-5

State Sampled: Pennsylvania

Laboratory: iATL

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2-Week TAT

APR 24 2023

Samples Collected By: R. Hutzel

Date/Time: 04/18/2023

Transmitted to Lab By: [Signature]

Date/Time: 4/24/23

Received in Lab By: [Signature]

Date/Time: [Signature]

Samples Analyzed By: AMS 5/1/23

Date/Time: [Signature]

025/3/23

SAMPLE #	LOCATION		REMARKS
01	Kitchen – Left Sink (Wash)	7606414	First Draw
02	Kitchen – Left Sink (Wash)	7606415	Flush
03	Kitchen – Right Sink (Rinse)	7606416	First Draw
04	Kitchen – Right Sink (Rinse)	7606417	Flush
05	Drinking Fountain o/s Boys' Restroom	7606418	First Draw
06	Drinking Fountain o/s Boys' Restroom	7606419	Flush
07	Bottle Filler o/s Boys' Restroom	7606420	First Draw
08	Bottle Filler o/s Boys' Restroom	7606421	Flush
09	Drinking Fountain o/s Room 104	7606422	First Draw
10	Drinking Fountain o/s Room 104	7606423	Flush
11	Bottle Filler o/s Room 104	7606424	First Draw
12	Bottle Filler o/s Room 104	7606425	Flush
13	Drinking Fountain o/s Room 204	7606426	First Draw
14	Drinking Fountain o/s Room 204	7606427	Flush
15	Drinking Fountain o/s Room 207	7606428	First Draw
16	Drinking Fountain o/s Room 207	7606429	Flush
17	Bottle Filler o/s Room 207	7606430	First Draw
18	Bottle Filler o/s Room 207	7606431	Flush
19	Drinking Fountain o/s Room 304	7606432	First Draw
20	Drinking Fountain o/s Room 304	7606433	Flush
21	Bottle Filler o/s Room 304	7606434	First Draw
22	Bottle Filler o/s Room 304	7606435	Flush

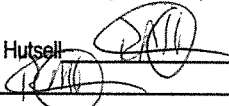



## Chain of Custody Transmittal Lead in Potable Drinking Water Samples via US EPA 200.9

Project Name: Universal Charter School – Creighton Project No: 704-002-5

State Sampled: Pennsylvania Laboratory: iATL

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

Samples Collected By: R. Hutsell  Date/Time: 04/15/2023 4/18/23 7:12G  
 Transmitted to Lab By:  Date/Time: 4/17/23  
 Received in Lab By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Samples Analyzed By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

SAMPLE #	LOCATION		REMARKS
23	Drinking Fountain o/s Room 307	7606436	First Draw
24	Drinking Fountain o/s Room 307	7606437	Flush
25	Bottle Filler o/s Room 307	7606438	First Draw
26	Bottle Filler o/s Room 307	7606439	Flush
27	Classroom 401 Drinking Fountain	7606440	First Draw
28	Classroom 401 Drinking Fountain	7606441	Flush
29	Classroom 401 Sink	7606442	First Draw
30	Classroom 401 Sink	7606443	Flush
31	Classroom 402 Drinking Fountain	7606444	First Draw
32	Classroom 402 Drinking Fountain	7606445	Flush
33	Classroom 402 Sink	7606446	First Draw
34	Classroom 402 Sink	7606447	Flush
35	Classroom 403 Drinking Fountain	7606448	First Draw
36	Classroom 403 Drinking Fountain	7606449	Flush
37	Classroom 403 Sink	7606450	First Draw
38	Classroom 403 Sink	7606451	Flush
39	Kitchen Sink (Left)	7606452	First Draw
40	Kitchen Sink (Left)	7606453	Flush
41	Kitchen Sink (Right)	7606454	First Draw
42	Kitchen Sink (Right)	7606455	Flush
43	Drinking Fountain o/s Restrooms (Left)	7606456	First Draw
44	Drinking Fountain o/s Restrooms (Left)	7606457	Flush



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

Project Name: Universal Charter School – Creighton

Project No: 704-002-5

State Sampled: Pennsylvania

Laboratory: iATL

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2-Week TAT

Samples Collected By: R. Hutsell

Date/Time: 04/13/2023 *Y(8/2) exp 11/27*

Transmitted to Lab By: \_\_\_\_\_

Date/Time: 4/14/23

Received in Lab By: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Samples Analyzed By: \_\_\_\_\_

Date/Time: \_\_\_\_\_

SAMPLE #	LOCATION	REMARKS
45	Bottle Filler o/s Restrooms (Left) 7606458	First Draw
46	Bottle Filler o/s Restrooms (Left) 7606459	Flush
47	Drinking Fountain o/s Restrooms (Right) 7606460	First Draw
48	Drinking Fountain o/s Restrooms (Right) 7606461	Flush
49	Bottle Filler o/s Restrooms (Right) 7606462	First Draw
50	Bottle Filler o/s Restrooms (Right) 7606463	Flush
51	Classroom 405 Drinking Fountain 7606464	First Draw
52	Classroom 405 Drinking Fountain 7606465	Flush
53	Classroom 405 Sink 7606466	First Draw
54	Classroom 405 Sink 7606467	Flush
55	Classroom 408 Drinking Fountain 7606468	First Draw
56	Classroom 408 Drinking Fountain 7606469	Flush
57	Classroom 408 Sink 7606470	First Draw
58	Classroom 408 Sink 7606471	Flush
59	Classroom 409 Drinking Fountain 7606472	First Draw
60	Classroom 409 Drinking Fountain 7606473	Flush
61	Classroom 409 Sink 7606474	First Draw
62	Classroom 409 Sink 7606475	Flush
63	Classroom 411 Drinking Fountain 7606476	First Draw
64	Classroom 411 Drinking Fountain 7606477	Flush
65	Classroom 411 Sink 7606478	First Draw
66	Classroom 411 Sink 7606479	Flush

