SYNERTECH
ENVIRONMENTAL LLC

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May 08, 2024

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

Re: Summary Report for Lead in Water Sampling
Universal Companies – Universal Creighton Charter School
Philadelphia, Pennsylvania
Synertech Project No. 704-003-3

Dear Mr. Threadgill:

I. Executive Summary

At your request, on April 12, 2024, *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 sixty-six (66) samples were collected from thirty-three (33) 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 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. 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-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 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	Drinking Fountain O/S Room 104	WF	First			<1.00
08	Drinking Fountain O/S Room 104	WF	Flush			<1.00
09	Drinking Fountain O/S Room 207	WF	First			<1.00
10	Drinking Fountain O/S Room 207	WF	Flush			<1.00
11	Bottle Filler O/S Room 207	HS	First			<1.00
12	Bottle Filler O/S Room 207	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 307	WF	First			<1.00
16	Drinking Fountain O/S Room 307	WF	Flush			<1.00

Lead in Drinking Water (*Continued*)						
Sample #	**Location**	**Outlet Type**	**Draw**	**Sampling Method**	**CoP Action Level (AL)**	**Results (ppb)**
17	Bottle Filler O/S Room 307	HS	First	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<1.00
18	Bottle Filler O/S Room 307	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	Kitchen Sink – Left	Sink	First			<1.00
24	Kitchen Sink – Left	Sink	Flush			<1.00
25	Kitchen Sink – Right	Sink	First			<1.00
26	**Kitchen Sink – Right**	**Sink**	**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**			**3.00**
30	**Classroom 401 Sink**	**Sink**	**Flush**			**2.30**
31	Classroom 402 Drinking Fountain	WF	First			<1.00
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	Drinking Fountain O/S Restrooms (Left)	WF	First			<1.00
40	Drinking Fountain O/S Restrooms (Left)	WF	Flush			<1.00
41	Bottle Filler O/S Restrooms (Left)	HS	First			<1.00
42	Bottle Filler O/S Restrooms (Left)	HS	Flush			<1.00
43	Drinking Fountain O/S Restrooms (Right)	WF	First			<1.00
44	Drinking Fountain O/S Restrooms (Right)	WF	Flush			<1.00
45	Bottle Filler O/S Restrooms (Right)	HS	First			<1.00
46	Bottle Filler O/S Restrooms (Right)	HS	Flush			<1.00
47	Classroom 405 Drinking Fountain	WF	First			<1.00
48	Classroom 405 Drinking Fountain	WF	Flush			<1.00
49	**Classroom 405 Sink**	**Sink**	**First**			**1.40**
50	**Classroom 405 Sink**	**Sink**	**Flush**			**1.40**
51	Classroom 408 Drinking Fountain	WF	First			<1.00
52	Classroom 408 Drinking Fountain	WF	Flush			<1.00
53	**Classroom 408 Sink**	**Sink**	**First**			**1.70**
54	Classroom 408 Sink	Sink	Flush			<1.00
55	Classroom 409 Drinking Fountain	WF	First			<1.00
56	Classroom 409 Drinking Fountain	WF	Flush			<1.00
57	Classroom 409 Sink	Sink	First			<1.00
58	Classroom 409 Sink	Sink	Flush			<1.00
59	Classroom 411 Drinking Fountain	WF	First			<1.00
60	Classroom 411 Drinking Fountain	WF	Flush			<1.00
61	**Classroom 411 Sink**	**Sink**	**First**			**1.70**
62	Classroom 411 Sink	Sink	Flush			<1.00
63	Classroom 410 Dinking Fountain	WF	First			<1.00
64	Classroom 410 Drinking Fountain	WF	Flush			<1.00
65	**Classroom 410 Sink**	**Sink**	**First**			**1.90**
66	Classroom 410 Sink	Sink	Flush			<1.00
	Bottle Filler O/S Boy's Restroom – Out of service at time of sampling event.					
	Bottle Filler O/S Room 104 – Out of service at time of sampling event.					

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. Summary of Results

The laboratory data indicates that **all the results are below the Action Level of 10 ppb and no 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 outlets where low concentrations of lead were reported include:

- Sample 26: Kitchen Sink – Right Side
- Sample 29: Classroom 401 Sink
- Sample 30: Classroom 401 Sink
- Sample 49: Classroom 405 Sink
- Sample 50: Classroom 405 Sink
- Sample 53: Classroom 408 Sink
- Sample 61: Classroom 411 Sink
- Sample 65: Classroom 410 Sink

The water at these locations 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

Eric Belfi
Industrial Hygiene Technician, Managing Partner

Attachment #1

Laboratory Certificates of Analysis
&
Chain of Custody Forms

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 4/25/2024
Report No.: 698973 - Lead Water
Project: Universal Charter School: Creighton
Project No.: 704-003-03

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7749453 **Client No.:**01	**Location:**Kitchen Left Sink (Wash) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749454 **Client No.:**02	**Location:**Kitchen Left Sink (Wash) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749455 **Client No.:**03	**Location:**Kitchen Right Sink (Rinse) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749456 **Client No.:**04	**Location:**Kitchen Right Sink (Rinse) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749457 **Client No.:**05	**Location:**Drinking Fountain O/S Boy's Restroom * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749458 **Client No.:**06	**Location:**Drinking Fountain O/S Boy's Restroom * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749459 **Client No.:**07	**Location:**Drinking Fountain O/S Room 104 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749460 **Client No.:**08	**Location:**Drinking Fountain O/S Room 104 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749461 **Client No.:**09	**Location:**Drinking Fountain O/S Room 207 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749462 **Client No.:**10	**Location:**Drinking Fountain O/S Room 207 * 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: 4/16/2024
Date Analyzed: 04/25/2024
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7749463 **Client No.:**11	**Location:**Bottle Filler O/S Room 207 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749464 **Client No.:**12	**Location:**Bottle Filler O/S Room 207 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749465 **Client No.:**13	**Location:**Drinking Fountain O/S Room 204 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749466 **Client No.:**14	**Location:**Drinking Fountain O/S Room 204 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749467 **Client No.:**15	**Location:**Drinking Fountain O/S Room 307 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749468 **Client No.:**16	**Location:**Drinking Fountain O/S Room 307 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749469 **Client No.:**17	**Location:**Bottle Filler O/S Room 307 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749470 **Client No.:**18	**Location:**Bottle Filler O/S Room 307 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749471 **Client No.:**19	**Location:**Drinking Fountain O/S Room 304 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749472 **Client No.:**20	**Location:**Drinking Fountain O/S Room 304 * Sample acidified to pH <2.	**Result(ppb):**<1.00

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7749473 **Client No.:**21	**Location:**Bottle Filler O/S Room 304 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749474 **Client No.:**22	**Location:**Bottle Filler O/S Room 304 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749475 **Client No.:**23	**Location:**Kitchen Sink (Left) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749476 **Client No.:**24	**Location:**Kitchen Sink (Left) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749477 **Client No.:**25	**Location:**Kitchen Sink (Right) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749478 **Client No.:**26	**Location:**Kitchen Sink (Right) * Sample acidified to pH <2.	**Result(ppb):**1.00
Lab No.:7749479 **Client No.:**27	**Location:**Classroom 401 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749480 **Client No.:**28	**Location:**Classroom 401 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749481 **Client No.:**29	**Location:**Classroom 401 Sink * Sample acidified to pH <2.	**Result(ppb):**3.00
Lab No.:7749482 **Client No.:**30	**Location:**Classroom 401 Sink * Sample acidified to pH <2.	**Result(ppb):**2.30

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

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Signature: Chad Shaffer
Analyst: Chad Shaffer

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7749483 **Client No.:**31	**Location:**Classroom 402 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749484 **Client No.:**32	**Location:**Classroom 402 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749485 **Client No.:**33	**Location:**Classroom 402 Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749486 **Client No.:**34	**Location:**Classroom 402 Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749487 **Client No.:**35	**Location:**Classroom 403 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749488 **Client No.:**36	**Location:**Classroom 403 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749489 **Client No.:**37	**Location:**Classroom 403 Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749490 **Client No.:**38	**Location:**Classroom 403 Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749491 **Client No.:**39	**Location:**Drinking Fountain O/S Restroom (Left) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749492 **Client No.:**40	**Location:**Drinking Fountain O/S Restroom (Left) * Sample acidified to pH <2.	**Result(ppb):**<1.00

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7749493 **Client No.:**41	**Location:**Bottle Filler O/S Restroom (Left) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749494 **Client No.:**42	**Location:**Bottle Filler O/S Restroom (Left) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749495 **Client No.:**43	**Location:**Drinking Fountain O/S Restroom (Right) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749496 **Client No.:**44	**Location:**Drinking Fountain O/S Restroom (Right) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749497 **Client No.:**45	**Location:**Bottle Filler O/S Restroom (Right) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749498 **Client No.:**46	**Location:**Bottle Filler O/S Restroom (Right) * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749499 **Client No.:**47	**Location:**Classroom 405 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749500 **Client No.:**48	**Location:**Classroom 405 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749501 **Client No.:**49	**Location:**Classroom 405 Sink * Sample acidified to pH <2.	**Result(ppb):**1.40
Lab No.:7749502 **Client No.:**50	**Location:**Classroom 405 Sink * Sample acidified to pH <2.	**Result(ppb):**1.40

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7749503 **Client No.:**51	**Location:**Classroom 408 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749504 **Client No.:**52	**Location:**Classroom 408 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749505 **Client No.:**53	**Location:**Classroom 408 Sink * Sample acidified to pH <2.	**Result(ppb):**1.70
Lab No.:7749506 **Client No.:**54	**Location:**Classroom 408 Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749507 **Client No.:**55	**Location:**Classroom 409 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749508 **Client No.:**56	**Location:**Classroom 409 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749509 **Client No.:**57	**Location:**Classroom 409 Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749510 **Client No.:**58	**Location:**Classroom 409 Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749511 **Client No.:**59	**Location:**Classroom 411 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749512 **Client No.:**60	**Location:**Classroom 411 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00

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

Date Received: 4/16/2024
Date Analyzed: 04/25/2024
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 4/25/2024
Report No.: 698973 - Lead Water
Project: Universal Charter School: Creighton
Project No.: 704-003-03

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7749513 **Client No.:**61	**Location:**Classroom 411 Sink * Sample acidified to pH <2.	**Result(ppb):**1.70
Lab No.:7749514 **Client No.:**62	**Location:**Classroom 411 Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749515 **Client No.:**63	**Location:**Classroom 410 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749516 **Client No.:**64	**Location:**Classroom 410 Drinking Fountain * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7749517 **Client No.:**65	**Location:**Classroom 410 Sink * Sample acidified to pH <2.	**Result(ppb):**1.90
Lab No.:7749518 **Client No.:**66	**Location:**Classroom 410 Sink * 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: 4/16/2024
Date Analyzed: 04/25/2024
Signature:
Analyst: Chad Shaffer

Approved By:
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Laboratory Director

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CERTIFICATE OF ANALYSIS

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	228 Moore Street	Report No.:	698973 - Lead Water
	Philadelphia PA 19148	Project:	Universal Charter School: Creighton
		Project No.:	704-003-03
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 OfficeManager: ?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 ir 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 D3559-15D

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

Client:	Synertech Environmental LLC	Report Date:	4/25/2024
	228 Moore Street	Report No.:	698973 - Lead Water
	Philadelphia PA 19148	Project:	Universal Charter School: Creighton
		Project No.:	704-003-03
Client:	SYN177		

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.gosynertech.com

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

Project Name: Universal Charter School: Creighton

Project No: 704-003-03

State Sampled: Pennsylvania

Laboratory: IATL

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2 Week TAT

RECEIVED
APR 18 2024
IATL - By

Samples Collected By:
Transmitted to Lab By:
Received in Lab By:
Samples Analyzed By: 04/24/24

Date/Time
Date/Time
Date/Time
Date/Time

SAMPLE #	LOCATION	REMARKS
01	Kitchen - Left sink (wash)	First 7749453
02	Kitchen - left sink (wash)	Flush 7749454
03	Kitchen - Right sink (rinse)	First 7749455
04	Kitchen - Right sink (rinse)	Flush 7749456
05	Drinking fountain o/s Boy's Restroom	First 7749457
06	Drinking fountain o/s Boys Restroom	Flush 7749458
07	Drinking fountain o/s room 104	First 7749459
08	Drinking fountain o/s room 104	Flush 7749460
09	Drinking fountain o/s Room 207	First 774946
10	Drinking fountain o/s Room 207	Flush 774946
11	Bottle Filler o/s room 207	First 774946
12	Bottle Filler o/s room 207	Flush 774946
13	Drinking fountain o/s room 204	First 774946
14	Drinking fountain o/s room 204	Flush 774946
15	Drinking fountain o/s room 307	First 774946
16	Drinking fountain o/s room 307	Flush 774946
17	Bottle Filler o/s room 307	First 774946
18	Bottle Filler o/s room 307	Flush 774947
19	Drinking fountain o/s room 304	First 7749471
20	Drinking fountain o/s room 304	Flush 7749472
21	Bottle Filler o/s room 304	First 7749473
22	Bottle Filler o/s room 304	Flush 7749474

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via US EPA 200.9 Pb

Project Name: Universal Charter School: Creighton

Project No: 704-003-03

State Sampled: Pennsylvania

Laboratory: IATL

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2 Week TAT

Samples Collected By: _____ Date/Time _____
Transmitted to Lab By: _____ Date/Time _____
Received in Lab By: _____ Date/Time _____
Samples Analyzed By: _____ Date/Time _____

SAMPLE #	LOCATION	REMARKS
23	Kitchen Sink (Left)	First 7749475
24	Kitchen Sink (Left)	Flush 7749476
25	Kitchen Sink (Right)	First 7749477
26	Kitchen Sink (Right)	Flush 7749478
27	Classroom 401 Drinking fountain	First 7749479
28	Classroom 401 Drinking fountain	Flush 774948[illegible]
29	Classroom 401 Sink	First 774948[illegible]
30	Classroom 401 Sink	Flush 774948[illegible]
31	Classroom 402 Drinking fountain	First 7749483
32	Classroom 402 Drinking fountain	Flush 7749484
33	Classroom 402 Sink	First 7749485
34	Classroom 402 Sink	Flush 7749486
35	Classroom 403 Drinking fountain	First 7749487
36	Classroom 403 Drinking fountain	Flush 7749488
37	Classroom 403 Sink	First 7749489
38	Classroom 403 Sink	Flush 774949[illegible]
39	Drinking fountain o/s Restroom (Left)	First 7749491
40	Drinking fountain o/s Restroom (Left)	Flush 7749492
41	Bottle Filler o/s Restroom (Left)	First 7749493
42	Bottle Filler o/s Restroom (Left)	Flush 7749494
43	Drinking fountain o/s Restroom (Right)	First 7749495
44	Drinking fountain o/s Restroom (Right)	Flush 7749496

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Potable Drinking Water Samples
via US EPA 200.9 Pb

Project Name: Universal Charter School: Creighton

Project No: 704-003-03

State Sampled: Pennsylvania

Laboratory: IATL

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2 Week TAT

Samples Collected By: _____ Date/Time _____
Transmitted to Lab By: _____ Date/Time _____
Received in Lab By: _____ Date/Time _____
Samples Analyzed By: _____ Date/Time _____

SAMPLE #	LOCATION	REMARKS
45	Bottle Filler O/S Restroom (Right)	First 7749497
46	Bottle Filler O/S Restroom (Right)	Flush 7749498
47	Classroom 405 Drinking fountain	First 7749499
48	Classroom 405 Drinking fountain	Flush 7749500
49	Classroom 405 Sink	First 7749501
50	Classroom 405 Sink	Flush 7749502
51	Classroom 408 Drinking Fountain	First 7749503
52	Classroom 408 Drinking fountain	Flush 7749504
53	Classroom 408 Sink	First 7749505
54	Classroom 408 Sink	Flush 7749506
55	Classroom 409 Drinking Fountain	First 7749507
56	Classroom 409 Drinking fountain	Flush 7749508
57	Classroom 409 Sink	First 7749509
58	Classroom 409 Sink	Flush 7749510
59	Classroom 411 Drinking Fountain	First 7749511
60	Classroom 411 Drinking Fountain	Flush 7749512
61	Classroom 411 Sink	First 7749513
62	Classroom 411 Sink	Flush 7749514
63	Classroom 410 Drinking fountain	First 7749515
64	Classroom 410 Drinking fountain	Flush 7749516
65	Classroom 410 Sink	First 7749517
66	Classroom 410 Sink	Flush 7749518

Cleared 04/18/24 1045

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SAMPLE #	LOCATION	REMARKS

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