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 Vare Charter School
Philadelphia, Pennsylvania
Synertech Project No. 704-003-05

Dear Mr. Threadgill:

I. Executive Summary

At your request, on April 19, 2024, *Synertech Environmental, LLC* performed lead in water sampling at the Universal Vare Charter School, which is located at 1901 South 23rd 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 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-four (74) samples were collected from thirty-seven (37) sink, 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/L), 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	Right Water Fountain by Boys' Restroom		First	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<1.00
02	Right Water Fountain by Boys' Restroom		Flush			<1.00
03	Right Water Fountain Bottle Filler by Boys' Restroom		First			<1.00
04	Right Water Fountain Bottle Filler by Boys' Restroom		Flush			<1.00
05	Right Water Fountain Bubbler		First			<1.00
06	Right Water Fountain Bubbler		Flush			<1.00
07	Left Water Fountain Bubbler		First			<1.00
08	Left Water Fountain Bubbler		Flush			<1.00
09	**Hand Wash Sink in Kitchen**		**First**			**105**
10	**Hand Wash Sink in Kitchen**		**Flush**			**4.00**
11	Right Sink in Kitchen		First			<1.00
12	Right Sink in Kitchen		Flush			<1.00
13	**Left Sink in Kitchen**		**First**			**1.20**
14	Left Sink in Kitchen		Flush			<1.00
15	Nurse's Office Sink		First			<1.00
16	Nurse's Office Sink		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 (*Continued*)						
Sample #	**Location**	**Outlet Type**	**Draw**	**Sampling Method**	**CoP Action Level (AL)**	**Results (ppb)**
17	**Nurse's Office Restroom Sink**		**First**	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	**1.70**
18	Nurse's Office Restroom Sink		Flush			<1.00
19	Water Fountain – Bubbler by Library		First			<1.00
20	Water Fountain – Bubbler by Library		Flush			<1.00
21	Water Fountain – Bottle Filler by Library		First			<1.00
22	Water Fountain – Bottle Filler by Library		Flush			<1.00
23	**Classroom K2 Sink**		**First**			**4.70**
24	Classroom K2 Sink		Flush			<1.00
25	**Classroom K3 Sink**		**First**			**1.10**
26	Classroom K3 Sink		Flush			<1.00
27	Classroom K2 Restroom Sink		First			<1.00
28	Classroom K2 Restroom Sink		Flush			<1.00
29	Classroom K3 Restroom Sink		First			<1.00
30	Classroom K3 Restroom Sink		Flush			<1.00
31	Classroom 101 Sink		First			<1.00
32	Classroom 101 Sink		Flush			<1.00
33	Classroom 101 Restroom Sink		First			<1.00
34	Classroom 101 Restroom Sink		Flush			<1.00
35	Classroom 103 Sink		First			<1.00
36	Classroom 103 Sink		Flush			<1.00
37	**Classroom 103 Restroom Sink**		**First**			**1.20**
38	**Classroom 103 Restroom Sink**		**Flush**			**1.60**
39	**Classroom 209 Sink**		**First**			**3.80**
40	Classroom 209 Sink		Flush			<1.00
41	Classroom 215 Sink		First			<1.00
42	Classroom 215 Sink		Flush			<1.00
43	**Classroom 213 Sink**		**First**			**44.9**
44	**Classroom 213 Sink**		**Flush**			**7.80**
45	**Classroom 213 Restroom Sink**		**First**			**3.90**
46	Classroom 213 Restroom Sink		Flush			<1.00
47	Water Fountain Bubbler by Room 208		First			<1.00
48	Water Fountain Bubbler by Room 208		Flush			<1.00
49	Water Fountain Bottle Filler by Room 208		First			<1.00
50	Water Fountain Bottle Filler by Room 208		Flush			<1.00
51	**Classroom 208 Sink**		**First**			**1.40**
52	Classroom 208 Sink		Flush			<1.00
53	Classroom 206 Sink		First			<1.00
54	Classroom 206 Sink		Flush			<1.00
55	Classroom 207 Sink		First			<1.00
56	Classroom 207 Sink		Flush			<1.00
57	**Classroom 307 Sink**		**First**			**50.4**
58	**Classroom 307 Sink**		**Flush**			**1.50**
59	**Classroom 308 Sink**		**First**			**1.60**
60	Classroom 308 Sink		Flush			<1.00
61	Water Fountain Bubbler by Room 308		First			<1.00
62	Water Fountain Bubbler by Room 308		Flush			<1.00
63	Water Fountain Bottle Filler by Room 308		First			<1.00
64	Water Fountain Bottle Filler by Room 308		Flush			<1.00
65	Water Fountain Right Bubbler by Room 309		First			<1.00
66	Water Fountain Right Bubbler by Room 309		Flush			<1.00
67	Water Fountain Left Bubbler by Room 309		First			<1.00
68	Water Fountain Left Bubbler by Room 309		Flush			<1.00

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

Lead in Drinking Water (*Continued*)						
Sample #	**Location**	**Outlet Type**	**Draw**	**Sampling Method**	**CoP Action Level (AL)**	**Results (ppb)**
69	Classroom 309 Sink		First	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<1.00
70	Classroom 309 Sink		Flush			<1.00
71	**Classroom 312 Sink**		**First**			**6.50**
72	Classroom 312 Sink		Flush			<1.00
73	**Classroom 313 Sink**		**First**			**2.10**
74	Classroom 313 Sink		Flush			<1.00

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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

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 09: Hand Wash Sink in Kitchen**
- **Sample 43: Classroom 213 Sink**
- **Sample 57: Classroom 307 Sink.**

These 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 also recommends posting such signs at each water outlet throughout the building that are not intended for drinking (i.e., bathroom sinks, hand wash sinks, art room sinks and science room sinks)**.

2. Consult a licensed and insured plumbing contractor to determine the source of the elevated sample results. Potential sources of lead contamination are as follows:

   ii. Water service lines;
   iii. Lead soldered joints and fittings;
   iv. Lead faucets/fixtures.

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

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

- Sample 10: Hand Wash Sink in Kitchen
- Sample 13: Left Sink in Kitchen
- Sample 17: Nurse's Office Restroom Sink
- Sample 23: Classroom K2 Sink
- Sample 23: Classroom K2 Sink
- Sample 25: Classroom K3 Sink
- Sample 37: Classroom 103 Restroom Sink
- Sample 38: Classroom 103 Restroom Sink
- Sample 39: Classroom 209 Sink
- Sample 44: Classroom 213 Sink
- Sample 45: Classroom 213 Sink
- Sample 51: Classroom 208 Sink
- Sample 58: Classroom 307 Sink
- Sample 59: Classroom 308 Sink
- Sample 71: Classroom 312 Sink
- Sample 73: Classroom 313 Sink

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: 5/1/2024
Report No.: 699083 - Lead Water
Project: Universal Charter School: Vare
Project No.: 704-003-05

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7750051 **Client No.:**01	**Location:**Right Water Fountain Bubbler By Boys R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750052 **Client No.:**02	**Location:**Right Water Fountain Bubbler By Boys R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750053 **Client No.:**03	**Location:**Right Water Fountain Bottle Filler By Boys R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750054 **Client No.:**04	**Location:**Right Water Fountain Bottle Filler By Boys R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750055 **Client No.:**05	**Location:**Right Water Fountain Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750056 **Client No.:**06	**Location:**Right Water Fountain Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750057 **Client No.:**07	**Location:**Left Water Fountain Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750058 **Client No.:**08	**Location:**Left Water Fountain Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750059 **Client No.:**09	**Location:**Hand Wash Sink In Kitchen * Sample acidified to pH <2.	**Result(ppb):**105
Lab No.:7750060 **Client No.:**10	**Location:**Hand Wash Sink In Kitchen * Sample acidified to pH <2.	**Result(ppb):**4.00

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

Date Received: 4/19/2024
Date Analyzed: 04/30/2024
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 5/1/2024
Report No.: 699083 - Lead Water
Project: Universal Charter School: Vare
Project No.: 704-003-05

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7750061 **Client No.:**11	**Location:**Right Sink In Kitchen * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750062 **Client No.:**12	**Location:**Right Sink In Kitchen * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750063 **Client No.:**13	**Location:**Left Sink In Kitchen * Sample acidified to pH <2.	**Result(ppb):**1.20
Lab No.:7750064 **Client No.:**14	**Location:**Left Sink In Kitchen * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750065 **Client No.:**15	**Location:**Nurse's Office Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750066 **Client No.:**16	**Location:**Nurse's Office Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750067 **Client No.:**17	**Location:**Nurse's Office R.R Sink * Sample acidified to pH <2.	**Result(ppb):**1.70
Lab No.:7750068 **Client No.:**18	**Location:**Nurse's Office R.R Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750069 **Client No.:**19	**Location:**Water Fountain By Library Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750070 **Client No.:**20	**Location:**Water Fountain By Library Bubbler * 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: 4/19/2024
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Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 5/1/2024
Report No.: 699083 - Lead Water
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7750071 **Client No.:**21	**Location:**Water Fountain By Library Bottle Filler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750072 **Client No.:**22	**Location:**Water Fountain By Library Bottle Filler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750073 **Client No.:**23	**Location:**Classroom K2 Sink * Sample acidified to pH <2.	**Result(ppb):**4.70
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.		
Lab No.:7750074 **Client No.:**24	**Location:**Classroom K2 Sink * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750075 **Client No.:**25	**Location:**Classroom K3 * Sample acidified to pH <2.	**Result(ppb):**1.10
Lab No.:7750076 **Client No.:**26	**Location:**Classroom K3 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750077 **Client No.:**27	**Location:**Classroom K2 R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750078 **Client No.:**28	**Location:**Classroom K2 R.R * 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: 4/19/2024
Date Analyzed: 04/30/2024
Signature:
Analyst: Chad Shaffer

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Report Date: 5/1/2024
Report No.: 699083 - Lead Water
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Project No.: 704-003-05

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7750079 **Client No.:**29	**Location:**Classroom K3 R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750080 **Client No.:**30	**Location:**Classroom K3 R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750081 **Client No.:**31	**Location:**Classroom 101 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750082 **Client No.:**32	**Location:**Classroom 101 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750083 **Client No.:**33	**Location:**Classroom 101 R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750084 **Client No.:**34	**Location:**Classroom 101 R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750085 **Client No.:**35	**Location:**Classroom 103 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750086 **Client No.:**36	**Location:**Classroom 103 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750087 **Client No.:**37	**Location:**Classroom 103 R.R * Sample acidified to pH <2.	**Result(ppb):**1.20
Lab No.:7750088 **Client No.:**38	**Location:**Classroom 103 R.R * Sample acidified to pH <2.	**Result(ppb):**1.60

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Date Received: 4/19/2024
Date Analyzed: 05/01/2024
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7750089 **Client No.:**39	**Location:**Classroom 209 * Sample acidified to pH <2.	**Result(ppb):**3.80
Lab No.:7750090 **Client No.:**40	**Location:**Classroom 209 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750091 **Client No.:**41	**Location:**Classroom 215 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750092 **Client No.:**42	**Location:**Classroom 215 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750093 **Client No.:**43	**Location:**Classroom 213 * Sample acidified to pH <2.	**Result(ppb):**44.9
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.		
Lab No.:7750094 **Client No.:**44	**Location:**Classroom 213 * Sample acidified to pH <2.	**Result(ppb):**7.80
Lab No.:7750095 **Client No.:**45	**Location:**Classroom 213 R.R * Sample acidified to pH <2.	**Result(ppb):**3.90
Lab No.:7750096 **Client No.:**46	**Location:**Classroom 213 R.R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750097 **Client No.:**47	**Location:**Water Fountain By 208 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750098 **Client No.:**48	**Location:**Water Fountain By 208 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00

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Project No.: 704-003-05

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7750099 **Client No.:**49	**Location:**Water Fountain By 208 Bottle Filler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750100 **Client No.:**50	**Location:**Water Fountain By 208 Bottle Filler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750101 **Client No.:**51	**Location:**Classroom 208 * Sample acidified to pH <2.	**Result(ppb):**1.40
Lab No.:7750102 **Client No.:**52	**Location:**Classroom 208 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750103 **Client No.:**53	**Location:**Classroom 206 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750104 **Client No.:**54	**Location:**Classroom 206 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750105 **Client No.:**55	**Location:**Classroom 207 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750106 **Client No.:**56	**Location:**Classroom 207 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750107 **Client No.:**57	**Location:**Classroom 307 * Sample acidified to pH <2.	**Result(ppb):**50.4
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.		
Lab No.:7750108 **Client No.:**58	**Location:**Classroom 307 * Sample acidified to pH <2.	**Result(ppb):**1.50

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

Date Received: 4/19/2024
Date Analyzed: 05/01/2024
Signature: Chad Shaffer
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: 5/1/2024
Report No.: 699083 - Lead Water
Project: Universal Charter School: Vare
Project No.: 704-003-05

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7750109 **Client No.:**59	**Location:**Classroom 308 * Sample acidified to pH <2.	**Result(ppb):**1.60
Lab No.:7750110 **Client No.:**60	**Location:**Classroom 308 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750111 **Client No.:**61	**Location:**Water Fountain By 308 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750112 **Client No.:**62	**Location:**Water Fountain By 308 Bubbler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750113 **Client No.:**63	**Location:**Water Fountain By 308 Bottle Filler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750114 **Client No.:**64	**Location:**Water Fountain By 308 Bottle Filler * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750115 **Client No.:**65	**Location:**Water Fountain Right By 309 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750116 **Client No.:**66	**Location:**Water Fountain Right By 309 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750117 **Client No.:**67	**Location:**Water Fountain Left By 309 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750118 **Client No.:**68	**Location:**Water Fountain Left By 309 * 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: 4/19/2024
Date Analyzed: 05/01/2024
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 5/1/2024
Report No.: 699083 - Lead Water
Project: Universal Charter School: Vare
Project No.: 704-003-05

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7750119 **Client No.:**69	**Location:**Classroom 309 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750120 **Client No.:**70	**Location:**Classroom 309 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750121 **Client No.:**71	**Location:**Classroom 312 * Sample acidified to pH <2.	**Result(ppb):**6.50
Lab No.:7750122 **Client No.:**72	**Location:**Classroom 312 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7750123 **Client No.:**73	**Location:**Classroom 313 * Sample acidified to pH <2.	**Result(ppb):**2.10
Lab No.:7750124 **Client No.:**74	**Location:**Classroom 313 * 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: 4/19/2024
Date Analyzed: 05/01/2024
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client:	Synertech Environmental LLC	Report Date:	5/1/2024
	228 Moore Street	Report No.:	699083 - Lead Water
	Philadelphia PA 19148	Project:	Universal Charter School: Vare
		Project No.:	704-003-05
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:	5/1/2024
	228 Moore Street	Report No.:	699083 - Lead Water
	Philadelphia PA 19148	Project:	Universal Charter School: Vare
		Project No.:	704-003-05
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: Vare

Project No: 704-003-05

State Sampled: Pennsylvania

RECEIVED

Laboratory: IATL

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2 Week TAT

Samples Collected By: [signature]
Transmitted to Lab By: [signature] APR 19 2024
Received in Lab By:
Samples Analyzed By: [signature]

Date/Time 4/19/24
Date/Time 4/19/24
Date/Time
Date/Time

IATL By [signature]

SAMPLE #	LOCATION	REMARKS
01	Right water fountain bubbler by boys R.R	First Draw 7750051
02	Right watr fountain bubbler by boys R.R	Flush 7750052
03	Right water fountain Bottle Filler by boys R.R	First Draw 7750053
04	Right watr fountan Bottle Filler by boys R.R	Flush 7750054
05	Right water fountain Bubbler	First Draw 7750055
06	Right water fountan Bubbler	Flush 7750056
07	Left water fountain Bubbler	First Draw 7750057
08	Left watr fountain Bubbler	Flush 7750058
09	Hand wash sink in kitchen	First Draw 7750059
10	Hand wash sink in kitchen	Flush 7750060
11	Right sink in kitchen	First Draw 7750061
12	Right sink in kitchen	Flush 7750062
13	Left sink in kitchen	First Draw 7750063
14	Left sink in kitchen	Flush 7750064
15	nurse's office sink	First Draw 7750065
16	nurse's office sink	Flush 7750066
17	nurse's office R.R sink	First Draw 7750067
18	nurse's office R.R sink	Flush 7750068
19	Water fountain by library Bubbler	First Draw 7750069
20	water fountain by library Bubbler	Flush 7750070
21	water fountain by library Bottle Filler	First Draw 7750071
22	water fountain by library Bottle Filler	Flush 7750072

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

Project Name: Universal Charter School: Vare

Project No: 704-003-05

State Sampled: Pennsylvania

Laboratory: IATL

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2 Week TAT

Samples Collected By: SL — Date/Time 4/19/24
Transmitted to Lab By: SL — Date/Time 4/19/24
Received in Lab By: _____ Date/Time _____
Samples Analyzed By: _____ Date/Time _____

SAMPLE #	LOCATION	REMARKS
23	Classroom K2 Sink	FD 7750073
24	Classroom K2 Sink	Flush 7750074
25	Classroom K3	FD 7750075
26	Classroom K3	Flush 7750076
27	Classroom K2 R.R	FD 7750077
28	Classroom K2 R.R	Flush 7750078
29	Classroom K3 R.R	First Draw 7750079
30	Classroom K3 R.R	Flush 7750080
31	Classroom 101	First Draw 7750081
32	Classroom 101	Flush 7750082
33	Classroom 101 R.R	First Draw 7750083
34	Classroom 101 R.R	Flush 7750084
35	Classroom 103	First Draw 7750085
36	classroom 103	Flush 7750086
37	Classroom 103 R.R	First Draw 7750087
38	Classroom 103 R.R.	Flush 7750088
39	Classroom 209	First Draw 7750089
40	Classroom 209	Flush 7750090
41	Classroom 215	First Draw 7750091
42	Classroom 215	Flush 7750092
43	Classroom 213	First Draw 7750093
44	Classroom 213	Flush 7750094

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

Project Name: Universal Charter School: Vare

Project No: 704-003-05

State Sampled: Pennsylvania

Laboratory: IATL

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2 Week TAT

Samples Collected By: SL — Date/Time 4/19/24
Transmitted to Lab By: SL — Date/Time 4/19/24
Received in Lab By: — Date/Time
Samples Analyzed By: — Date/Time

SAMPLE #	LOCATION	REMARKS
45	Classroom 213 R.R	First Draw 7750095
46	Classroom 213 R.R	Flush 7750096
47	water fountain by 208 bubbler	First Draw 7750097
48	water fountain by 208 bubbler	Flush 7750098
49	water fountain by 208 bottle Filler	First Draw 7750099
50	water fountain by 208 bottle Filler	Flush 7750100
51	Classroom 208	First Draw 7750101
52	classroom 208	Flush 7750102
53	Classroom 206	First Draw 7750103
54	Classroom 206	Flush 7750104
55	Classroom 207	First Draw 7750105
56	Classroom 207	Flush 7750106
57	classroom 307	First Draw 7750107
58	Classroom 307	Flush 7750108
59	Classroom 308	First Draw 7750109
60	Classroom 308	Flush 7750110
61	water fountain by 308 Bubbler	First Draw 7750111
62	water fountain by 308 Bubbler	Flush 7750112
63	water fountain by 308 Bottle Filler	First Draw 7750113
64	water fountain by 308 Bottle Filler	Flush 7750114
65	water fountain Right by 309	First Draw 7750115
66	water fountain Right by 309	Flush 7750116

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

Project Name: Universal Charter School: Vare

Project No: 704-003-05

State Sampled: Pennsylvania

Laboratory: IATL

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2 Week TAT

Samples Collected By: [signature] Date/Time 4/19/24
Transmitted to Lab By: [signature] Date/Time 4/19/24
Received in Lab By: Date/Time
Samples Analyzed By: Date/Time

SAMPLE #	LOCATION	REMARKS
67	water fountain Left by 309	First Draw 7750117
68	water fountain Left by 309	Flush 7750118
69	Classroom 309	First Draw 7750119
70	Classroom 309	Flush 7750120
71	Classroom 312	First Draw 7750121
72	Classroom 312	Flush 7750122
73	Classroom 313	First Draw 7750123
74	Classroom 313	Flush 7750124
	J.C. Sent @ 1606 4/22/24	