Summary Report for Lead in Water Sampling

at the

Universal Alcorn Charter School

3200 Dickinson Street, Philadelphia, Pa

Prepared for

Lawerence Threadgill
Universal Companies
1427 Catharine Street, 4th Floor
Philadelphia, Pennsylvania 19146

Prepared by

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PO Box 8574, Turnersville, NJ 08012
EPA Lead Safe Certified Firm #NAT-F273209-1
PA Lead Risk Assessor #004799

FIG Project ID: C-25-062
August 2025

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Introduction

On August 6, 2025, water sampling was performed as part of an ongoing lead-in-drinking-water monitoring program designed to assess, document, and verify compliance with acceptable water quality standards at all accessible potable water outlets within the K–8 charter school facility. The scope of work included the collection and laboratory analysis of water samples for lead concentration.

This report provides a detailed summary of the sampling methodology and sampling results.

Understanding Lead in Drinking Water

Lead is a metal that can be found in natural deposits, but most lead in drinking water comes from plumbing materials — like pipes, faucets, and fixtures — rather than from the water source itself. It can get into drinking water when these materials corrode, especially in older homes or buildings.

Buildings built before 1986 are more likely to have pipes, solder, or fixtures made with lead. But even newer buildings aren't completely safe — plumbing labeled "lead-free" could still have small amounts of lead. Brass faucets or chrome-plated fixtures are common sources, especially when hot water is used.

When lead is found in drinking water, the resolution may involve replacing parts of the plumbing system with lead-free materials.

There is no safe level of lead exposure. Even small amounts can affect your health. Lead is a toxic metal that adversely affects the nervous system in both children and adults. Prolonged exposure may impair cognitive function and other neurological processes. In adults, particularly those who are middle-aged or older, lead exposure has also been associated with elevated blood pressure and may lead to anemia.

At high levels, lead can cause severe damage to the brain and kidneys in both adults and children, and in extreme cases, may be fatal.

Lead is undetectable by taste, or smell, making it difficult to identify in drinking water without proper testing. The health effects of low-level exposure are often not immediately apparent. Symptoms, if present, may be subtle or mistaken for other illnesses, such as the flu.

Many water treatment systems are capable of significantly reducing lead levels in drinking water, though their effectiveness varies by system type and maintenance.

National Primary Drinking Water Regulations

The National Primary Drinking Water Regulations (NPDWRs) are legally enforceable standards issued by the U.S. Environmental Protection Agency (EPA) to protect public health by limiting contaminants in public drinking water systems. The purpose of the NPDWRs is to ensure safe drinking water by setting limits on contaminants that can adversely affect human health. Maximum Contaminant Levels (MCLs) are the highest amount of a contaminant allowed in drinking water delivered by public water systems, as set by the EPA under the National NPDWRs.

In accordance with the City of Philadelphia Code, the Action Level (AL) for lead (Pb) in drinking water is 10 micrograms per liter (µg/L), or 10 parts per billion (ppb). By comparison, the Environmental Protection Agency (EPA) sets the federal drinking water standard at 15 micrograms per liter (µg/L). The Action Level represents the concentration of lead in water at which certain regulatory responses may be required, including corrosion control treatment, source water treatment, lead service line replacement, and public education**.**

Codes & Standards

There are currently no state or federal regulations that mandate the testing of drinking water in schools, with the exception of institutions that operate their own water supply systems and are therefore governed by the Safe Drinking Water Act (SDWA). The vast majority of public water suppliers do not incorporate schools into their routine sampling protocols, as existing regulations—specifically the Lead and Copper Rule—primarily require sampling from single-family residential dwellings. Nevertheless, Section A-703.2; B. of The Philadelphia Code establishes that *"The Health Department or a testing agency certified by the Pennsylvania Department of Environmental Protection has certified, within the previous five years, that the building is in substantial compliance with applicable water quality requirements of the Board of Health, provided that in no event shall applicable water quality requirements be deemed to permit lead in water at an outlet such as a sink or water fountain that is in service at 10 ppb or more. Any water outlet determined to exceed any such water quality requirements shall be taken out of service within 24 hours of notification of the relevant test. The owner of the educational occupancy shall post the results of the most recent water quality testing at each educational occupancy to a generally available website within ten days of receipt of the results."*

Board of Health Requirements for Water Outlet Testing and Reporting

In accordance with Board of Health regulations, your facility is responsible for reporting the testing of all potable water outlets. Test results must be submitted to the Philadelphia Department of Public Health via email at **WflterLeadTesti11g@phila.gov**.

Each submission must include the following:

1. **Cover Letter**
    - Include the name, address, and contact information of your facility.
    - Clearly identify the purpose of the submission.

2. **Laboratory Report**
    - Provide the sampling date.
    - Identify the laboratory that conducted the analysis.
    - Report the lead concentration for each potable water outlet tested.
3. **Response to Elevated Lead Levels**
    - If any outlet shows a lead concentration **equal to or exceeding 10 parts per billion (µg/L)**, you are required to discontinue use of that outlet **within 24 hours**.
    - Describe the corrective action(s) taken in response to elevated levels in the cover letter.
    - An outlet may only be returned to service **after corrective measures have been implemented** and a follow-up test confirms that the lead level is **below 10 parts per billion (µg/L)**.

Please ensure all documentation is complete and submitted promptly to ensure compliance with health and safety regulations.

Sampling Compliance

All water samples were collected by a licensed Pennsylvania Lead Risk Assessor in the recommended pre-cleaned, 250 mL sampling container supplied by the laboratory, EMSL Analytical of Cinnaminson, New Jersey (NLLAP accredited laboratory). Sampling included both a “first draw” and a “flush” sample taken from each drinking water outlet, as well as a first draw sample from filtered bottle filler outlets. In accordance with EPA 40 CFR Part 141 Subpart I (Lead and Copper Rule) guidelines, all outlets were ideally left unused for a minimum of 6 hours prior to sample collection. The samples were analyzed via Metals ICP-MS-EPA 200.8

Sampling Results

Table No. 1 outlines the sampling data and analytical results from water samples collected on August 06, 2025 at the Alcorn Charter School:

Table No. 1				
Sample #	**Outlet Source**	**Draw Sample**	**Location**	**Results**
01	S	First	Room 101 Low Sink	ND
02	S	Flush		ND
03	S	First	Room 108 Low Sink	1.90
04	S	Flush		2.13
05	F	First	Fountain outside Room 207	ND
06	F	Flush		ND
07	BF	First	Bottle Filler outside Room 207	ND
08	F	First	Fountain outside Room 307	ND
09	F	Flush		ND
10	BF	First	Bottle Filler outside Room 307	ND

Table No. 2 definitions:

Table No. 2	
F	**Fountain**
S	**Sink**
BF	**Bottle Filler**
AAL	**Above Action Level- Remove from Service Immediately**
ND	**Analyte was NOT DETECTED at or above the detection limit**

FIG Environmental LLC is available to address any questions regarding the data provided in this report. Please call our office at 856-553-6162 for further discussions. We appreciate the opportunity given to provide you with our professional services.

John Fiorelli
Project Manager
PA Lead Risk Assessor #004799
FIG Environmental LLC

Attachments (1)

ATTACHEMENT NO. 1
LABORATORY RESULTS & CHAIN OF CUSTODY

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012530296
LIMS Reference ID: AD30296
EMSL Customer ID: FIGE23

Attention: Results
FIG Environmental LLC [FIGE23]
PO Box 8574
Turnersville, NJ 08012-8574
(856) 553-6162
contact@figenvironmentalllc.com

Project Name: Universal Alcorn
Project ID: _Master Project-FIGE23
Customer PO: C-25-062-02
Sales Rep: Justin Monturano
Received: 08/06/2025 14:00
Reported: 08/20/2025 18:09

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: 01/Room 101 Low Sink		**Lims Reference ID:**		**AD30296-01**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									
Lead	ND		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:05	PL	EPA 200.8 (DA)/EPA 200.8
Sample: 02/Room 101 Low Sink (FLUSH)		**Lims Reference ID:**		**AD30296-02**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									
Lead	ND		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:12	PL	EPA 200.8 (DA)/EPA 200.8
Sample: 03/Room 108 Low Sink		**Lims Reference ID:**		**AD30296-03**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									
Lead	**1.90**		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:14	PL	EPA 200.8 (DA)/EPA 200.8
Sample: 04/Room 108 Low Sink (FLUSH)		**Lims Reference ID:**		**AD30296-04**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									
Lead	**2.13**		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:17	PL	EPA 200.8 (DA)/EPA 200.8
Sample: 05/Fountain O/S 207		**Lims Reference ID:**		**AD30296-05**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									
Lead	ND		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:19	PL	EPA 200.8 (DA)/EPA 200.8
Sample: 06/Fountain O/S 207 (FLUSH)		**Lims Reference ID:**		**AD30296-06**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									
Lead	ND		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:26	PL	EPA 200.8 (DA)/EPA 200.8
Sample: 07/Bottle Filler O/S 207		**Lims Reference ID:**		**AD30296-07**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									
Lead	ND		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:29	PL	EPA 200.8 (DA)/EPA 200.8
Sample: 08/Fountain O/S 307		**Lims Reference ID:**		**AD30296-08**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									
Lead	ND		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:31	PL	EPA 200.8 (DA)/EPA 200.8
Sample: 09/Fountain O/S 307 (FLUSH)		**Lims Reference ID:**		**AD30296-09**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: 09/Fountain O/S 307 (FLUSH) (Continued)			**Lims Reference ID:**	**AD30296-09**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals (Continued)									
Lead	**ND**		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:34	PL	EPA 200.8 (DA)/EPA 200.8
Sample: 10/Bottle Filler O/S 307			**Lims Reference ID:**	**AD30296-10**	**Matrix: Drinking Water**				**Sampled: 08/06/25 10:26:00**
Metals									
Lead	**ND**		1	1.00	µg/L	08/08/25 11:22	08/14/25 13:36	PL	EPA 200.8 (DA)/EPA 200.8

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Certified Analyses included in this Report

Analyte	Certifications
EPA 200.8 in Drinking Water	
Lead	NJDEP

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	2845.25	11/30/2025
NYSDOH	New York State Department of Health ELAP	10872	04/01/2026
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2025
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2025
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2026
California ELAP	California Water Boards	1877	06/30/2025
AIHA LAP	American Industrial Hygiene Association (AIHA LAP, LLC)	100194	04/01/2027
A2LA	A2LA Environmental Certificate	2845.01	07/31/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

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Reported: 08/20/2025 18:09

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

FIG Environmental LLC
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Turnersville, New Jersey 08012-8574
www.figenvironmentalllc.com
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856-553-6162

AD30296

Pb in Water SAMPLE CHAIN OF CUSTODY

COLLECTED 08/06/25 @ 10:26 AM

PROJECT NAME	UNIVERSAL ~~ACADEMY~~ ALCORN
PROJECT ID	C-25-062-02
COLLECTED BY	JOHN FISHER
TRANSMITTED BY	JPF

DATE	08/06/25
ANALYSIS	ICP-MS POTABLE
TURNAROUND TIME	TODAY
LABORATORY	ENVIL

Sample #	Volume	Sample Designation (FD=First Draw, FL=Flush)	Outlet Location	Note
01		FD	Room 101 low sink.	
02		FL	Room 101 low sink.	
03		FD	Room 108 low sink	
04		FL	Room 108 low sink.	
05		FD	FOUNTAIN O/S 207	
06		FL	FOUNTAIN O/S 207	
07		FD.	BOTTLE FILLER O/S 207	
08		FD	FOUNTAIN O/S 307	
09		FL	FOUNTAIN O/S 307	
10		FD	BOTTLE FILLER O/S 307.	

Page ___ of ___

8-6-25 1250

8/6/25 1400