

March 21<sup>st</sup>, 2022

Ms. Tamelia Hinson  
Universal Companies  
1427 Catharine Street, 4<sup>th</sup> Floor  
Philadelphia, PA 19146

**Re: Summary Report for Lead in Water Sampling  
Universal Charter Schools – Alcorn  
3200 Dickinson Street, Philadelphia, PA  
Synertech Project No. 704-001-2**

Dear Ms. Hinson:

## **I. Executive Summary**

At the request of the Universal Charter Schools, *Synertech Environmental LLC* performed the lead in water testing at the Universal Alcorn Charter School located at 3200 Dickinson Street, Philadelphia, Pennsylvania. The water sampling was conducted as a proactive effort by the Universal Charter Schools to evaluate, document, and ensure acceptable water quality for all potable water outlets throughout the building. The project included collecting samples for analysis for lead in drinking water. This report is a summary of the sampling protocols and testing data.

The water sampling was performed and Ms. Jennifer Drialo prepared this report, a Pennsylvania certified Lead Inspector at *Synertech Environmental LLC*.

## **II. Methodologies and Acceptable Standards**

*Synertech Environmental LLC* performed sampling for the parameters listed below. Analysis was performed by EMSL Analytical, Inc. in Cinnaminson, New Jersey.

The number of samples collected from each location varied depending on the number of possible potable water outlets present at each building. A total of twenty-two (22) samples were collected from different outlet locations throughout the building. The sampling consisted of “first draw” and “flush draw” samples collected at each sample location.

### *Laws and Regulations*

There is no federal law requiring drinking water testing in schools, except for schools that have their water supply and are thus regulated under the Safe Drinking Water Act (SDWA). Most public water suppliers do not include schools in their sampling plans because regulations (specifically the Lead and Copper Rule) require sampling of single-family dwellings. However, Section A-703.2; B. of the City of Philadelphia Code does require the following:

- ✧ “The Health Department or a testing agency certified by the Pennsylvania Department of Environmental Protection has certified, within the previous five years, that the building is in substantial compliance with applicable water quality requirements of the Board of Health, provided that in no event shall applicable water quality requirements be deemed to permit lead in water at an outlet such as a sink or water fountain that is in service at 10 ppb or more. Any water outlet determined to exceed any such water quality requirements shall be taken out of service within 24 hours of notification of the relevant test. The owner of the educational occupancy shall post the results of the most recent water quality testing at each particular 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. The testing results for each potable water outlet in your facility should be reported to the health department by email to [WfilterLeadTest11g@ptila.gov](mailto:WfilterLeadTest11g@ptila.gov). The submission of results should include the following information:

1. A cover letter that identifies your facility's name, address, and contact information.
2. A laboratory report that shows the date of sampling, the laboratory's name performing the analysis, and the lead result for each potable (drinkable) water outlet.
3. If any lead results are reported to be equal to or exceeding the action level of 10 parts per billion (ug/L), you must discontinue the use of the outlet immediately (within 24 hours). Report your response action(s) associated with an outlet with an elevated lead level in the cover letter. Any outlet with an elevated lead level may be put back into service only after corrective action has been taken and a repeat lead test has shown the level to be less than 10 parts per billion(ug/L).

In addition to the City of Philadelphia requirements, 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 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 comply 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. Instead, it is designed to inform consumers of some of the potential health effects associated with drinking water contaminants when the EPA rule and regulations were 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), established to protect the public against the 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 that is delivered to the consumer. MCLs are set as close to the health goals as possible, considering cost, benefits, and public water systems' ability 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 brass or chrome-plated brass faucets and fixtures that can leach significant amounts of information into the water, boiling 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 water's color, taste, or odor. The effects of low-level toxicity of lead in water may not be noticeable. 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 is **"threshold" is 10 micrograms per liter (µg/L), while** the Environmental Protection Agency (EPA) drinking water standard is 15 micrograms per liter (µg/L). The Action Level (threshold) 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 building where water samples were collected during this project. Those sample results reported above the City of Philadelphia action level will appear in **bold** lettering below.

Lead in Drinking Water					
Sample #	Location	Draw	Sampling Method	CoP Action Level (AL)	Results (ug/L)
<b>Basement</b>					
01	Hall Fountain o/s Girl's Restroom	First	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	ND
02	Hall Fountain o/s Girl's Restroom	Flush			ND
03	Hall Fountain o/s Boy's Restroom	First			ND
04	Hall Fountain o/s Boy's Restroom	Flush			ND
05	Kitchen Stainless Steel Sink	First			2.73
06	Kitchen Stainless Steel Sink	Flush			1.19
<b>1<sup>st</sup> Floor</b>					
07	Room 101 Low Sink	First	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	ND
08	Room 101 Low Sink	Flush			1.21
09	Fountain o/s 105	First			ND
10	Fountain o/s 105	Flush			ND
11	Fountain o/s 103	First			ND
12	Fountain o/s 103	Flush			ND
13	Room 108 Low Sink	First			5.92
14	<b>Room 108 Low Sink</b>	<b>Flush</b>			<b>25.7</b>
<b>2<sup>nd</sup> Floor</b>					
15	Fountain o/s 204	First	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	ND
16	Fountain o/s 204	Flush			ND
17	Fountain o/s 206	First			ND
18	Fountain o/s 206	Flush			ND
<b>3<sup>rd</sup> Floor</b>					
19	Hall Fountain	First	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	ND
20	Hall Fountain	Flush			ND
21	Fountain o/s Girl's Restroom	First			ND
22	Fountain o/s Girl's Restroom	Flush			ND

ND = No Lead Detected in Sample

#### IV. Recommendations

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

- Lead-bearing plumbing materials in contact with drinking water pose a risk at all times (not just when there is a lead action level (LAL) exceeded); therefore, *Synertech Environmental LLC* recommends labeling all bathroom outlets with signage indicating that these outlets are "not for drinking."
- Flushing of all water outlets for at least 30 seconds before drinking or 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.

#### V. Recommendations

##### B. Outlets with Reported lead levels at or above the Action Level

The outlet that had lead concentrations at or above the City of Philadelphia Action Level (sample 14) is **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. Consult a licensed and insured plumbing contractor to determine the source of the elevated sample results. Potential sources of lead contamination are as follows:
  - a. Water service lines;
  - b. Lead soldered joints and fittings;
  - c. Lead faucets/fixtures.

*Synertech Environmental LLC* is pleased to have had the opportunity to provide Universal Charter Schools 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*



Jennifer Drialo  
Certified Lead Inspector

**Attachment 1**

**Lab Results  
&  
Chain of Custody Forms**



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

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Attn:

**J.DRIALO**  
**Synertech Environmental LLC**  
**228 Moore Street**  
**Philadelphia, PA 19148**

3/9/2022

Phone: (215) 755-2305  
Fax: (215) 755-2405

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 2/23/2022. The results are tabulated on the attached data pages for the following client designated project:

**Universal Alcorn Charter School**

The reference number for these samples is EMSL Order #012202902. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

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Owen McKenna, Chemistry Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.  
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>[EnvChemistry2@emsl.com](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012202902

CustomerID: SYNE50

CustomerPO:

ProjectID:

Attn: **J.DRIALO**  
**Synertech Environmental LLC**  
**228 Moore Street**  
**Philadelphia, PA 19148**

Phone: (215) 755-2305  
 Fax: (215) 755-2405  
 Received: 2/23/2022 02:20 PM

Project: **Universal Alcorn Charter School****Analytical Results**

**Client Sample Description** 1 **Collected:** 2/23/2022 **Lab ID:** 012202902-0001  
 BSMT Hall Fountain O/S Girls RR

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:23 VD
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**Client Sample Description** 2 **Collected:** 2/23/2022 **Lab ID:** 012202902-0002  
 BSMT Hall Fountain O/S Girls RR

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:27 VD
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**Client Sample Description** 3 **Collected:** 2/23/2022 **Lab ID:** 012202902-0003  
 BSMT Hall Fountain O/S Boys RR

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:29 VD
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**Client Sample Description** 4 **Collected:** 2/23/2022 **Lab ID:** 012202902-0004  
 BSMT Hall Fountain O/S Boys RR

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:31 VD
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**Client Sample Description** 5 **Collected:** 2/23/2022 **Lab ID:** 012202902-0005  
 Kitchen Stainless Steel Sink

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	2.73	1.00 µg/L	3/4/2022 JM	3/7/2022 15:32 VD
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<http://www.EMSL.com> [EnvChemistry2@emsl.com](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012202902  
 CustomerID: SYNE50  
 CustomerPO:  
 ProjectID:

Attn: **J.DRIALO**  
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Phone: (215) 755-2305  
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 Received: 2/23/2022 02:20 PM

Project: **Universal Alcorn Charter School**

**Analytical Results**

**Client Sample Description** 6 Kitchen Stainless Steel Sink **Collected:** 2/23/2022 **Lab ID:** 012202902-0006

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	1.19	1.00 µg/L	3/4/2022 JM	3/7/2022 15:34 VD
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**Client Sample Description** 7 Room 101 Low Sink **Collected:** 2/23/2022 **Lab ID:** 012202902-0007

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:35 VD
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**Client Sample Description** 8 Room 101 Low Sink **Collected:** 2/23/2022 **Lab ID:** 012202902-0008

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	1.21	1.00 µg/L	3/4/2022 JM	3/7/2022 15:37 VD
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**Client Sample Description** 9 1st Floor O/S 105 Fountain **Collected:** 2/23/2022 **Lab ID:** 012202902-0009

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:41 VD
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**Client Sample Description** 10 1st Floor O/S 105 Fountain **Collected:** 2/23/2022 **Lab ID:** 012202902-0010

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:43 VD
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EMSL Order: 012202902  
 CustomerID: SYNE50  
 CustomerPO:  
 ProjectID:

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 Received: 2/23/2022 02:20 PM

Project: **Universal Alcorn Charter School**

**Analytical Results**

**Client Sample Description** 11  
 1st Hall O/S 103  
**Collected:** 2/23/2022 **Lab ID:** 012202902-0011

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:45 VD
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**Client Sample Description** 12  
 1st Hall O/S 103  
**Collected:** 2/23/2022 **Lab ID:** 012202902-0012

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:49 VD
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**Client Sample Description** 13  
 RM 108 Low Sink  
**Collected:** 2/23/2022 **Lab ID:** 012202902-0013

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	5.92	1.00 µg/L	3/4/2022 JM	3/7/2022 15:51 VD
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**Client Sample Description** 14  
 RM 108 Low Sink  
**Collected:** 2/23/2022 **Lab ID:** 012202902-0014

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	25.7	1.00 µg/L	3/4/2022 JM	3/7/2022 15:52 VD
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**Client Sample Description** 15  
 2nd Hall O/S 204  
**Collected:** 2/23/2022 **Lab ID:** 012202902-0015

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:54 VD
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EMSL Order: 012202902

CustomerID: SYNE50

CustomerPO:

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Project: **Universal Alcorn Charter School****Analytical Results**

**Client Sample Description** 16  
2nd Hall O/S 204  
**Collected:** 2/23/2022  
**Lab ID:** 012202902-0016

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 15:56 VD
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**Client Sample Description** 17  
2nd Hall O/S 206  
**Collected:** 2/23/2022  
**Lab ID:** 012202902-0017

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 16:00 VD
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**Client Sample Description** 18  
2nd Hall O/S 206  
**Collected:** 2/23/2022  
**Lab ID:** 012202902-0018

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 16:02 VD
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**Client Sample Description** 19  
3rd Floor Hall Fountain  
**Collected:** 2/23/2022  
**Lab ID:** 012202902-0019

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 16:03 VD
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**Client Sample Description** 20  
3rd Floor Hall Fountain  
**Collected:** 2/23/2022  
**Lab ID:** 012202902-0020

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 16:05 VD
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EMSL Order:	012202902
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Project: **Universal Alcorn Charter School****Analytical Results**

**Client Sample Description** 21 **Collected:** 2/23/2022 **Lab ID:** 012202902-0021  
 3rd Floor Hall Fountain O/S Girls RR

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 16:22 VD

**Client Sample Description** 22 **Collected:** 2/23/2022 **Lab ID:** 012202902-0022  
 3rd Floor Hall Fountain O/S Girls RR

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	3/4/2022 JM	3/7/2022 16:24 VD

**Definitions:**

- MDL - method detection limit
- J - Result was below the reporting limit, but at or above the MDL
- ND - indicates that the analyte was not detected at the reporting limit
- RL - Reporting Limit (Analytical)
- D - Dilution Sample required a dilution which was used to calculate final results



# SYNERTECH

ENVIRONMENTAL LLC

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[www.gosynertech.com](http://www.gosynertech.com)

012202902

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

Project Name: Universal Alcorn Charter School

Project No: 704-001-2

State Sampled: Pennsylvania

Laboratory: EMSL

Analysis Type: Lead in Drinking Water by ICP-MS via 200.8/6020A

TAT: 2-Week TAT

Samples Collected By: J. DRIALO / B. DUNNING

Date/Time: 2-23-22

Transmitted to Lab By: J. DRIALO

Date/Time: 2-23-22

Received in Lab By: [Signature]

Date/Time: 2/23/22 2:00

Samples Analyzed By: [Signature] - [Signature] et

Date/Time: 2/24/22 9:00

2/23/22 2:20pm

SAMPLE #	LOCATION	REMARKS
1	BSMT HALL FOUNTAIN O/S GIRLS RR	First Draw
2	" "	Flush
3	BSMT HALL FOUNTAIN O/S BOY'S RR	FD
4	" "	FL
5	KITCHEN STAINLESS STEEL SINK	FD
6	" "	FL
7	ROOM 101 LOW SINK	FD
8	" "	FL
9	1 <sup>ST</sup> FLOOR O/S 105 FOUNTAIN	FD
10	" "	FL
11	1 <sup>ST</sup> HALL O/S 103	FD
12	" "	FL
13	RM 108 LOW SINK	FD
14	" "	FL
15	2ND HALL O/S 204	FD
16	" "	FL
17	2ND HALL O/S 206	FD
18	" "	FL
19	3RD FLOOR HALL FOUNTAIN	FD
20	" "	FL
21	3RD FLOOR HALL FOUNTAIN O/S GIRLS RR	FD
22	" "	FL