SMITHCO. ENGINERRING GROUP, INC.
Engineering • Environmental • Development • Construction

808 Market Street, Suite 336 • Camden, New Jersey 08102
Direct 609.682.0096 • www.smithcogroup.com • ssmith@smithcogroup.com

WISSAHICKON CHARTER SCHOOL
LEAD IN WATER SAMPLING 2024
FINAL REPORT

PREPARED FOR:
WISSAHICKON CHARTER SCHOOLS
4700 Wissahickon Ave.
Philadelphia, PA 19144

PREPARED BY:
SMITHCO ENGINEERING GROUP, INC.
808 Market Street, Suite 336
Camden, New Jersey 08102

DATE: **July 5, 2024**

SERVING OUR CLIENTS WITH A COMMITMENT TO
PARTNERSHIP, ALLIANCE, INFORMATION AND CORPORATE INTEGRITY

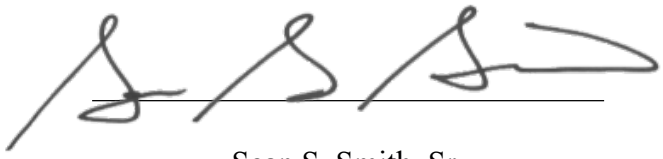
WISSAHICKON CHARTER SCHOOL
LEAD IN WATER SAMPLING
FINAL REPORT

PREPARED BY:

/s/ *Sean S. Smith, Jr.*

Sean S. Smith, Jr.
Project Manager

APPROVED BY:



Sean S. Smith, Sr.
President

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The information herein is provided based on current technology and guidelines established by professional and governmental organizations involved in environmental issues. It is based on physical and regulatory conditions in existence at the time the Facility was visited for the purpose of preparing this document, or at the time of document delivery to the Client, if no Facility was visited for the purpose of preparing this document.

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MASTERY CHARTER SCHOOLS OF CAMDEN
LEAD IN WATER SAMPLING
FINAL REPORT

TABLE OF CONTENTS

1.0 BACKGROUND

THE SMITHCO ENGINEERING GROUP, INC. (SMITHCO) was authorized by the Wissahickon Charter School to undertake lead-in water sampling.

- ✓ Fernhill Campus
- ✓ Awbury Campus

The Scope of Services were conducted pursuant to the regulations and guidance documents from the Bureau of Safe Drinking Water of the Pennsylvania Department of Environmental Protection (PADEP) having principal responsibility to administer the programs and activities of the Federal Safe Drinking Water Act (40 CFR 141, 142, 143), the Pennsylvania Department Safe Drinking Water Act (P.L. 206, No. 43 CL. 35) and the Environmental Protection Agency (EPA) 3Ts for Reducing Lead in Drink Water in Schools, Revised Technical Guidance.

2.0 APPROACH

2.1 Standard for Safe Drinking Water in Pennsylvania

Public health is of paramount importance in the determination of what constitutes safe drinking water. Drinking water standards are developed by both the Federal and State governments. Quality standards adopted into regulations are the minimum considered necessary to maintain public health. The standards are set for biological contaminants, dissolved chemicals and suspended particulate matter.

2.2 Safe Drinking Water Compliance Requirements

The EPA recommends that schools collect 250 mL first –draw samples from water fountains and outlets. It is also recommended that the water fountains or outlets that exceed 15 parts per billion (ppb) or 0.015 milligrams of **lead** per liter of **water** (**mg/L**). **The EPA and City of Philadelphia strongly recommend that all water outlets in all schools that provide water for drinking or**

cooking meet the standard of 15 ppb of lead or less.

2.3 Lead Sampling Collect ion Approach and Reporting

(1) All water samples were collected be 250 milliliters (mL) in volume.

(2) Water samples were collected before the facility opens and before any water is used. Ideally, the water should have sat in the pipes unused for at least 8 hours before the sample is taken.

(3) It was assured by personnel that no water had been withdrawn from the taps which the samples were to be collected prior to their sampling.

(4) A unique sample identification number was assigned to each sample collected – use the sampling schematic or numbering system. Record the identification number on the sample bottle and the chain-of-custody form (*see attached*).

2.3.1 Samples were collected as an "initial draw" method. The water was not run first; the sampling technician collected the first flow of water from the tap directly into the pre-cleaned, 250 mL sampling container supplied by the laboratory.

2.3.2 At the point source for sampling, gloves were utilized for sampling.

2.3.2. The bottles/containers were labeled with client information, school information and location of sampling point, complete this before placing the collected sample(s) in a cooler.

2.3.3. After sampling was completed, contact independent laboratory to inform them a pick up is needed; a Chain of Custody (COC) is completed and executed with the representative of the laboratory.

3.0 ANALYTICAL FINDINGS & DISCUSSIONS

3.1 Analytical Results

Comprehensive laboratory results of 30 samples taken are presented in ATTACHMENT 2.

3.1.1 Awbury Campus

ALL RESULT WAS NONE DETECTED EXCEPT FOR ONE AT THE POINT OF ENTRY INTO THE BUILDING WHICH WAS BELOW THE REGULATORY LIMITS OF 15 PPB.

3.1.2 Fernhill Campus

SAMPLE ID	ANALYTICAL RESULT LEAD	COMMENTS
SMCO-01 Main Service Line 1st Draw	**884 ppb[1]**	1. Sample taken from Service Connection. It is doubtful children will be drinking from this outlet.
SMCO-02 Main Service Line 2nd Draw	**1,580 ppb[1]**	1. Sample taken from Service Connection. It is doubtful children will be drinking from this outlet.

[1] Outlets that exceed 15 parts per billion (ppb) or 0.015 milligrams of lead per liter of water (mg/L). Micrograms per liter (ug/L) is essentially the same as parts per billion.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Outlined below are various routine, interim, and permanent remedies.

4.1 Routine Control Measures

Below are examples of routine activities that should be conducted to prevent exposure to elevated levels of lead:

- Create an aerator (screen) cleaning maintenance schedule and clean debris from all accessible aerators frequently.
- Use only cold water for food and beverage preparation. Hot water will dissolve lead more quickly than cold water and is likely to contain increased lead levels. If hot water is needed, it should be taken from the cold water tap and heated on a stove or in a microwave oven.
- Instruct the users (students and staff) to run the water before drinking or staff could run the water before students arrive, so they are drinking water that has not been in contact with the faucet interior since faucets are often a major source of lead in drinking water.
- Placard bathroom sinks with notices that water should not be consumed. You should use pictures if there are small children using bathrooms.

4.2 Interim (Short-Term) Control Measures

Some examples of interim control measures include:

1) **"Flush" the piping system in your building.** "Flushing" involves opening suspect taps every morning before the facility opens and letting the water run to remove water that has been standing in the interior pipes and/or the outlets. The flushing time varies by the type of outlet being cleared. The degree to which flushing helps reduce lead levels can also vary depending on the age and condition of the plumbing and the corrosiveness of the water. Flushing instructions are presented in Exhibit 5.1.

Exhibit 5.1: Flushing Directions by Outlet Type

Remember that each drinking water outlet should be flushed individually; flushing a toilet will not flush your water fountains. All flushing should be recorded in a log submitted daily to the office, or person, in charge of this program.

- Locate the faucet furthest away from the service line on each wing and floor of the building, open the faucets wide, and let the water run for 10 minutes. For best results, calculate the volume of the plumbing and the flow rate at the tap and adjust the flushing time accordingly. This 10-minute time frame is considered adequate for most buildings.
- Open valves at all drinking water fountains without refrigeration units and let the water run for roughly30 seconds to one minute, or until cold.
- Let the water run on all refrigerated water fountains for 15 minutes. Because of the long time period required, routinely flushing refrigerated fountains may not be feasible. It may therefore be necessary, and more economical, to replace these outlets with lead-free, NSF-approved devices.
- Open all kitchen faucets (and other faucets where water will be used for drinking and/or cooking) and let the water run for 30 seconds to one minute, or until cold.

2) **Provide bottled water.** This can be an expensive alternative but might be warranted if you expect or are aware of widespread contamination and flushing is not an option. If you use bottled water, be aware that it is not regulated by EPA but rather by the Food and Drug Administration (FDA). EPA recommends that you require a written statement from the bottled water distributor guaranteeing that the bottled water meets FDA and state standards.

3) **Shut off problem outlets.** If initial sample results from an outlet exceed 15 ppb, the outlet can be shut off or disconnected until the problem is resolved. If the outlet had been frequently used, bottled water could be provided as a temporary replacement.

ATTACHMENT 1

ANALYTICAL RESULTS

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012420744
LIMS Reference ID: AC20744
EMSL Customer ID: SMCG99

Attention: Sean S. Smith Sr.
Smithco Engineering Group [SMCG99]
808 Market St
Camden, NJ 08102
(609) 682-0096
ssmith@smithcogroup.com

Project Name: Wissahicken Charter Awbury Campus

Customer PO:
EMSL Sales Rep: Josh Silverman
Received: 06/20/2024 12:15
Reported: 07/02/2024 20:08

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SMCO-01/Kitchen Sink (3) 1st Draw		**Lims Reference ID:**		**AC20744-01**	**Matrix: Drinking Water**				**Sampled: 06/19/24 08:00:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 15:59	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-02/Kitchen Sink (3) 2nd Draw		**Lims Reference ID:**		**AC20744-02**	**Matrix: Drinking Water**				**Sampled: 06/19/24 08:02:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:05	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-03/Main Service Line 1st Draw		**Lims Reference ID:**		**AC20744-03**	**Matrix: Drinking Water**				**Sampled: 06/19/24 08:05:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:07	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-04/Main Service Line 2nd Draw		**Lims Reference ID:**		**AC20744-04**	**Matrix: Drinking Water**				**Sampled: 06/19/24 08:07:00**
Metals									
Lead	1.14		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:09	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-05/Gym Water Fountain 1st Draw		**Lims Reference ID:**		**AC20744-05**	**Matrix: Drinking Water**				**Sampled: 06/19/24 08:09:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:11	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-06/Gym Water Fountain 2nd Draw		**Lims Reference ID:**		**AC20744-06**	**Matrix: Drinking Water**				**Sampled: 06/19/24 08:11:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:17	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-07/Nurse Office 1st Draw		**Lims Reference ID:**		**AC20744-07**	**Matrix: Drinking Water**				**Sampled: 06/19/24 08:13:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:19	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-08/Nurse Office 2nd Draw		**Lims Reference ID:**		**AC20744-08**	**Matrix: Drinking Water**				**Sampled: 06/19/24 08:15:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:21	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-09/Water Fountain By Rm 112 1st Draw		**Lims Reference ID:**		**AC20744-09**	**Matrix: Drinking Water**				**Sampled: 06/19/24 08:16:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:23	JW1	EPA 200.8 (DA)/EPA 200.8

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
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EMSL-CIN-01

EMSL Order ID: 012420744
LIMS Reference ID: AC20744
EMSL Customer ID: SMCG99

Attention: Sean S. Smith Sr.
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ssmith@smithcogroup.com

Project Name: Wissahicken Charter Awbury Campus

Customer PO:
EMSL Sales Rep: Josh Silverman
Received: 06/20/2024 12:15
Reported: 07/02/2024 20:08

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SMCO-10/Water Fountain By Rm 112 2nd Draw		**Lims Reference ID:**	**AC20744-10**	**Matrix: Drinking Water**					**Sampled: 06/19/24 08:18:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:25	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-11/Water Fountain By Rm 212 1st Draw		**Lims Reference ID:**	**AC20744-11**	**Matrix: Drinking Water**					**Sampled: 06/19/24 08:22:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:27	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-12/Water Fountain By Rm 212 2nd Draw		**Lims Reference ID:**	**AC20744-12**	**Matrix: Drinking Water**					**Sampled: 06/19/24 08:24:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:33	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-13/Teachers Lounge 1st Draw		**Lims Reference ID:**	**AC20744-13**	**Matrix: Drinking Water**					**Sampled: 06/19/24 08:27:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 16:35	JW1	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-14/Teachers Lounge 2nd Draw		**Lims Reference ID:**	**AC20744-14**	**Matrix: Drinking Water**					**Sampled: 06/19/24 08:30:00**
Metals									
Lead	<1.00		1	1.00	µg/L	06/21/24 16:58	06/25/24 17:20	JW1	EPA 200.8 (DA)/EPA 200.8

EMSL Analytical, Inc.

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EMSL-CIN-01

EMSL Order ID: 012420744
LIMS Reference ID: AC20744
EMSL Customer ID: SMCG99

Attention: Sean S. Smith Sr.
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Camden, NJ 08102
(609) 682-0096
ssmith@smithcogroup.com

Project Name: Wissahicken Charter Awbury Campus

Customer PO:
EMSL Sales Rep: Josh Silverman
Received: 06/20/2024 12:15
Reported: 07/02/2024 20:08

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	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

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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Project Name: Wissahicken Charter Awbury Campus
Customer PO:
EMSL Sales Rep: Josh Silverman
Received: 06/20/2024 12:15
Reported: 07/02/2024 20:08

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
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

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. All results for soil samples are reported on a dry weight basis, unless otherwise noted.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: AC20744

PHONE: ( )
FAX: ( )

Company : SMITHCO ENGINEERING GROUP, INC.	**EMSL-Bill to:** ■ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 808 MARKET STREET, SUITE 336	*Third Party Billing requires written authorization from third party*
City: CAMDEN **State/Province:** NJ	**Zip/Postal Code:** **Country:**
Report To (Name): SEAN S. SMITH, SR.	**Telephone #:**
Email Address: SSMITH@SMITHCOGROUP.COM	**Fax #:** **Purchase Order:**
Project Name/Number: WISSAHICKEN CHARTER AWBURY CAMPUS	**Please Provide Results:** ☐ Fax ☐ Email
U.S. State Samples Taken: PA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ■ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	☐
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☒	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: SEAN S. SMITH, JR. **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
SMCO-01	KITCHEN SINK (3)1ST DRAW	250 ML	6/19/24 @8:00 AM
SMCO-02	KITCHEN SINK (3)2ND DRAW	250 ML	6/19/24 @8:02 AM

Client Sample #s SMCO-01 - SMCO-16 **Total # of Samples:** 16

Relinquished (Client): **Date:** **Time:**

Received (Lab): **Date:** 6/20/24 **Time:** 1715p

Comments: (14)

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only):*

AC20744

PHONE: ( )
FAX: ( )

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
SMCO-03	MAIN SERVICE LINE 1ST DRAW	250 ML	6/19/24 @ 8:05 AM
SMCO-04	MAIN SERVICE LINE 2ND DRAW	250 ML	6/19/24 @ 8:07AM
SMCO--05	GYM WATER FOUNTAIN1ST DRAW	250 ML	6/19/24 @ 8:09 AM
SMCO-06	GYM WATER FOUNTAIN 2ND DRAW	250 ML	6/19/24 @ 8:11AM
SMCO-07	NURSE OFFICE 1ST DRAW	250 ML	6/19/24 @ 8:13AM
SMCO-08	NURSE OFFICE 2ND DRAW	250 ML	6/19/24 @8:15 AM
SMCO--09	WATER FOUNTAIN BY RM 112 1ST DRAW	250 ML	6/19/24 @ 8:16AM
SMCO-10	WATER FOUNTAIN BY RM 112 2ND DRAW	250 ML	6/19/24 @ 8:18AM
SMCO-11	WATER FOUNTAIN BY RM 212 1ST DRAW	250 ML	6/19/24 @ 8:22 AM
SMCO-12	WATER FOUNTAIN BY RM 212 2ND DRAW	250 ML	6/19/24 @ 8:24AM
SMCO-13	TEACHERS LOUNGE 1ST DRAW	250 ML	6/19/24 @ 8:27 AM
SMCO-14	TEACHERS LOUNGE 2ND DRAW	250 ML	6/19/24 @ 8:30 AM

Comments/Special Instructions:

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012420730
LIMS Reference ID: AC20730
EMSL Customer ID: SMCG99

Attention: Sean S. Smith Sr.
Smithco Engineering Group [SMCG99]
808 Market St
Camden, NJ 08102
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Project Name: Wissahicken Charter Fernhill Campus

Customer PO:
EMSL Sales Rep: Josh Silverman
Received: 06/20/2024 12:15
Reported: 07/02/2024 20:10

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SMCO-01/Main Service Line 1st Draw		**Lims Reference ID:**		**AC20730-01**	**Matrix: Drinking Water**				**Sampled: 06/19/24 06:45:00**
Metals									
Lead	**884**	D	20	20.0	µg/L	06/25/24 12:00	06/26/24 19:57	JW1	EPA 200.8 (Dig)/EPA 200.8
Sample: SMCO-02/Main Service Line 2nd Draw		**Lims Reference ID:**		**AC20730-02**	**Matrix: Drinking Water**				**Sampled: 06/19/24 06:47:00**
Metals									
Lead	**1580**	D	50	50.0	µg/L	06/25/24 12:00	06/26/24 20:00	JW1	EPA 200.8 (Dig)/EPA 200.8
Sample: SMCO-03/Teachers Lounge 1st Draw		**Lims Reference ID:**		**AC20730-03**	**Matrix: Drinking Water**				**Sampled: 06/19/24 06:52:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 18:28	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-04/Teachers Lounge 2nd Draw		**Lims Reference ID:**		**AC20730-04**	**Matrix: Drinking Water**				**Sampled: 06/19/24 06:54:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 18:34	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-05/Kitchen Sink 1st Draw		**Lims Reference ID:**		**AC20730-05**	**Matrix: Drinking Water**				**Sampled: 06/19/24 06:59:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 18:36	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-06/Kitchen Sink 2nd Draw		**Lims Reference ID:**		**AC20730-06**	**Matrix: Drinking Water**				**Sampled: 06/19/24 07:01:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 18:38	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-07/Water Fountain By Rm 108 1st Draw		**Lims Reference ID:**		**AC20730-07**	**Matrix: Drinking Water**				**Sampled: 06/19/24 07:04:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 18:40	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-08/Water Fountain By Rm 108 2nd Draw		**Lims Reference ID:**		**AC20730-08**	**Matrix: Drinking Water**				**Sampled: 06/19/24 07:06:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 20:32	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-09/Nurses Office 1st Draw		**Lims Reference ID:**		**AC20730-09**	**Matrix: Drinking Water**				**Sampled: 06/19/24 07:08:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 20:07	LXK	EPA 200.8 (DA)/EPA 200.8

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012420730
LIMS Reference ID: AC20730
EMSL Customer ID: SMCG99

Attention: Sean S. Smith Sr.
Smithco Engineering Group [SMCG99]
808 Market St
Camden, NJ 08102
(609) 682-0096
ssmith@smithcogroup.com

Project Name: Wissahicken Charter Fernhill Campus

Customer PO:
EMSL Sales Rep: Josh Silverman
Received: 06/20/2024 12:15
Reported: 07/02/2024 20:10

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SMCO-09/Nurses Office 1st Draw (Continued)			**Lims Reference ID: AC20730-09**			**Matrix: Drinking Water**			**Sampled: 06/19/24 07:08:00**
Metals (Continued)									
Sample: SMCO-10/Nurses Office 2nd Draw			**Lims Reference ID: AC20730-10**			**Matrix: Drinking Water**			**Sampled: 06/19/24 07:10:00**
Metals									
Lead	**1.26**		1	1.00	µg/L	06/25/24 11:25	06/27/24 20:09	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-11/Water Fountain By Rm 110 1st Draw			**Lims Reference ID: AC20730-11**			**Matrix: Drinking Water**			**Sampled: 06/19/24 07:12:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 20:11	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-12/Water Fountain By Rm 110 2nd Draw			**Lims Reference ID: AC20730-12**			**Matrix: Drinking Water**			**Sampled: 06/19/24 07:14:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 20:12	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-13/Water Fountain By Rm 120 1st Draw			**Lims Reference ID: AC20730-13**			**Matrix: Drinking Water**			**Sampled: 06/19/24 07:18:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 20:14	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-14/Water Fountain By Rm 120 2nd Draw			**Lims Reference ID: AC20730-14**			**Matrix: Drinking Water**			**Sampled: 06/19/24 07:20:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 20:20	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-15/Gym Water Fountain Outside 1st Draw			**Lims Reference ID: AC20730-15**			**Matrix: Drinking Water**			**Sampled: 06/19/24 07:26:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 20:22	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: SMCO-16/Gym Water Fountain Outside 2nd Draw			**Lims Reference ID: AC20730-16**			**Matrix: Drinking Water**			**Sampled: 06/19/24 07:28:00**
Metals									
Lead	**<1.00**		1	1.00	µg/L	06/25/24 11:25	06/27/24 20:34	LXK	EPA 200.8 (DA)/EPA 200.8

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EMSL Order ID: 012420730
LIMS Reference ID: AC20730
EMSL Customer ID: SMCG99

Attention: Sean S. Smith Sr.
Smithco Engineering Group [SMCG99]
808 Market St
Camden, NJ 08102
(609) 682-0096
ssmith@smithcogroup.com

Project Name: Wissahicken Charter Fernhill Campus

Customer PO:
EMSL Sales Rep: Josh Silverman
Received: 06/20/2024 12:15
Reported: 07/02/2024 20:10

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	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

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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EMSL Order ID: 012420730
LIMS Reference ID: AC20730
EMSL Customer ID: SMCG99

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Project Name: Wissahicken Charter Fernhill Campus

Customer PO:
EMSL Sales Rep: Josh Silverman
Received: 06/20/2024 12:15
Reported: 07/02/2024 20:10

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
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

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. All results for soil samples are reported on a dry weight basis, unless otherwise noted.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: AC20730

PHONE: ( )
FAX: ( )

Company : SMITHCO ENGINEERING GROUP, INC.	**EMSL-Bill to:** ■ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 808 MARKET STREET, SUITE 336	*Third Party Billing requires written authorization from third party*
City: CAMDEN **State/Province:** NJ	**Zip/Postal Code:** **Country:**
Report To (Name): SEAN S. SMITH, SR.	**Telephone #:**
Email Address: SSMITH@SMITHCOGROUP.COM	**Fax #:** **Purchase Order:**
Project Name/Number: WISSAHICKEN CHARTER FERNHILL CAMPUS	**Please Provide Results:** ☐ Fax ☐ Email
U.S. State Samples Taken: PA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ■ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	☐
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☑	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: SEAN S. SMITH, JR. **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
SMCO-01	MAIN SERVICE LINE 1ST DRAW	250 ML	6/19/24 @6:45 AM
SMCO-02	MAIN SERVICE LINE 2ND DRAW	250 ML	6/19/24 @6:47 AM

Client Sample #s - SMCO-01 - SMCO 16 **Total # of Samples:** 16

Relinquished (Client): **Date:** **Time:** 1245p

Received (Lab): **Date:** 6/20/24 **Time:** 1245p

Comments:

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only):*

AC 20730

PHONE: ( )
FAX: ( )

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
SMCO-03	TEACHERS LOUNGE 1ST DRAW	250 ML	6/19/24 @ 6:52 AM
SMCO-04	TEACHERS LOUNGE 2ND DRAW	250 ML	6/19/24 @ 6:54 AM
SMCO--05	KITCHEN SINK 1ST DRAW	250 ML	6/19/24 @ 6:59 AM
SMCO-06	KITCHEN SINK 2ND DRAW	250 ML	6/19/24 @ 7:01 AM
SMCO-07	WATER FOUNTAIN BY RM 108 1ST DRAW	250 ML	6/19/24 @ 7:04 AM
SMCO-08	WATER FOUNTAIN BY RM 108 2ND DRAW	250 ML	6/19/24 @ 7:06 AM
SMCO--09	NURSES OFFICE 1ST DRAW	250 ML	6/19/24 @ 7:08AM
SMCO-10	NURSES OFFICE 2ND DRAW	250 ML	6/19/24 @ 7:10AM
SMCO-11	WATER FOUNTAIN BY RM 110 1ST DRAW	250 ML	6/19/24 @ 7:12 AM
SMCO-12	WATER FOUNTAIN BY RM 110 2ND DRAW	250 ML	6/19/24 @ 7:14AM
SMCO-13	WATER FOUNTAIN BY RM 120 1ST DRAW	250 ML	6/19/24 @ 7:18 AM
SMCO-14	WATER FOUNTAIN BY RM 120 1ST DRAW	250 ML	6/19/24 @ 7:20 AM
SMCO-15	GYM WATER FOUNTAIN OUTSIDE 1ST DRAW	250 ML	6/19/24 @ 7:26 AM
SMCO-16	GYM WATER FOUNTAIN OUTSIDE 2ND DRAW	250 ML	6/19/24 @ 7:28AM

Comments/Special Instructions: