ALEXANDRIA CITY HIGH SCHOOL LEAD IN DRINKING WATER SAMPLING - JULY 2024

ALEXANDRIA CITY HIGH SCHOOL

3330 KING STREET
ALEXANDRIA, VIRGINIA 22302

ECS PROJECT NO. 47:11652-E

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS (ACPS)

NOVEMBER 17, 2025

November 17, 2025

Mr. Lee Conroy
Alexandria City Public Schools (ACPS)
1340 Braddock Place
Alexandria, Virginia 22314
lee.conroy@acps.k12.va.us

ECS Project No. 47:11652-E

Reference: Alexandria City High School Lead in Drinking Water Sampling - July 2024, Alexandria City High School, 3330 King Street, Alexandria, Virginia

Dear Mr. Conroy:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools (ACPS) with the results of the above refernced sampling performed at Alexandria City High School located at 3330 King Street in Alexandria, Virginia. The purpose of this report is to re-transmit the results of the water re-sampling event as a result of staff turnover. The sampling event was performed on November 7, 2024. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:16189-EP and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Alexandria City Public Schools (ACPS) with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

Bobby L. Rhett
Environmental Senior Project Consultant
brhett@ecslimited.com
703-471-8400

Christopher J. Chapman, CIH
Director of Industrial Hygiene
cchapman@ecslimited.com
703-471-8400

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1.0 PROJECT DESCRIPTION

The Alexandria City High School is a three-story school building located at 3330 King Street in Alexandria, Virginia. The building is currently occupied, and is used by Alexandria City Public Schools as a school. The site is located within the City of Alexandria and is under the jurisdiction of Environmental Protection Agency (EPA) and Commonwealth of Virginia Code of Regulations for drinking water in schools.

The site receives water from Virginia American Water, which is classified as a public drinking water system by the EPA under the Safe Drinking Water Act (SDWA). Because the site is connected to a public water system, the site is not independently regulated as a water supplier by the EPA.

2.0 PURPOSE

The purpose of this report is to re-transmit the results of water sampling due to staff turnover. The water re-sampling event was performed on November 7, 2024.

The purpose of the sampling was to perform targeted re-testing of five water sources within the school. This was not a comprehensive retesting of all drinking water sources in the school, but a re-testing of previously elevated sources following corrective actions performed by ACPS.

For this re-sampling event, ECS collected five samples from Classrooms C201, C211, B218 Sink 2, B218 Sink 3, and B218 Sink 4; Previous sampling performed by ECS found that lead levels from these appliances exceeded the Virginia action level; ACPS subsequently initiated corrective action and this sampling was a follow-up to confirm that lead levels in these taps were below the Virginia and EPA action levels.

The EPA created the Lead and Copper Rule under the EPA Safe Drinking Water Act (SDWA). US EPA established a lead action level of 15 parts per billion (ppb), equivalent to 15 micrograms per liter (µg/L), and an action level of 1300 µg/L for copper.

The Code of Virginia § 22.1-135.1 currently requires Virginia school boards to develop and implement a plan to test, and if necessary, remediate potable water sources identified by the US EPA as a high priority. Each local school board shall submit testing plans and laboratory results to the Department of Health. If potable water sources are detected at or above 10 parts per billion (10 µg/L), the school board shall notify parents of such results.

The US EPA's *3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (EPA 815-B-18-007*) was created to provide recommendations on how to address lead in drinking water in schools and child care facilities. The procedures and response actions outlined in the EPA's 3Ts document are recommendations, not requirements. The EPA's 3Ts guidance document does not set action levels for lead in drinking water, but it does reference the action levels created for public water systems in the EPA's Lead and Copper Rule (LCR). The results of this water sampling event were compared to the action levels set in the EPA's LCR. and also Commonwealth of Virginia requirements.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for sampling drinking water.

3.1 Lead and Copper in Drinking Water

Sample protocols were performed following the guidance of the US EPA document, *3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (EPA 815-B-18-007*).

ECS coordinated the water sampling with ACPS officials, and it is ECS's understanding that all of the water sources sampled was not in use at least eight hours prior to sampling and was flushed by ACPS at the time it was taken out of service.

During sampling, five initial draw samples were collected on November 7, 2024. The samples were collected in 250 mL bottles with a nitric acid preservative. These water bottles were provided to ECS by Maryland Spectral Services, Inc. The water samples were provided with unique identification labels.

The collected samples was sealed and transported by courier to Maryland Spectral Services located in Baltimore, Maryland under chain of custody protocol for analysis per EPA Methodology for lead in drinking water.

Please note that efforts were made to collect samples from the selected outlets in accordance with the methodology described above.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Lead in Drinking Water

The water samples collected from the above-mentioned classroom locations were below the EPA and Commonwealth of Virginia action level. In total, five (5) water samples were collected from the building. A table of the collected samples and the associated analytical results can be found in the appendices. Please note that the analytical results displayed in the table have been converted to µg/L (ppb) for easy reference. A copy of the laboratory analytical results and chain of custody are attached to this report. A sketch identifying the approximate location of each water sample can also be found in the appendices.

4.2 Copper in Drinking Water

The water sample collected from the above-mentioned locations were not reported to have a concentration above the EPA and VA action level of 1300 µg/L. In total, five (5) water samples were collected from the building. A table of the collected samples and the associated analytical results can be found in the appendices. Please note that the analytical results displayed in the table have been converted to µg/L (PPB) for easy reference. A copy of the laboratory analytical results and chain of custody are attached to this report. A sketch identifying the approximate location of each water sample can also be found in the appendices.

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Alexandria City High School Lead in Drinking Water Sampling - July 2024, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Lead in Drinking Water

The sample results were below the action level, and no further testing or remediation is indicated at this time.

No specific time frame is given in which follow-up testing for the schools needs to be performed. As good practice, ECS recommends performing follow-up periodic testing every three years. If additional guidelines or regulations are enacted at a state or federal level, the frequency of testing should be modified to reflect these changes.

In the US EPA 3Ts document, routine control measures are recommended as general good practice for over-all drinking water safety. The routine control measures that should be conducted to prevent exposure to elevated levels of lead, include the following:

- Clean debris from all accessible screens frequently. If you discovered sediments in faucet screens, have the sediments tested for lead and continue to clean your screens frequently, even if the analysis finds no lead.
- 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.
- US EPA recommends public notification of the findings of this sample event to the public and school staff. EPA has described different procedures for dissemination of this information which are described in Section III.6 of the 3 Ts document. The school should review the different methods described and choose the most appropriate method for the school.

5.2 Copper in Drinking Water

The sample results were below the action level, and no further testing or remediation is indicated at this time.

No specific time frame is given in which follow-up testing for the schools needs to be performed. As good practice, ECS recommends performing follow-up periodic testing every three years. If additional guidelines or regulations are enacted at a state or federal level, the frequency of testing should be modified to reflect these changes.

In the US EPA 3Ts document, routine control measures are recommended as general good practice for over-all drinking water safety. The routine control measures that should be conducted to prevent exposure to elevated levels of lead, include the following:

- Clean debris from all accessible screens frequently. If you discovered sediments in faucet screens, have the sediments tested for lead and continue to clean your screens frequently, even if the analysis finds no lead.
- 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.
- US EPA recommends public notification of the findings of this sample event to the public and school staff. EPA has described different procedures for dissemination of this information which are described in Section III.6 of the 3 Ts document. The school should review the different methods described and choose the most appropriate method for the school.

6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

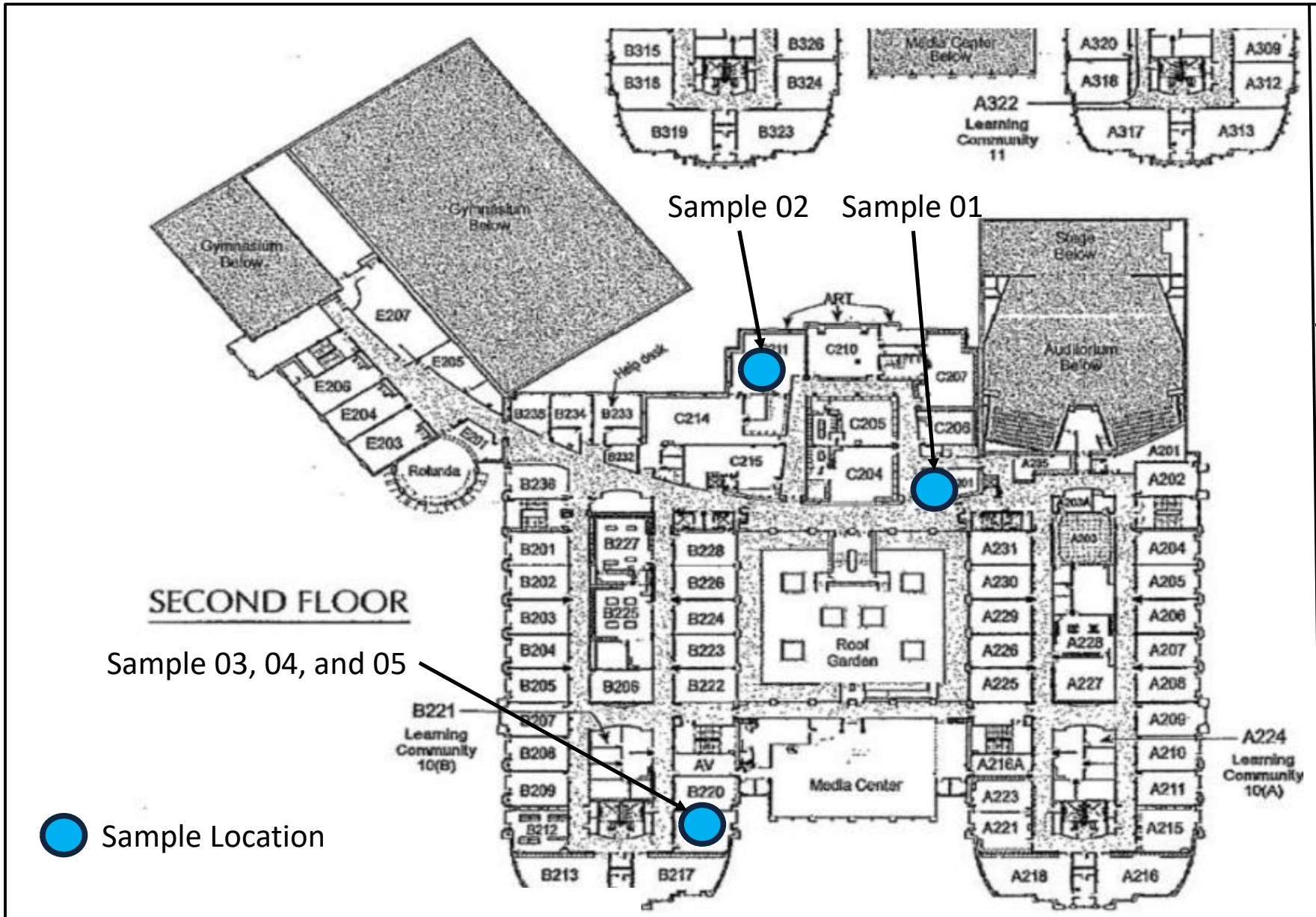
The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

The water samples collected and analyzed are only reflective of conditions at the time of this sampling event for the date of this report and these parameters can vary rapidly over time, depending upon a number of conditions, including site-specific construction and environmental factors. As such, the sampling and results associated with this assessment is intended only as a description of available information at the dates and locations given. This report has been prepared in accordance with generally accepted environmental practices. Our conclusions and findings are based, in part, upon information provided to us by others and our site observations. We have not verified the completeness or accuracy of the information provided by others.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of

services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Drawings



Alexandria City High School
3330 King St,
Alexandria, VA 22302

Water Sample Location Sketch- 2nd Floor

Scale: NTS

Project No.
47:11652-E

Site Visit:
11/7/2024

Appendix II: Lead and Copper Drinking Water Sample Results

Copper and Lead Drinking Water Results Table		
Sample Number	**Copper Result (ug/L)**	**Lead Result (ug/L)**
01 - Classroom C201	303.000	1.430
02 - Classroom C211	14.100	ND
03 - Classroom B218 Sink 2	410.000	1.730
04 - Classroom B218 Sink 3	329.000	1.120
05 - Classroom B218 Sink 4	449.000	1.620
The EPA's Lead and Copper Rule set an action level of 15 ug/L for lead and an action level of 1300 ug/L for copper. Note these levels are related to public water systems (PWSs). The Code of Virginia requires school boards notify parents if testing results exceed 10 ug/L of Lead (Pb).		

Table Notes:
Red = Above the EPA Action Level
Orange = Exceeds VA Action Level for Lead
ND = Not Detected

Appendix III: Laboratory Report(s)

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

20 November 2024

Lauren Kesslak
ECS-Chantilly
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151
RE: ACPS ACHS

Enclosed are the results of analyses for samples received by the laboratory on 11/07/24 08:01.

Please visit our website at www.mdspectral.com for a complete listing of our accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rabecka Koons
Quality Assurance Officer

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01		4110704-01	Drinking Water	10/02/24 05:12	11/07/24 08:01
02		4110704-02	Drinking Water	10/02/24 05:16	11/07/24 08:01
03		4110704-03	Drinking Water	10/02/24 05:19	11/07/24 08:01
04		4110704-04	Drinking Water	10/02/24 05:20	11/07/24 08:01
05		4110704-05	Drinking Water	10/02/24 05:21	11/07/24 08:01

Rabecka Koons, Quality Assurance Officer

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

01

4110704-01 (Drinking Water)
Sampled on: 10/02/24 05:12

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals									
Copper	**303**		ug/L	1.00	1.00	1	11/18/24	11/19/24 17:06	AWH
Lead	**1.43**		ug/L	1.00	1.00	1	11/18/24	11/19/24 17:06	AWH

Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

02

4110704-02 (Drinking Water)
Sampled on: 10/02/24 05:16

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**14.1**		ug/L	1.00	1.00	1	11/16/24	11/16/24 22:01	AWH
Lead	ND		ug/L	1.00	1.00	1	11/16/24	11/16/24 22:01	AWH

Rabecka Koons, Quality Assurance Officer

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Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

03

4110704-03 (Drinking Water)
Sampled on: 10/02/24 05:19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**410**		ug/L	1.00	1.00	1	11/16/24	11/16/24 22:03	AWH
Lead	**1.73**		ug/L	1.00	1.00	1	11/16/24	11/16/24 22:03	AWH

Rabecka Koons, Quality Assurance Officer

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MD DW LabID 153

Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

04

4110704-04 (Drinking Water)
Sampled on: 10/02/24 05:20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**329**		ug/L	1.00	1.00	1	11/16/24	11/16/24 22:04	AWH
Lead	**1.12**		ug/L	1.00	1.00	1	11/16/24	11/16/24 22:04	AWH

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Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

05

4110704-05 (Drinking Water)
Sampled on: 10/02/24 05:21

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**449**		ug/L	1.00	1.00	1	11/16/24	11/16/24 22:06	AWH
Lead	**1.62**		ug/L	1.00	1.00	1	11/16/24	11/16/24 22:06	AWH

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Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

Total Metals Analysis by EPA 200.8DW - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B411415 - 200.8-No Digestion Metals										
Blank (B411415-BLK1)					Prepared & Analyzed: 11/16/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B411415-BLK2)					Prepared & Analyzed: 11/16/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B411415-BLK3)					Prepared & Analyzed: 11/16/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B411415-BLK4)					Prepared & Analyzed: 11/16/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B411415-BLK5)					Prepared & Analyzed: 11/16/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B411415-BLK6)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B411415-BLK7)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B411415-BLK8)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						

Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

Total Metals Analysis by EPA 200.8DW - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B411415 - 200.8-No Digestion Metals										
Blank (B411415-BLK9)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B411415-BLKA)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
LCS (B411415-BS1)					Prepared & Analyzed: 11/16/24					
Copper	10.2		1.00	ug/L	10.00		102	85-115		
Lead	10.4		1.00	ug/L	10.00		104	85-115		
LCS (B411415-BS2)					Prepared & Analyzed: 11/16/24					
Copper	10.5		1.00	ug/L	10.00		105	85-115		
Lead	10.7		1.00	ug/L	10.00		107	85-115		
LCS (B411415-BS3)					Prepared & Analyzed: 11/16/24					
Copper	10.0		1.00	ug/L	10.00		100	85-115		
Lead	10.5		1.00	ug/L	10.00		105	85-115		
LCS (B411415-BS4)					Prepared & Analyzed: 11/16/24					
Copper	9.82		1.00	ug/L	10.00		98	85-115		
Lead	10.2		1.00	ug/L	10.00		102	85-115		
LCS (B411415-BS5)					Prepared & Analyzed: 11/16/24					
Copper	10.3		1.00	ug/L	10.00		103	85-115		
Lead	10.8		1.00	ug/L	10.00		108	85-115		
LCS (B411415-BS6)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	10.7		1.00	ug/L	10.00		107	85-115		
Lead	11.2		1.00	ug/L	10.00		112	85-115		

Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

Total Metals Analysis by EPA 200.8DW - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B411415 - 200.8-No Digestion Metals										
LCS (B411415-BS7)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	9.30		1.00	ug/L	10.00		93	85-115		
Lead	9.92		1.00	ug/L	10.00		99	85-115		
LCS (B411415-BS8)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	9.74		1.00	ug/L	10.00		97	85-115		
Lead	10.4		1.00	ug/L	10.00		104	85-115		
LCS (B411415-BS9)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	10.3		1.00	ug/L	10.00		103	85-115		
Lead	11.0		1.00	ug/L	10.00		110	85-115		
LCS (B411415-BSA)					Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	10.7		1.00	ug/L	10.00		107	85-115		
Lead	11.5		1.00	ug/L	10.00		115	85-115		
Duplicate (B411415-DUP1)		**Source: 4110605-01**			Prepared & Analyzed: 11/16/24					
Copper	207		1.00	ug/L		205			1	20
Lead	ND		1.00	ug/L		ND				20
Duplicate (B411415-DUP2)		**Source: 4110605-11**			Prepared & Analyzed: 11/16/24					
Copper	774		1.00	ug/L		774			0.05	20
Lead	4.29		1.00	ug/L		4.37			2	20
Duplicate (B411415-DUP3)		**Source: 4110605-21**			Prepared & Analyzed: 11/16/24					
Copper	359		1.00	ug/L		356			0.8	20
Lead	ND		1.00	ug/L		ND				20
Duplicate (B411415-DUP4)		**Source: 4110605-31**			Prepared & Analyzed: 11/16/24					
Copper	426		1.00	ug/L		437			3	20
Lead	ND		1.00	ug/L		ND				20

Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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www.mdspectral.com
MD DW LabID 153

Project: ACPS ACHS

Project Number: 47:11652-84
Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

Total Metals Analysis by EPA 200.8DW - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B411415 - 200.8-No Digestion Metals										
Duplicate (B411415-DUP5)		**Source: 4110605-41**			Prepared & Analyzed: 11/16/24					
Copper	213		1.00	ug/L		212			0.6	20
Lead	ND		1.00	ug/L		ND				20
Duplicate (B411415-DUP6)		**Source: 4110605-51**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	319		1.00	ug/L		323			1	20
Lead	ND		1.00	ug/L		ND				20
Duplicate (B411415-DUP7)		**Source: 4110606-01**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	216		1.00	ug/L		215			0.4	20
Lead	5.33		1.00	ug/L		5.30			0.5	20
Duplicate (B411415-DUP8)		**Source: 4110606-11**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	344		1.00	ug/L		341			0.8	20
Lead	1.45		1.00	ug/L		1.46			1	20
Duplicate (B411415-DUP9)		**Source: 4110606-21**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	644		1.00	ug/L		646			0.2	20
Lead	11.2		1.00	ug/L		11.2			0.2	20
Duplicate (B411415-DUPA)		**Source: 4110606-31**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	284		1.00	ug/L		279			2	20
Lead	ND		1.00	ug/L		ND				20
Matrix Spike (B411415-MS1)		**Source: 4110605-01**			Prepared & Analyzed: 11/16/24					
Copper	213		1.00	ug/L	10.00	205	74	70-130		
Lead	10.1		1.00	ug/L	10.00	ND	101	70-130		
Matrix Spike (B411415-MS2)		**Source: 4110605-11**			Prepared & Analyzed: 11/16/24					
Copper	761	QM-4X	1.00	ug/L	10.00	774	NR	70-130		
Lead	14.0		1.00	ug/L	10.00	4.37	96	70-130		

Rabecka Koons, Quality Assurance Officer

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Baltimore MD 21227
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Project: ACPS ACHS

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Reported:
11/20/24 11:07

Total Metals Analysis by EPA 200.8DW - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B411415 - 200.8-No Digestion Metals										
Matrix Spike (B411415-MS3)		**Source: 4110605-21**			Prepared & Analyzed: 11/16/24					
Copper	354	QM-4X	1.00	ug/L	10.00	356	NR	70-130		
Lead	9.72		1.00	ug/L	10.00	ND	97	70-130		
Matrix Spike (B411415-MS4)		**Source: 4110605-31**			Prepared & Analyzed: 11/16/24					
Copper	426	QM-4X	1.00	ug/L	10.00	437	NR	70-130		
Lead	10.2		1.00	ug/L	10.00	ND	102	70-130		
Matrix Spike (B411415-MS5)		**Source: 4110605-41**			Prepared & Analyzed: 11/16/24					
Copper	217	QM-4X	1.00	ug/L	10.00	212	51	70-130		
Lead	9.51		1.00	ug/L	10.00	ND	95	70-130		
Matrix Spike (B411415-MS6)		**Source: 4110605-51**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	324	QM-4X	1.00	ug/L	10.00	323	8	70-130		
Lead	9.82		1.00	ug/L	10.00	ND	98	70-130		
Matrix Spike (B411415-MS7)		**Source: 4110606-01**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	219	QM-4X	1.00	ug/L	10.00	215	41	70-130		
Lead	15.2		1.00	ug/L	10.00	5.30	99	70-130		
Matrix Spike (B411415-MS8)		**Source: 4110606-11**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	345	QM-4X	1.00	ug/L	10.00	341	33	70-130		
Lead	11.6		1.00	ug/L	10.00	1.46	102	70-130		
Matrix Spike (B411415-MS9)		**Source: 4110606-21**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	641	QM-4X	1.00	ug/L	10.00	646	NR	70-130		
Lead	21.9		1.00	ug/L	10.00	11.2	108	70-130		
Matrix Spike (B411415-MSA)		**Source: 4110606-31**			Prepared: 11/16/24 Analyzed: 11/17/24					
Copper	285	QM-4X	1.00	ug/L	10.00	279	59	70-130		
Lead	10.3		1.00	ug/L	10.00	ND	103	70-130		

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Project: ACPS ACHS

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Project Manager: Lauren Kesslak

Reported:
11/20/24 11:07

Total Metals Analysis by EPA 200.8DW - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B411423 - 200.2-Digested Metals										
Blank (B411423-BLK1)					Prepared: 11/18/24 Analyzed: 11/19/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
LCS (B411423-BS1)					Prepared: 11/18/24 Analyzed: 11/19/24					
Copper	10.2		1.00	ug/L	10.00		102	85-115		
Lead	10.5		1.00	ug/L	10.00		105	85-115		
Duplicate (B411423-DUP1)		**Source: 4110704-01**			Prepared: 11/18/24 Analyzed: 11/19/24					
Copper	303		1.00	ug/L		303			0.1	20
Lead	1.36		1.00	ug/L		1.43			5	20
Matrix Spike (B411423-MS1)		**Source: 4110704-01**			Prepared: 11/18/24 Analyzed: 11/19/24					
Copper	311		1.00	ug/L	10.00	303	72	70-130		
Lead	11.5		1.00	ug/L	10.00	1.43	101	70-130		

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Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
RE	Sample reanalyses are done at the laboratory's discretion as a mechanism to improve data quality. Any client requested reanalysis will be identified with a sample qualifier.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accredidation

Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Company Name: ECS Mid-Atlantic, LLC	Project Manager: Lauren Kessiak
Project Name: AGPS Drinking Water Periodic Monitoring	Project ID: 47:11652 / AGMS
Sampler(s): Nicholas Sapio	P.O. Number: 47:11652:84
State of Origin: VA	

Analysis Requested

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 * Fax 410-247-7602
reporting@mdspectral.com

Matrix Codes: NPW - non-potable water
DW - drinking water

Field Sample ID:	Date	Time	DW	NPW	Soil	Other	Grab	Composite	# of containers	Lead	Copper	Preservative	Field Notes	MSS Lab ID
01	10.2.24	5:12	✓						1				CZ01 Bathroom Sink	4110704-01 A
02	↓	5:16	↓						1	↓	↓		CZ11 Left Sink	- 02
03		5:19							1				B218 Sink 2	- 03
04		5:20							1				B218 Sink 3	- 04
05		5:21							1				B218 Sink 4	- 05

Relinquished by: (Signature)	Date /Time	Relinquished by: (Signature)
(Printed)	Nov. 7, 24 8:00	(Printed)
Relinquished by: (Signature)	Date /Time 11/7/24 8:01	Received by lab: (Signature)
(Printed)		(Printed) Rachel Horner

Special Instructions / QC Requirements & Comments:
Report to: LKessiak@ecslimited.com
Contact Phone: 202.494.7649

Please indicate if any of the following certifications are required:
- ☐ Virginia VELAP
- ☐ Pennsylvania NELAP
- ☐ West Virginia DEP
- ☐ MD Drinking Water
- ☑ VA Drinking Water
- ☐ Other _____

Turn Around Time:
- ☑ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Delivery Method:
- ☐ Courier
- ☑ Client
- ☐ UPS
- ☐ Fed Ex
- ☐ USPS
- ☐ Other _____

Lab Use:
Temp: 24.6 °C
- ☐ Received on Ice
- ☐ Received Same Day
- ☒ T-41 ☐ T-45

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for __ days