JEFFERSON HOUSTON LEAD IN DRINKING WATER JUNE 2024

JEFFERSON HOUSTON IB SCHOOL

1501 CAMERON STREET
ALEXANDRIA, VIRGINA 22314

ECS PROJECT NO. 47:11652-E

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS (ACPS)

OCTOBER 7, 2024

October 7, 2024

Mr. John Contreras
Alexandria City Public Schools (ACPS)
1340 Braddock Place
Alexandria, Virginia 22314
john.contreras@acps.k12.va.us

ECS Project No. 47:11652-E

Reference: Jefferson Houston Lead in Drinking Water June 2024, Jefferson Houston IB School, 1501 Cameron Street, Alexandria, Virgina

Dear Mr. Contreras:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools (ACPS) with the results of the lead in drinking water sampling performed at Jefferson Houston IB School located at 1501 Cameron Street in Alexandria, Virgina. 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

Lauren E. Kesslak, CIH, CSP
Senior Project Manager
LKesslak@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 Jefferson Houston IB School is a three-story school building located at 1501 Cameron Street in Alexandria, Virgina. The building is currently occupied, and is used by Alexandria City Public Schools as a school. The site is located within the City of 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 water sampling event was to perform periodic re-testing of select drinking water sources within the school. This was not a comprehensive retesting of all drinking water sources in the school.

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 ppb (parts per billion) or 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.

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*). For each facility, water samples were collected from priority drinking water sources that were previously sampled and shown to have elevated levels of lead within the water.

ECS coordinated the water sampling with ACPS officials, and it is ECS's understanding that all of the water sources sampled were not in use at least eight hours prior to sampling and were flushed by APS at the time they were taken out of service. For this sampling event, ECS attempted to sample 20% of the accessible potable water sources within the building, with a minimum of five samples per building and a minimum of two samples per floor. During sampling, initial draw samples were collected. 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 which include the school initials, a sequential number identifier, and sample location identifier.

The collected samples were 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 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 samples collected did not exceed the Commonwealth of Virginia action level of 10 µg/L. In total, twenty six (26) 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

None of the samples collected were reported to have concentrations above the EPA and VA action level of 1300 µg/L. In total, twenty six (26) 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 Jefferson Houston Lead in Drinking Water June 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.

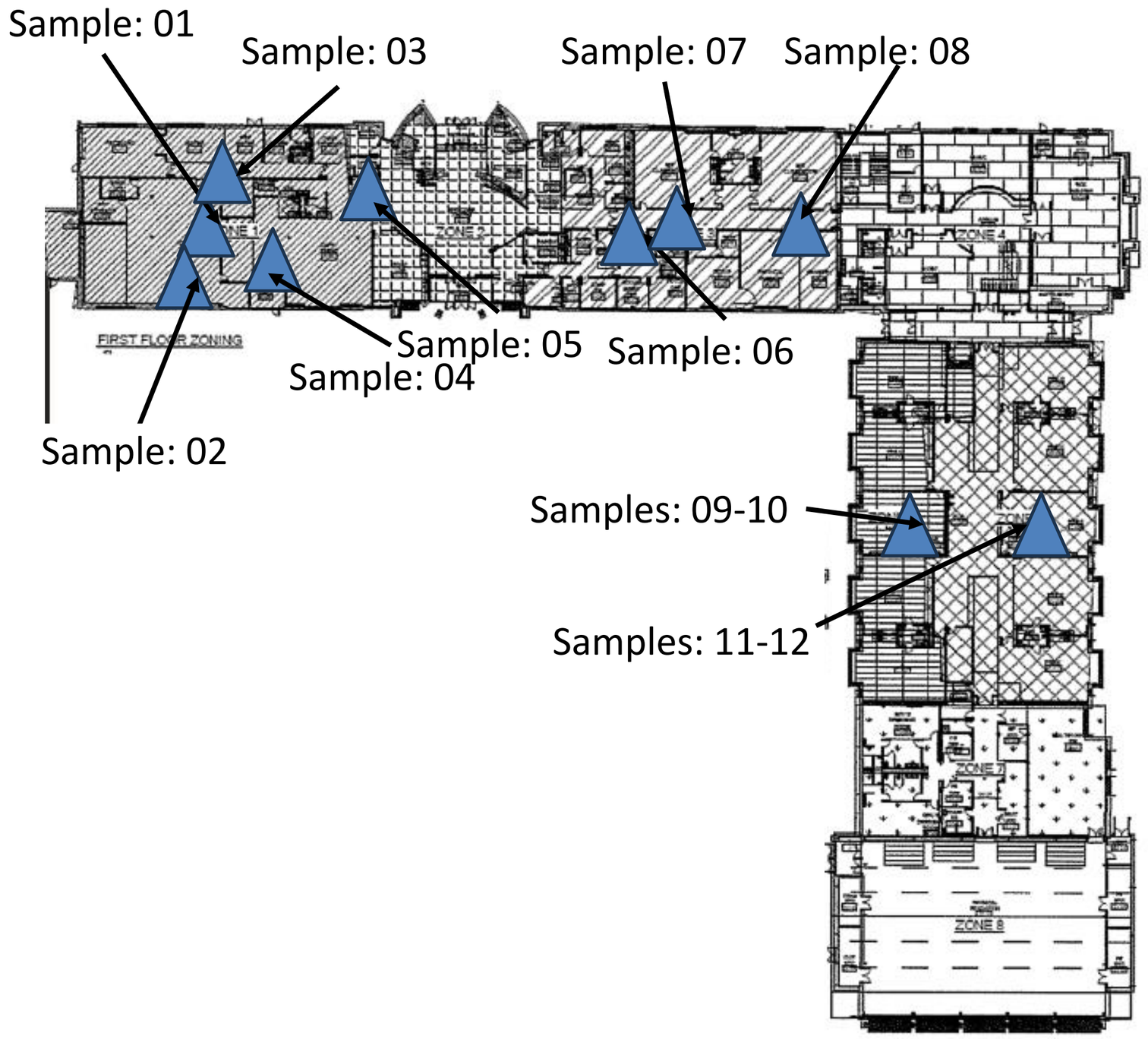
6.0 LIMITATIONS

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.

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



Sample Locations

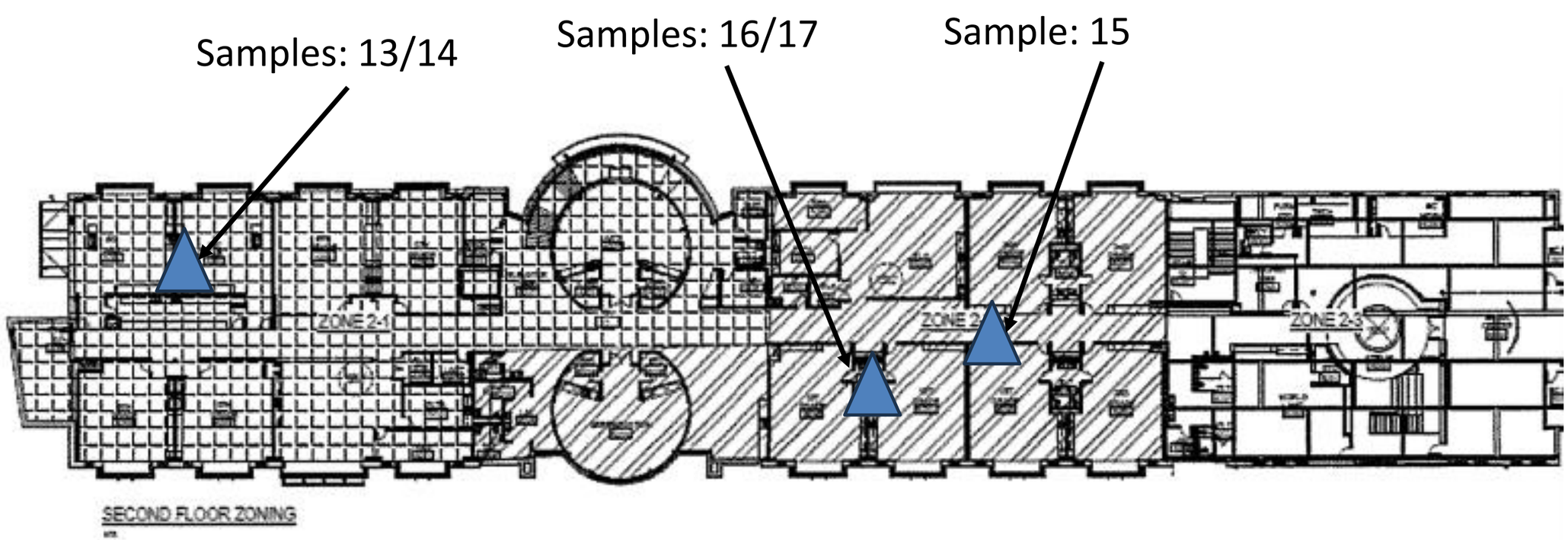
Jefferson-Houston PreK-8 IB School
1501 Cameron St,
Alexandria, VA 22314

Water Sample Location Sketch- First Floor

Scale: NTS

Project No.
47:11652-E

Site Visit:
6/25/24



Sample Locations

Jefferson-Houston PreK-8 IB School
1501 Cameron St,
Alexandria, VA 22314

Water Sample Location Sketch- Second Floor

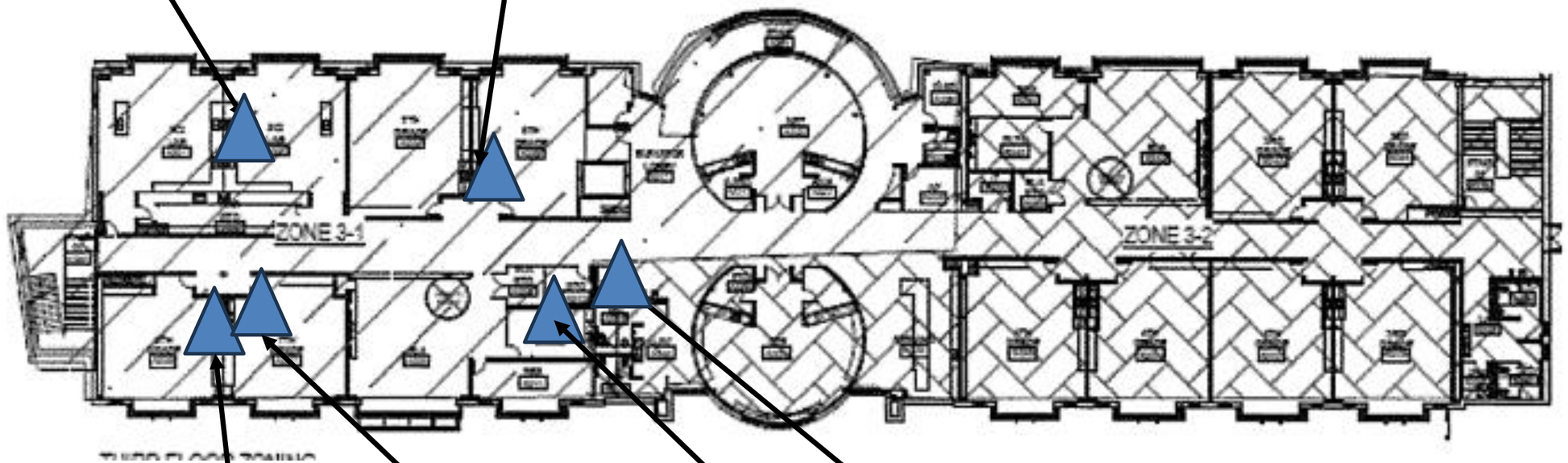
Scale: NTS

Project No.
47:11652-E

Site Visit:
6/25/24

Samples: 24/25

Samples: 22/23



Sample: 21

Sample: 26

Sample: 20

Samples: 18/19

Sample Locations

Jefferson-Houston PreK-8 IB School
1501 Cameron St,
Alexandria, VA 22314

Water Sample Location Sketch- Third Floor

Scale: NTS

Project No.
47:11652-E

Site Visit:
6/25/24

Appendix II: XRF Lead-Based Paint Readings

Jefferson Houston
Alexandria City Public Schools
ECS Project No. 47:11652-E
Site Visit: June 25th, 2024

Copper and Lead Drinking Water Results Table		
Sample Number	**Copper Result (µg/L)**	**Lead Result (µg/L)**
4081519-01	185	2.08
4081519-02	185	ND
4081519-03	307	ND
4081519-04	300	4.92
4081519-05	264	ND
4081519-06	247	ND
4081519-07	908	ND
4081519-08	506	ND
4081519-09	276	ND
4081519-10	411	ND
4081519-11	272	ND
4081519-12	329	ND
4081519-13	259	ND
4081519-14	345	ND
4081519-15	321	ND
4081519-16	246	ND
4081519-17	301	ND
4081519-18	312	ND

Table Notes:
Red = Above the EPA Action Level
Orange = Exceeds VA Action Level for Lead ND= None Detected

Jefferson Houston
Alexandria City Public Schools
ECS Project No. 47:11652-E
Site Visit: June 25th, 2024

Sample Number	Copper Result (µg/L)	Lead Result (µg/L)
4081529-19	388	ND
4081519-20	367	ND
4081519-21	399	1.60
4081519-22	233	ND
4081519-23	339	ND
4081519-24	265	ND
4081519-25	364	ND
4081519-26	435	ND

The EPA's Lead and Copper Rule set an action level of 15 µg/L for lead and an action level of 1300 µg/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 µg/L of Lead (Pb).

Table Notes:
Red = Above the EPA Action Level
Orange = Exceeds VA Action Level for Lead ND= None 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

26 August 2024

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

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 14:30.

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,

Will Brewington
President

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

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1		4081519-01	Drinking Water	06/25/24 06:01	08/15/24 14:30
2		4081519-02	Drinking Water	06/25/24 06:02	08/15/24 14:30
3		4081519-03	Drinking Water	06/25/24 06:03	08/15/24 14:30
4		4081519-04	Drinking Water	06/25/24 06:05	08/15/24 14:30
5		4081519-05	Drinking Water	06/25/24 06:06	08/15/24 14:30
6		4081519-06	Drinking Water	06/25/24 06:08	08/15/24 14:30
7		4081519-07	Drinking Water	06/25/24 06:09	08/15/24 14:30
8		4081519-08	Drinking Water	06/25/24 06:11	08/15/24 14:30
9		4081519-09	Drinking Water	06/25/24 06:13	08/15/24 14:30
10		4081519-10	Drinking Water	06/25/24 06:14	08/15/24 14:30
11		4081519-11	Drinking Water	06/25/24 06:16	08/15/24 14:30
12		4081519-12	Drinking Water	06/25/24 06:17	08/15/24 14:30
13		4081519-13	Drinking Water	06/25/24 06:20	08/15/24 14:30
14		4081519-14	Drinking Water	06/25/24 06:21	08/15/24 14:30
15		4081519-15	Drinking Water	06/25/24 06:24	08/15/24 14:30
16		4081519-16	Drinking Water	06/25/24 06:26	08/15/24 14:30
17		4081519-17	Drinking Water	06/25/24 06:27	08/15/24 14:30
18		4081519-18	Drinking Water	06/25/24 06:30	08/15/24 14:30
19		4081519-19	Drinking Water	06/25/24 06:31	08/15/24 14:30
20		4081519-20	Drinking Water	06/25/24 06:33	08/15/24 14:30
21		4081519-21	Drinking Water	06/25/24 06:34	08/15/24 14:30
22		4081519-22	Drinking Water	06/25/24 06:37	08/15/24 14:30
23		4081519-23	Drinking Water	06/25/24 06:38	08/15/24 14:30
24		4081519-24	Drinking Water	06/25/24 06:40	08/15/24 14:30
25		4081519-25	Drinking Water	06/25/24 06:41	08/15/24 14:30

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.

Will Brewington, President

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

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
26		4081519-26	Drinking Water	06/25/24 06:45	08/15/24 14:30

Will Brewington, President

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

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

1

4081519-01 (Drinking Water)
Sampled on: 06/25/24 06:01

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	**185**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:29	AWH
Lead	**2.08**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:29	AWH

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

2

4081519-02 (Drinking Water)
Sampled on: 06/25/24 06:02

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	**185**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:31	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:31	AWH

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.

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

3

4081519-03 (Drinking Water)
Sampled on: 06/25/24 06:03

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	**307**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:33	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:33	AWH

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.

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

4

4081519-04 (Drinking Water)
Sampled on: 06/25/24 06:05

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	**300**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:38	AWH
Lead	**4.92**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:38	AWH

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.

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

5

4081519-05 (Drinking Water)
Sampled on: 06/25/24 06:06

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	**264**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:39	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:39	AWH

Will Brewington, President

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

6

4081519-06 (Drinking Water)
Sampled on: 06/25/24 06:08

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	**247**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:41	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:41	AWH

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

7

4081519-07 (Drinking Water)
Sampled on: 06/25/24 06:09

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	**908**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:43	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:43	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

8

4081519-08 (Drinking Water)
Sampled on: 06/25/24 06:11

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	**506**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:44	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:44	AWH

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.

Will Brewington, President

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www.mdspectral.com
MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

9

4081519-09 (Drinking Water)
Sampled on: 06/25/24 06:13

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	**276**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:46	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:46	AWH

Will Brewington, President

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Baltimore MD 21227
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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

10

4081519-10 (Drinking Water)
Sampled on: 06/25/24 06:14

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	**411**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:47	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:47	AWH

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Will Brewington, President

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

11

4081519-11 (Drinking Water)
Sampled on: 06/25/24 06:16

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	**272**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:49	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:49	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

12

4081519-12 (Drinking Water)
Sampled on: 06/25/24 06:17

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	08/19/24	08/19/24 20:51	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:51	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

13

4081519-13 (Drinking Water)
Sampled on: 06/25/24 06:20

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	**259**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:52	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:52	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

14

4081519-14 (Drinking Water)
Sampled on: 06/25/24 06:21

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	**345**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:57	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:57	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

15

4081519-15 (Drinking Water)
Sampled on: 06/25/24 06:24

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	**321**		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:59	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 20:59	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

16

4081519-16 (Drinking Water)
Sampled on: 06/25/24 06:26

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	**246**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:01	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:01	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

17

4081519-17 (Drinking Water)
Sampled on: 06/25/24 06:27

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	**301**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:02	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:02	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

18

4081519-18 (Drinking Water)
Sampled on: 06/25/24 06:30

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	**312**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:04	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:04	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

19

4081519-19 (Drinking Water)
Sampled on: 06/25/24 06:31

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	**388**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:05	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:05	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

20

4081519-20 (Drinking Water)
Sampled on: 06/25/24 06:33

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	**367**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:07	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:07	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

21

4081519-21 (Drinking Water)
Sampled on: 06/25/24 06:34

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	**399**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:09	AWH
Lead	**1.60**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:09	AWH

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

22

4081519-22 (Drinking Water)
Sampled on: 06/25/24 06:37

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	**233**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:10	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:10	AWH

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

23

4081519-23 (Drinking Water)
Sampled on: 06/25/24 06:38

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	**339**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:12	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:12	AWH

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

24

4081519-24 (Drinking Water)
Sampled on: 06/25/24 06:40

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	**265**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:24	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:24	AWH

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

25

4081519-25 (Drinking Water)
Sampled on: 06/25/24 06:41

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	**364**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:25	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:25	AWH

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

26

4081519-26 (Drinking Water)
Sampled on: 06/25/24 06:45

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	**435**		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:27	AWH
Lead	ND		ug/L	1.00	1.00	1	08/19/24	08/19/24 21:27	AWH

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

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 B408506 - 200.8-No Digestion Metals										
Blank (B408506-BLK1)					Prepared & Analyzed: 08/19/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B408506-BLK2)					Prepared & Analyzed: 08/19/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B408506-BLK3)					Prepared & Analyzed: 08/19/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B408506-BLK4)					Prepared & Analyzed: 08/19/24					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
LCS (B408506-BS1)					Prepared & Analyzed: 08/19/24					
Copper	11.1		1.00	ug/L	10.00		111	85-115		
Lead	11.2		1.00	ug/L	10.00		112	85-115		
LCS (B408506-BS2)					Prepared & Analyzed: 08/19/24					
Copper	11.4		1.00	ug/L	10.00		114	85-115		
Lead	11.6	S-98	1.00	ug/L	10.00		116	85-115		
LCS (B408506-BS3)					Prepared & Analyzed: 08/19/24					
Copper	11.1		1.00	ug/L	10.00		111	85-115		
Lead	11.5		1.00	ug/L	10.00		115	85-115		
LCS (B408506-BS4)					Prepared & Analyzed: 08/19/24					
Copper	11.0		1.00	ug/L	10.00		110	85-115		
Lead	11.3		1.00	ug/L	10.00		113	85-115		

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Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

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 B408506 - 200.8-No Digestion Metals										
Duplicate (B408506-DUP1)		**Source: 4081519-01**			Prepared & Analyzed: 08/19/24					
Copper	186		1.00	ug/L		185			0.6	20
Lead	1.84		1.00	ug/L		2.08			12	20
Duplicate (B408506-DUP2)		**Source: 4081519-11**			Prepared & Analyzed: 08/19/24					
Copper	269		1.00	ug/L		272			1	20
Lead	ND		1.00	ug/L		ND				20
Duplicate (B408506-DUP3)		**Source: 4081519-21**			Prepared & Analyzed: 08/19/24					
Copper	393		1.00	ug/L		399			2	20
Lead	1.60		1.00	ug/L		1.60			0.1	20
Duplicate (B408506-DUP4)		**Source: 4081520-01**			Prepared & Analyzed: 08/19/24					
Copper	273		1.00	ug/L		273			0.05	20
Lead	1.13		1.00	ug/L		1.10			3	20
Matrix Spike (B408506-MS1)		**Source: 4081519-01**			Prepared & Analyzed: 08/19/24					
Copper	198		1.00	ug/L	10.00	185	124	70-130		
Lead	12.6		1.00	ug/L	10.00	2.08	105	70-130		
Matrix Spike (B408506-MS2)		**Source: 4081519-11**			Prepared & Analyzed: 08/19/24					
Copper	282		1.00	ug/L	10.00	272	102	70-130		
Lead	11.2		1.00	ug/L	10.00	ND	112	70-130		
Matrix Spike (B408506-MS3)		**Source: 4081519-21**			Prepared & Analyzed: 08/19/24					
Copper	407		1.00	ug/L	10.00	399	84	70-130		
Lead	12.6		1.00	ug/L	10.00	1.60	110	70-130		
Matrix Spike (B408506-MS4)		**Source: 4081520-01**			Prepared & Analyzed: 08/19/24					
Copper	283		1.00	ug/L	10.00	273	104	70-130		
Lead	13.2		1.00	ug/L	10.00	1.10	121	70-130		

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MD DW LabID 153

Project: ACPS- Jefferson Houston

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

Reported:
08/26/24 11:06

Notes and Definitions

S-98	Spike recovery outside of established control 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

Will Brewington, President

Company Name: ECS Mid-Atlantic, LLC.	Project Manager:Lauren Kesslak	Analysis Requested	**CHAIN-OF-CUSTODY RECORD**
Project Name: 47:11652-E ACPS Jefferson Houston Lead and Copper in Drinking	Project ID: 47:11652-E Jefferson Houston		Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 reporting@mdspectral.com
Sampler(s): Zach Harrell	P.O. Number: 47:11652-E		
State of Origin: VA			Matrix Codes: NPW - non-potable water DW - drinking water

Field Sample ID:	Date	Time	DW	NPW	Soil	Other	Grab	Composite	# of containers	Preservative	Field Notes	MSS Lab ID
1	6/25/2024	6:01									Kitchen Dish Wash Sink -Left	4081519-01
2	6/25/2024	6:02									Kitchen Food Wash Sink	-02
3	6/25/2024	6:03									Kitchen Handwash Sink	-03
4	6/25/2024	6:05									Cafeteria Handwash	-04
5	6/25/2024	6:06									Cafeteria Bubbler	-05
6	6/25/2024	6:08									110 Pantry Sink	-06
7	6/25/2024	6:09									110 Bathroom Sink	-07
8	6/25/2024	6:11									1st Fl Hall-Across from 129 Bottle Fill	-08
9	6/25/2024	6:13									139 Sink	-09
10	6/25/2024	6:14									139 Bubbler	-10
11	6/25/2024	6:16									142 Sink	-11
12	6/25/2024	6:17									142 Bubbler	-12
13	6/25/2024	6:20									224 Sink	-13
14	6/25/2024	6:21									224 Bubbler	-14
15	6/25/2024	6:24									2nd Fl Hall Bubbler Next to 232	-15
16	6/25/2024	6:26									220 Sink	-16
17	6/25/2024	6:27									220 Bubbler	-17
18	6/25/2024	6:30									320 Sink	-18
19	6/25/2024	6:31									320 Bubbler	-19
20	6/25/2024	6:33									318 Bubbler	-20
21	6/25/2024	6:34									323 Sink	-21
22	6/25/2024	6:37									324 Sink	-22
23	6/25/2024	6:38									324 Bubbler	-23
24	6/25/2024	6:40									322 Sink	-24
25	6/25/2024	6:41									322 Bubbler	-25
26	6/25/2024	6:45									3rd Fl Hall- Bottle Fill next to 310	-26

Relinquished by: *(Signature)*	Date /Time	Relinquished by: *(Signature)*	Please indicate if any of the following certifications are required:	☐ Virginia VELAP ☐ Pennsylvania NELAP ☐ West Virginia DEP	☐ MD Drinking Water ☐ VA Drinking Water ☐ Other _____
(Printed)		*(Printed)*	Turn Around Time:	Delivery Method:	Lab Use:
Relinquished by: *(Signature)*	Date /Time 8/15/24 14:30	Received by lab: *(Signature)*	☐ Normal (7 day) ☐ 5 day ☐ 4 day ☐ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other: _____ ☐ Specific Due Date: _____	☐ Courier ☐ Client ☐ UPS ☐ Fed Ex ☐ USPS ☐ Other _____	Temp: 23.6 °C ☐ Received on Ice ☐ Received Same Day ☑ T-41 ☐ T-45
(Printed)		*(Printed)* Rachel Horner			Sample Disposal: ☐ Return to Client ☐ Disposal by lab ☐ Archive for __ days

Special Instructions / QC Requirements & Comments: