JAMES K POLK WATER SAMPLING 2023



JAMES K POLK ELEMENTARY SCHOOL

5000 POLK AVENUE ALEXANDRIA, VIRGINIA 22304

ECS PROJECT NO. 47:11652-E

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

OCTOBER 2, 2023





Geotechnical • Construction Materials • Environmental • Facilities

October 2, 2023

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

ECS Project No. 47:11652-E

Reference: James K Polk Water Sampling 2023, James K Polk Elementary School, 5000 Polk Avenue, Alexandria, Virginia

Dear Mr. Contreras:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the water sampling performed at James K Polk Elementary School located at 5000 Polk Avenue in Alexandria, Virginia. 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 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 Environmental Senior Project Manager LKesslak@ecslimited.com

703-471-8400

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

Ohn Chyn

October 2, 2023

TABL	E OF C	ONTENTS PA	AGE
1.0	PROJE	ECT DESCRIPTION	1
2.0	PURP	OSE	1
3.0	METH	ODOLOGY	1
	3.1	Lead and Copper in Drinking Water	1
4.0	RESUL	LTS	2
	4.1	Lead in Drinking Water	2
	4.2	Copper in Drinking Water	2
5.0	RECO	MMENDATIONS AND REGULATORY REQUIREMENTS	2
	5.1	Lead in Drinking Water	3
	5.2	Copper in Drinking Water	4
6.0	LIMIT	ATIONS	5



TABLE OF APPENDICES

Appendix I: Drawings

Appendix II: Sample Table

Appendix III: Laboratory Report(s)



1.0 PROJECT DESCRIPTION

The James K Polk Elementary School is a single-story school building located on 5000 Polk Avenue in Alexandria, Virginia. The building is currently occupied, and is used by the Alexandria City Public Schools (ACPS) as an elementary school and office facility. The site is located within the City of Alexandria and is under the jurisdiction of the federal 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 provide proactive - 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 SDWA. US EPA established a lead action level of 15 ppb (parts per billion) or 15 micrograms per liter (ug/L), and a copper action level of 1300 parts per billion (1300 ug/L).

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 ug/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 LCR. The results of this water sampling event will be 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. ACPS personnel granted ECS access to the building. 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. Some areas within the building were locked. ECS was not able to sample outlets in the locked areas.

4.0 RESULTS

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

4.1 Lead in Drinking Water

All but one of the samples collected were under the Commonwealth of Virginia action level of 10 ug/L. The sample collected from the 2nd floor bathroom sink contained 19.5 ug/L (parts per billion). In total, twenty four (24) water samples were collected from the building. A table of the collected samples and the associated analytical results can be found in the appendices. 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.

ECS performed re-sampling on September 14, 2023 in the 2nd floor bathroom sink. The sample result of the re-sampling was below the Virginia action level.

4.2 Copper in Drinking Water

None of the water samples collected were reported to have concentrations above the EPA action level of 1300 ug/L. In total, twenty four (24) water samples were collected from the building. A table of the collected samples and the associated analytical results can be found in the appendices. 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 James K Polk Water Sampling 2023, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.



5.1 Lead in Drinking Water

The water sample collected from the 2nd floor bathroom sink was reported to be above the lead action level. The other water samples collected were reported below the action level and Virginia's notifiable level. The EPA's 3Ts document recommends choosing one of several short-term or permanent control measures. The following are the recommended short-term and permanent control measure options:

Short-Term Control Options:

- Mark the sink as hand wash only
- Provide Filters at Problem Taps Point-of-use (POU) units are commercial available, can
 be relatively inexpensive, and quickly installed. The effectiveness of POUs can vary. POUs
 should be tested and certified against the NSF/ANSI Standard 53 (for lead removal) prior to
 installation. If POUs are installed, they should be incorporated into a routine maintenance
 plan;
- Flush Taps Prior to Use Flushing individual outlets or all outlets may be used as a short term option; and,
- Provide Bottled Water This control option is expensive and ECS does not recommend its use because of the relatively small number of elevated outlets.

Permanent Control Measures:

- Replacement of Problem Outlets This option is recommended as a cost effective permanent control measure if there are only a few elevated outlets;
- · Pipe Replacement;
- Provide Filters at Problem Taps: and,
- Reconfigure Plumbing.

After the implementation of a control option, ECS recommends follow-up sampling of the elevated outlets to evaluate effectiveness of the control option.

In addition to the remediation efforts for the elevated outlets, ECS recommends period follow-up screening be performed for the building. The EPA does not specify a specific time frame for which follow-up testing for schools needs to be performed. The EPA suggest that schools and child care facilities make testing a part of their routine building operations and states that annual monitoring provides information on changing concentrations and the effectiveness of remediation or treatment options.

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

Project No. 47:11652-E

> Site Visit: 6/22/23

ACPS James K. Polk Elementary School 5000 Polk Ave. Alexandria, VA 22304



Water Sampling Map- Level 2

Scale: NTS

Project No. 47:11652-E

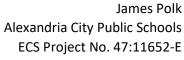
Site Visit: 6/22/23

Appendix II: Sample Table



Copper and Lead Drinking Water Results Table Sample Number Copper Result (ug/L) Lead Result (ug/L) 1 114.000 ND 2 118.000 ND 3 390.000 ND 4 180.000 3.910 5 204.000 7.040 6 260.000 9.340 7 177.000 1.070 8 178.000 1.660 9 80.100 1.380 10 319.000 ND 11 187.000 2.710 48.400 12 ND508.000 13 ND 14 123.000 1.040 15 55.100 ND 16 121.000 ND17 428.000 ND 18 179.000 1.150 19 158.000 2.100

Table Notes:





Site Visit: 06/22/2023

Sample Number	Copper Result (ug/L)	Lead Result (ug/L)
20	246.000	ND
21	155.000	ND
22	244.000	ND
23	302.000	2.020
24	1170.000	19.500

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).

Appendix III: Laboratory Report(s)



04 August 2023

Lauren Kesslak ECS-Chantilly 14026 Thunderbolt Place, Suite 100 Chantilly, VA 20151

RE: ACPS-JP

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 15:50.

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

Willesten

President



Reported:

08/04/23 16:57

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

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01		3072836-01	Drinking Water	06/22/23 05:02	07/28/23 15:50
02		3072836-02	Drinking Water	06/22/23 05:03	07/28/23 15:50
03		3072836-03	Drinking Water	06/22/23 05:07	07/28/23 15:50
04		3072836-04	Drinking Water	06/22/23 05:09	07/28/23 15:50
05		3072836-05	Drinking Water	06/22/23 05:10	07/28/23 15:50
06		3072836-06	Drinking Water	06/22/23 05:12	07/28/23 15:50
07		3072836-07	Drinking Water	06/22/23 05:13	07/28/23 15:50
08		3072836-08	Drinking Water	06/22/23 05:16	07/28/23 15:50
09		3072836-09	Drinking Water	06/22/23 05:17	07/28/23 15:50
10		3072836-10	Drinking Water	06/22/23 05:19	07/28/23 15:50
11		3072836-11	Drinking Water	06/22/23 05:21	07/28/23 15:50
12		3072836-12	Drinking Water	06/22/23 05:24	07/28/23 15:50
13		3072836-13	Drinking Water	06/22/23 05:27	07/28/23 15:50
14		3072836-14	Drinking Water	06/22/23 05:30	07/28/23 15:50
15		3072836-15	Drinking Water	06/22/23 05:31	07/28/23 15:50
16		3072836-16	Drinking Water	06/22/23 05:32	07/28/23 15:50
17		3072836-17	Drinking Water	06/22/23 05:33	07/28/23 15:50
18		3072836-18	Drinking Water	06/22/23 05:37	07/28/23 15:50
19		3072836-19	Drinking Water	06/22/23 05:39	07/28/23 15:50
20		3072836-20	Drinking Water	06/22/23 05:41	07/28/23 15:50
21		3072836-21	Drinking Water	06/22/23 05:43	07/28/23 15:50
22		3072836-22	Drinking Water	06/22/23 05:52	07/28/23 15:50
23		3072836-23	Drinking Water	06/22/23 05:53	07/28/23 15:50
24		3072836-24	Drinking Water	06/22/23 05:54	07/28/23 15:50

Milleburgher



Reported:

08/04/23 16:57

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

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.

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

01

3072836-01 (Drinking Water) Sampled on: 06/22/23 05:02

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	114		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:17	VVD			
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:17	VVD			

Will Buyle



Reported:

08/04/23 16:57

Project: ACPS-JP

Project Number: 47:11652-E

Project Manager: Lauren Kesslak

02

3072836-02 (Drinking Water) Sampled on: 06/22/23 05:03

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	118		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:19	VVD			
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:19	VVD			

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

03

3072836-03 (Drinking Water) Sampled on: 06/22/23 05:07

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst			
otal Metals Analysis by EPA 200.8DW Prepared by 200.8-No Digestion Metals												
Copper	390		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:20	VVD			
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:20	VVD			

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

04

3072836-04 (Drinking Water) Sampled on: 06/22/23 05:09

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	180		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:22	VVD			
Lead	3.91		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:22	VVD			

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

05

3072836-05 (Drinking Water) Sampled on: 06/22/23 05:10

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 204 ug/L 1.00 1.00 1 08/03/23 08/03/23 21:23 VVD												
Lead	7.04		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:23	VVD			

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

06

3072836-06 (Drinking Water) Sampled on: 06/22/23 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 200.8-No Digestion Metals												
Copper	260		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:25	VVD			
Lead	9.34		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:25	VVD			

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

07

3072836-07 (Drinking Water) Sampled on: 06/22/23 05:13

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	177		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:38	VVD			
Lead	1.07		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:38	VVD			

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

08

3072836-08 (Drinking Water) Sampled on: 06/22/23 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	178		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:40	VVD			
Lead	1.66		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:40	VVD			

Will Buyle



Reported:

08/04/23 16:57

Project: ACPS-JP

Project Number: 47:11652-E

Project Manager: Lauren Kesslak

09

3072836-09 (Drinking Water) Sampled on: 06/22/23 05:17

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	80.1		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:42	VVD			
Lead	1.38		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:42	VVD			

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

10

3072836-10 (Drinking Water) Sampled on: 06/22/23 05:19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8D	W Prepared	by 200.8-	No Digestion	n Metals					
Copper	319		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:43	VVD
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:43	VVD

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

Project Number: 47:11652-E

Project Manager: Lauren Kesslak

11

3072836-11 (Drinking Water) Sampled on: 06/22/23 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	187		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:45	VVD	
Lead	2.71		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:45	VVD	

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

12

3072836-12 (Drinking Water) Sampled on: 06/22/23 05:24

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8D	W Prepared	by 200.8-	No Digestion	n Metals					
Copper	48.4		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:47	VVD
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:47	VVD

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

Project Manager: Lauren Kesslak

Project Number: 47:11652-E

13

3072836-13 (Drinking Water) Sampled on: 06/22/23 05:27

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8DV	V Prepared	by 200.8-	No Digestio	n Metals					
Copper	508		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:52	VVD
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:52	VVD

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

14

3072836-14 (Drinking Water) Sampled on: 06/22/23 05:30

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	123		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:53	VVD	
Lead	1.04		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:53	VVD	

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

15

3072836-15 (Drinking Water) Sampled on: 06/22/23 05:31

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8I	W Prepared	by 200.8-	No Digestio	n Metals					
Copper	55.1		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:55	VVD
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:55	VVD

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

16

3072836-16 (Drinking Water) Sampled on: 06/22/23 05:32

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8D	W Prepared	by 200.8-	No Digestion	n Metals					
Copper	121		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:56	VVD
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 21:56	VVD

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

Project Number: 47:11652-E

Project Manager: Lauren Kesslak

17

3072836-17 (Drinking Water) Sampled on: 06/22/23 05:33

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8DV	V Prepared	by 200.8-	No Digestion	n Metals					
Copper	428		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:05	VVD
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:05	VVD

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

18

3072836-18 (Drinking Water) Sampled on: 06/22/23 05:37

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8D	W Prepared	by 200.8-	No Digestion	n Metals					
Copper	179		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:06	VVD
Lead	1.15		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:06	VVD

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

19

3072836-19 (Drinking Water) Sampled on: 06/22/23 05:39

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8D	W Prepared	by 200.8-	No Digestio	n Metals					
Copper	158		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:11	VVD
Lead	2.10		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:11	VVD

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

20

3072836-20 (Drinking Water) Sampled on: 06/22/23 05:41

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8D	W Prepared	by 200.8-	No Digestion	n Metals					
Copper	246		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:13	VVD
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:13	VVD

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

Project Number: 47:11652-E

Project Manager: Lauren Kesslak

21

3072836-21 (Drinking Water) Sampled on: 06/22/23 05:43

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8 D	W Prepared	by 200.8-	No Digestion	n Metals					
Copper	155		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:15	VVD
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:15	VVD

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

22

3072836-22 (Drinking Water) Sampled on: 06/22/23 05:52

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8D	W Prepared	by 200.8-	No Digestion	n Metals					
Copper	244		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:16	VVD
Lead	ND		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:16	VVD

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

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

23

3072836-23 (Drinking Water) Sampled on: 06/22/23 05:53

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8D	W Prepared	by 200.8-	No Digestion	n Metals					
Copper	302		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:18	VVD
Lead	2.02		ug/L	1.00	1.00	1	08/03/23	08/03/23 22:18	VVD

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

24

3072836-24 (Drinking Water) Sampled on: 06/22/23 05:54

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 200.8I	W Prepared	by 200.2-	Digested M	etals					
Copper	1170	•	ug/L	100	100	100	08/01/23	08/04/23 14:03	VVD
Lead	19.5		ug/L	1.00	(1.00)	1	08/01/23	08/04/23 02:01	VVD

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

Total Metals Analysis by EPA 200.8DW - Quality Control

			Reporting	***	Spike	Source	0/DEC	%REC	222	RPD	
Analyte	Result	Notes	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	
Batch B308035 - 200.2-Digested Metals											
Blank (B308035-BLK1)]	Prepared: 0	08/01/23 A1	nalyzed: 08	3/04/23			
Copper	ND		1.00	ug/L							
Lead	ND		1.00	ug/L							
LCS (B308035-BS1)]	Prepared: 0	08/01/23 Aı	nalyzed: 08	3/04/23			
Copper	10.5		1.00	ug/L	10.00		105	85-115			
Lead	9.65		1.00	ug/L	10.00		96	85-115			
Duplicate (B308035-DUP1)		Source	: 3072836-24]	Prepared: 0	08/01/23 Aı	nalyzed: 08	3/04/23			
Copper	1110	Е	1.00	ug/L	•	1170	•		6	20	
Lead	19.3		1.00	ug/L		19.5			0.8	20	
Matrix Spike (B308035-MS1)		Source	: 3072836-24]	Prepared: 0	08/01/23 Aı	nalyzed: 08	3/04/23			
Copper	1120	E, QM-4X	1.00	ug/L	10.00	1170	NR	70-130			
Lead	29.1		1.00	ug/L	10.00	19.5	97	70-130			
Batch B308091 - 200.8-No Digestion Mo	etals										
Blank (B308091-BLK1)]	Prepared &	: Analyzed:	08/03/23				
Copper	ND		1.00	ug/L	-	-					
Lead	ND		1.00	ug/L							
Blank (B308091-BLK2)]	Prepared &	: Analyzed:	08/03/23				
Copper	ND		1.00	ug/L							
Lead	ND		1.00	ug/L							
Blank (B308091-BLK3)]	Prepared &	: Analyzed:	08/03/23				
Copper	ND		1.00	ug/L	-	-					
Lead	ND		1.00	ug/L							

Will Buile



Reported:

08/04/23 16:57

Project: ACPS-JP

Project Number: 47:11652-E

Project Manager: Lauren Kesslak

Total Metals Analysis by EPA 200.8DW - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result No	tes Limit	Units	Level	Result	%REC	Limits	RPD	Limit	
Batch B308091 - 200.8-No Digest	ion Metals									
Blank (B308091-BLK4)]	Prepared &	Analyzed:	08/03/23				
Copper	ND	1.00	ug/L							
Lead	ND	1.00	ug/L							
Blank (B308091-BLK5)]	Prepared &	z Analyzed:	08/03/23				
Copper	ND	1.00	ug/L							
Lead	ND	1.00	ug/L							
Blank (B308091-BLK6)]	Prepared &	z Analyzed:	08/03/23				
Copper	ND	1.00	ug/L							
Lead	ND	1.00	ug/L							
Blank (B308091-BLK7)			1	Prepared &	Analyzed:	08/03/23				
Copper	ND	1.00	ug/L							
Lead	ND	1.00	ug/L							
Blank (B308091-BLK8)]	Prepared &	z Analyzed:	08/03/23				
Copper	ND	1.00	ug/L							
Lead	ND	1.00	ug/L							
Blank (B308091-BLK9)]	Prepared &	Analyzed:	08/03/23				
Copper	ND	1.00	ug/L							
Lead	ND	1.00	ug/L							
Blank (B308091-BLKA)]	Prepared &	Analyzed:	08/03/23				
Copper	ND	1.00	ug/L							
Lead	ND	1.00	ug/L							
Blank (B308091-BLKB)]	Prepared &	Analyzed:	08/03/23				
Copper	ND	1.00	ug/L							
Lead	ND	1.00	ug/L							

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.

Willesseyle



Reported:

08/04/23 16:57

Project: ACPS-JP

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

Total Metals Analysis by EPA 200.8DW - Quality Control

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Notes	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	
Batch B308091 - 200.8-No Digestion M	etals										
Blank (B308091-BLKC)				I	Prepared: (08/03/23 Ar	nalyzed: 08	/04/23			
Copper	ND		1.00	ug/L							
Lead	ND		1.00	ug/L							
Blank (B308091-BLKD)				I	Prepared: (08/03/23 Ar	nalyzed: 08	/04/23			
Copper	ND		1.00	ug/L							
Lead	ND		1.00	ug/L							
Blank (B308091-BLKE)				I	Prepared: (08/03/23 Ar	nalyzed: 08	/04/23			
Copper	ND		1.00	ug/L							
Lead	ND		1.00	ug/L							
Blank (B308091-BLKF)				I	Prepared: (08/03/23 Ar	nalyzed: 08	/04/23			
Copper	ND		1.00	ug/L							
Lead	ND		1.00	ug/L							
LCS (B308091-BS1)				I	Prepared &	a Analyzed:	08/03/23				
Copper	10.4		1.00	ug/L	10.00		104	85-115			
Lead	9.73		1.00	ug/L	10.00		97	85-115			
LCS (B308091-BS2)				I	Prepared &	k Analyzed:	08/03/23				
Copper	10.5		1.00	ug/L	10.00		105	85-115			
Lead	10.1		1.00	ug/L	10.00		101	85-115			
LCS (B308091-BS3)				I	Prepared &	k Analyzed:	08/03/23				
Copper	11.2		1.00	ug/L	10.00		112	85-115			
Lead	10.6		1.00	ug/L	10.00		106	85-115			
LCS (B308091-BS4)				I	Prepared &	k Analyzed:	08/03/23				
Copper	10.5		1.00	ug/L	10.00		105	85-115			
Lead	9.93		1.00	ug/L	10.00		99	85-115			

Millestende



Reported:

08/04/23 16:57

Project: ACPS-JP

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

Total Metals Analysis by EPA 200.8DW - Quality Control

			Reporting		Spike	Source		%REC		RPD
Analyte	Result	Notes	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
Batch B308091 - 200.8-No Digestion Met	tals									
LCS (B308091-BS5)				I	Prepared &	Analyzed:	08/03/23			
Copper	10.6		1.00	ug/L	10.00		106	85-115		
Lead	10.8		1.00	ug/L	10.00		108	85-115		
LCS (B308091-BS6)				I	Prepared &	Analyzed:	08/03/23			
Copper	10.5		1.00	ug/L	10.00		105	85-115		
Lead	9.90		1.00	ug/L	10.00		99	85-115		
LCS (B308091-BS7)				I	Prepared &	: Analyzed:	08/03/23			
Copper	10.7		1.00	ug/L	10.00	-	107	85-115		
Lead	10.0		1.00	ug/L	10.00		100	85-115		
LCS (B308091-BS8)				I	Prepared &	: Analyzed:	08/03/23			
Copper	10.4		1.00	ug/L	10.00	-	104	85-115		
Lead	9.76		1.00	ug/L	10.00		98	85-115		
LCS (B308091-BS9)				I	Prepared &	: Analyzed:	08/03/23			
Copper	10.7		1.00	ug/L	10.00		107	85-115		
Lead	10.1		1.00	ug/L	10.00		101	85-115		
LCS (B308091-BSA)				I	Prepared &	Analyzed:	08/03/23			
Copper	10.7		1.00	ug/L	10.00	-	107	85-115		
Lead	9.90		1.00	ug/L	10.00		99	85-115		
LCS (B308091-BSB)				I	Prepared &	Analyzed:	08/03/23			
Copper	11.0		1.00	ug/L	10.00		110	85-115		
Lead	10.2		1.00	ug/L	10.00		102	85-115		
LCS (B308091-BSC)				I	Prepared: (08/03/23 Ar	nalyzed: 08	/04/23		
Copper	10.5		1.00	ug/L	10.00		105	85-115		
Lead	9.85		1.00	ug/L	10.00		98	85-115		

Willistensten



Reported:

08/04/23 16:57

Project: ACPS-JP

Project Number: 47:11652-E

Project Manager: Lauren Kesslak

Total Metals Analysis by EPA 200.8DW - Quality Control

	Reporting				Spike Source			%REC		RPD	
Analyte	Result	Notes	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	
Batch B308091 - 200.8-No Digestion N	Metals										
LCS (B308091-BSD)					Prepared: 0	8/03/23 Ar	nalyzed: 08	/04/23			
Copper	10.6		1.00	ug/L	10.00		106	85-115			
Lead	9.95		1.00	ug/L	10.00		100	85-115			
LCS (B308091-BSE)					Prepared: 0	8/03/23 Ar	nalyzed: 08	/04/23			
Copper	10.6		1.00	ug/L	10.00		106	85-115			
Lead	9.93		1.00	ug/L	10.00		99	85-115			
LCS (B308091-BSF)					Prepared: 0	8/03/23 Ar	nalyzed: 08	/04/23			
Copper	10.9		1.00	ug/L	10.00		109	85-115			
Lead	10.1		1.00	ug/L	10.00		101	85-115			
Duplicate (B308091-DUP1)		Source: 3	072617-01		Prepared &	Analyzed:	08/03/23				
Copper	35.5		1.00	ug/L		35.7			0.4	20	
Lead	ND		1.00	ug/L		ND				20	
Duplicate (B308091-DUP2)		Source: 3	072831-11		Prepared &	Analyzed:	08/03/23				
Copper	104		1.00	ug/L		104			0.2	20	
Lead	ND		1.00	ug/L		ND				20	
Duplicate (B308091-DUP3)		Source: 3	072831-20		Prepared &	Analyzed:	08/03/23				
Copper	179		1.00	ug/L		181			0.9	20	
Lead	ND		1.00	ug/L		ND				20	
Duplicate (B308091-DUP4)		Source: 3	072832-10		Prepared &	Analyzed:	08/03/23				
Copper	554		1.00	ug/L		554			0.0001	20	
Lead	2.23		1.00	ug/L		2.01			10	20	
Duplicate (B308091-DUP5)		Source: 3	072832-20		Prepared &	Analyzed:	08/03/23				
Copper	379		1.00	ug/L		383			0.9	20	
Lead	ND		1.00	ug/L		ND				20	

Mobreyles



Reported:

08/04/23 16:57

Project: ACPS-JP

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

Total Metals Analysis by EPA 200.8DW - Quality Control

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Notes	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	
Batch B308091 - 200.8-No Digestion	1 Metals										
Duplicate (B308091-DUP6)		Source:	3072833-10]	Prepared &	Analyzed:	08/03/23				
Copper	190		1.00	ug/L		193			2	20	
Lead	19.8		1.00	ug/L		19.8			0.4	20	
Duplicate (B308091-DUP7)		Source:	3072833-20]	Prepared &	: Analyzed:	08/03/23				
Copper	214		1.00	ug/L		212			1	20	
Lead	ND		1.00	ug/L		ND				20	
Duplicate (B308091-DUP8)		Source:	3072834-10		Prepared &	: Analyzed:	08/03/23				
Copper	235		1.00	ug/L		233			1	20	
Lead	ND		1.00	ug/L		ND				20	
Duplicate (B308091-DUP9)		Source:	3072834-20		Prepared &	: Analyzed:	08/03/23				
Copper	242		1.00	ug/L		240			0.9	20	
Lead	3.04		1.00	ug/L		3.01			1	20	
Duplicate (B308091-DUPA)		Source:	3072835-10		Prepared &	: Analyzed:	08/03/23				
Copper	157		1.00	ug/L		156			0.4	20	
Lead	ND		1.00	ug/L		ND				20	
Duplicate (B308091-DUPB)		Source:	3072835-20		Prepared &	: Analyzed:	08/03/23				
Copper	366		1.00	ug/L		370			0.9	20	
ead	ND		1.00	ug/L		ND				20	
Duplicate (B308091-DUPC)		Source:	3072836-10		Prepared: 0	08/03/23 A	nalyzed: 08/	04/23			
Copper	323		1.00	ug/L		319			1	20	
Lead	ND		1.00	ug/L		ND				20	
Duplicate (B308091-DUPD)		Source:	3072836-20]	Prepared: 0	08/03/23 A	nalyzed: 08/	04/23			
Copper	247		1.00	ug/L		246			0.6	20	
Lead	ND		1.00	ug/L		ND				20	

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.

Willesseyle



Reported:

08/04/23 16:57

Project: ACPS-JP

Project Number: 47:11652-E

Project Manager: Lauren Kesslak

Total Metals Analysis by EPA 200.8DW - Quality Control

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Notes	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	
Batch B308091 - 200.8-No Digestion	Metals										
Duplicate (B308091-DUPE)		Source	: 3080108-01]	Prepared: (08/03/23 A1	nalyzed: 08	/04/23			
Copper	451		1.00	ug/L		451			0.05	20	
Lead	ND		1.00	ug/L		ND				20	
Duplicate (B308091-DUPF)		Source	: 3080108-05	1	Prepared: (08/03/23 A1	nalyzed: 08	/04/23			
Copper	5.50		1.00	ug/L		5.52			0.4	20	
Lead	ND		1.00	ug/L		ND				20	
Matrix Spike (B308091-MS1)		Source	: 3072617-01]	Prepared &	Analyzed:	08/03/23				
Copper	44.7		1.00	ug/L	10.00	35.7	90	70-130			
Lead	11.3		1.00	ug/L	10.00	ND	113	70-130			
Matrix Spike (B308091-MS2)		Source	: 3072831-11]	Prepared &	Analyzed:	08/03/23				
Copper	113		1.00	ug/L	10.00	104	87	70-130			
Lead	10.4		1.00	ug/L	10.00	ND	104	70-130			
Matrix Spike (B308091-MS3)		Source	: 3072831-20]	Prepared &	Analyzed:	08/03/23				
Copper	200	QM-4X	1.00	ug/L	10.00	181	189	70-130			
Lead	10.4		1.00	ug/L	10.00	ND	104	70-130			
Matrix Spike (B308091-MS4)		Source	: 3072832-10]	Prepared &	Analyzed:	08/03/23				
Copper	545	QM-4X	1.00	ug/L	10.00	554	NR	70-130			
Lead	12.1		1.00	ug/L	10.00	2.01	101	70-130			
Matrix Spike (B308091-MS5)		Source	: 3072832-20]	Prepared &	Analyzed:	08/03/23				
Copper	382	QM-4X	1.00	ug/L	10.00	383	NR	70-130			
Lead	10.3		1.00	ug/L	10.00	ND	103	70-130			
Matrix Spike (B308091-MS6)		Source	: 3072833-10]	Prepared &	Analyzed:	08/03/23				
Copper	195	QM-4X	1.00	ug/L	10.00	193	23	70-130			
Lead	29.9		1.00	ug/L	10.00	19.8	101	70-130			

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.

Willesseyle



Reported:

08/04/23 16:57

Project: ACPS-JP

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

Total Metals Analysis by EPA 200.8DW - Quality Control

		F	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Notes	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	
Batch B308091 - 200.8-No Digestion Met	als										
Matrix Spike (B308091-MS7)		Source:	3072833-20	I	Prepared &	: Analyzed:	08/03/23				
Copper	219	QM-4X	1.00	ug/L	10.00	212	67	70-130			
Lead	10.5		1.00	ug/L	10.00	ND	105	70-130			
Matrix Spike (B308091-MS8)		Source:	3072834-10	I	Prepared &	: Analyzed:	08/03/23				
Copper	240		1.00	ug/L	10.00	233	74	70-130			
Lead	10.1		1.00	ug/L	10.00	ND	101	70-130			
Matrix Spike (B308091-MS9)		Source:	3072834-20	I	Prepared &	: Analyzed:	08/03/23				
Copper	247		1.00	ug/L	10.00	240	78	70-130			
Lead	13.9		1.00	ug/L	10.00	3.01	109	70-130			
Matrix Spike (B308091-MSA)		Source:	3072835-10	I	Prepared &	: Analyzed:	08/03/23				
Copper	164		1.00	ug/L	10.00	156	74	70-130			
Lead	11.2		1.00	ug/L	10.00	ND	112	70-130			
Matrix Spike (B308091-MSB)		Source:	3072835-20	I	Prepared &	: Analyzed:	08/03/23				
Copper	370	QM-4X	1.00	ug/L	10.00	370	5	70-130			
Lead	10.9		1.00	ug/L	10.00	ND	109	70-130			
Matrix Spike (B308091-MSC)		Source:	3072836-10	I	Prepared: 0	08/03/23 A1	nalyzed: 08	/04/23			
Copper	324	QM-4X	1.00	ug/L	10.00	319	51	70-130			
Lead	11.0		1.00	ug/L	10.00	ND	110	70-130			
Matrix Spike (B308091-MSD)		Source:	3072836-20	I	Prepared: 0	08/03/23 Aı	nalyzed: 08	/04/23			
Copper	252	QM-4X	1.00	ug/L	10.00	246	64	70-130			
Lead	10.7		1.00	ug/L	10.00	ND	107	70-130			
Matrix Spike (B308091-MSE)		Source:	3080108-01	I	Prepared: 0	08/03/23 Aı	nalyzed: 08	/04/23			
Copper	453	QM-4X	1.00	ug/L	10.00	451	25	70-130			
Lead	12.2		1.00	ug/L	10.00	ND	122	70-130			



Reported:

08/04/23 16:57

Project: ACPS-JP

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

Total Metals Analysis by EPA 200.8DW - Quality Control

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Notes	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch B308091 - 200.8-No Digestion Metals

Matrix Spike (B308091-MSF)		Source: 3080108-05	I	Prepared: (08/03/23 Ar	nalyzed: 08	3/04/23
Copper	15.6	1.00	ug/L	10.00	5.52	101	70-130
Lead	10.5	1.00	ug/L	10.00	ND	105	70-130

Willessengten



Reported:

08/04/23 16:57

Project: ACPS-JP

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

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.

E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered

an estimate (CLP E-flag).

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

Willebrusten

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	Preservative Field Notes MSS Lab ID	19-Civic 3072836-01 A	BANDA SINC	6. June 180 -03		50- 21999 21	12 shk - 06	12	-		Ol-	□ Virginia VELAP □ MD Drinking Water	□ Pennsylvania NELAP □ VA Drinking Water	□ West Virginia DEP □ Other	Delivery Method: Lab Use: 5 6	☑ Courier Temp: ∠ > ℃ C	☐ Client ☐ Received on Ide	☐ UPS ☐ Received Same Day ☐ Fed Ex	☐ USPS Sample Disposal:	□ Other □ Return to Client	☐ Disposal by lab	☐ Archive for days
Analysis Requested			And the same of th		Jaddon War										>	Please indicate if any of	the following certifications	are required:	Turn Around Time:	Normal (7 day)	□ 5 day			□ Next Day	□ Other:	☐ Specific Due Date:
Project Manager:	·-	what Hig: 1162-e / Jumes & Pair	P.O. Number:		Dw Time Dw Soil Grab Grab Grab Composite Hot Containers	70:512	:03	59:	60:	91:	2l;	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u>1</u> ::		9 61:// A	Date /Time Relinquished by: (Signature)		(Printed)		Date /Time 2 Received by lab. Signature)	11/2/1/1	15:50 (Printed)				
Company Name:	のろれる下をつし	Project Name: List Paradic Router	Sampler(s): Hared	State of Origin: W	Field Sample ID:	9 10	0	50	3	B	8	07	30	60	9	Relinquished by: (Signature)	- Santimos	(Pripred), //.	(de (2010)	Relinquished by: (Signature)		(Printed)	Special Instructions / QC Requirements & Comments:			

Company Name:	Project	Project Manager:	::				\vdash		6	1000	Application Dominactor		CHAIN	OE-CLIST	CHAIN-OF-CLISTODY RECORD	Ę	
アーチャーア 500		I						-			nata character		,			-	
Project Name: KER DONAY UNTO- POROPIR MONTHY		Project ID: 47: 1652.6	A3	1 sheel	25	P	1	-					Maryl 1500 C E	land Spectral Services Caton Center Drive, St Baltimore, MD 21227	Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227		
Sampler(s): Hord/	P.O. N	P.O. Number:			·		Į.						410-24; rep(7-7600 * Fa orting@mds	410-247-7600 * Fax 410-247-7602 reporting@mdspectral.com	2	
State of Origin: V	_												Matrix Codes: NPW - non-potable water DW - drinking water	NPW - non-potable v DW - drinking water	stable water water		
Field Sample ID:	Date Time	MbW DM	lio2	. 19dtO	Grab	Composite	# of containers	4MP)	L	-			Preservative F	Field Notes	MSS Lab ID	ab ID	
	47.23 6:21					<u></u>							10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lampe Balwon Ink Oy Debr 12	3072836-	36-	-
	W1:5 8:23												A.S.	G Ballyoun J. by Nulvad	3	1	7
7	(2:1					<u> </u>							3 ~			1	3
2	:30							-					<u>7</u> -1-	Ktoron Lept Hondshik		}	—
<u>\</u>	£;												7.5	Kitcher Lor Much Sink		1	\overline{Q}
کے	28:									-			አ ኦ	KITCHE KRYF MWN SINC		ī	و
2	:35												ড	Gym Beleinfer		7	C
\$1	Ž						-						2	27 Sink		1	18
19	1.34												67	9 Sinc			0
M	アナ						V	7					***	Way South		7	3
Religguished by: (Signature)	Date /Time	Relinquished by: (Signature)	shedt	y: (Si	natur	(a)			lease	indic	Please indicate if any of		Virginia VELAP	0		; Wate	-
For Bush		·						主	ş folk	wing	the following certifications		Pennsylvania NELAP	ELAP 🗆	VA Drinking Water	Water	
(Printed)		(Printed)	_						מ	re re(are required:		West Virginia DEP	Ī	Other	-	
Cad throl								<u> </u>	n Arc	punc	Turn Around Time:	<u></u>	Delivery Method:		Lab Use:		
Relinquished by: (Signature)	Date /Time	Received by lab: (Signature)	d by la	ıb: (Si <u>ç</u>	matun	6				mal (Normal (7 day)		□ Courier	<u>=</u>	Temp:	ري	
									5 day	У́Е			□ Client		Received on Ide	<u>9</u>	
(Printed)		(Printed)	_						4 day	۸ŧ			□ UPS		□ Received Same Day	me Da	<u> </u>
									3 day	λŁ			□ Fed Ex			_	
Special Instructions / QC Requirements & Comments:	ements & Comm	ents:							Rus	Rush (2 day)	lay)			Sar	Sample Disposal:		
									Ne	Next Day			□ Other		☐ Return to Client	ient	
20.									Other:	er:					☐ Disposal by lab	ab	
									Spe	cific [Specific Due Date:				☐ Archive for	days	S

COMPANY Name:	LC.	Project	Mar	nage	r:	·						Anal	ysis f	Requ	ested	1		CHA	N-OF-0	CUST	ODY RECOR	D
Project Name: ACK DAWRING Works Points Sampler(s): ZCLL HOTT State of Origin: VA		Project 47: P.O. Nu				ACI	pJ s K	. Pú)	K		And the state of t		Turni Akkara				The state of the s	150 410-	0 Caton Baltim 247-7600 eporting	Center ore, M O * Fa @mds		
Field Sample ID:	Date	Time	DW	NPW	Soil	Other	Grab	Composite	# of containers	of the same	NA STANK							Preservative			MSS Lab	DID
21	622-23	5:43								1									31 SIh/		3072836	0-21
2i		1:57								\top									Hadray &	7		
13		:53								T							<u> </u>		CLIVICA	-5 ala ar-		- <u>7</u> 2 -23
74	V	4 :25	1							1	킨								stat out stat di stat at	12-57 12-57		-24
Relinquished by: (Signatura)	Date	I /Time		nquish	ned b	y: (5ig	gnatu	ire)	i			ease i follov			-			Virginia VELA Pennsylvania			MD Drinking V VA Drinking W	
(Printed) Live	Ī		(Prin	ted)							T.,,,,,,			uire				West Virginia		_	Other Use:	
Relinquished by: (Signature)	Date	/Time	Rece	ived l	by lab	o: (Sig	natu	re)				Arou Norr						Delivery Metl	10α:	i	use: າp:°(L
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•			•			,				5 day	-	, uu,	,			□ Client			Received on Id	T
(Printed)			(Prin	ted)		· · · · · · · · · · · · · · · · · · ·						4 day	-					□ UPS		1	Received Same	
												3 day						☐ Fed Ex				
Special Instructions / QC Requ	iirements 8	Comme	ents:									Rush						□ USPS			ple Disposal:	
												Next	-					□ Other		1	Return to Clie	
												Othe Spec			a+a.					ı	Disposal by lat	į
L								,			Ц	Shec	IIIC L	ue D	ale.			1		1 1	Archive for	days





21 September 2023

Lauren Kesslak ECS-Chantilly 14026 Thunderbolt Place, Suite 100 Chantilly, VA 20151

RE: ACPS LEAD WATER SAMPLING JAMES POLK

Enclosed are the results of analyses for samples received by the laboratory on 09/15/23 14:40.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

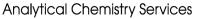
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Will Brewington

Ulliburghe

President





1500 Caton Center Dr Suite

Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/21/23 14:33

Analytical Results

Project: ACPS LEAD WATER SAMPLING JAMES POLK

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

Client Sample ID Alternate Sample ID Laboratory ID Matrix Date Sampled Date Received 01-52 3091517-01 Drinking Water 09/14/23 05:17 09/15/23 14:40

Willistensten

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





Reported: 09/21/23 14:33

Analytical Results

Project: ACPS LEAD WATER SAMPLING JAMES POLK

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

01-52

3091517-01 (Drinking Water) Sampled on: 09/14/23 05:17

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Total Metals Analysis by EPA 20	00.8DW Prep	ared by	200.8-No Γ	igestion Metals					
Lead	1.11		ug/L	1.00	1.00	1	09/20/23	09/20/23 13:55	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.

Milleburgher



enelac =

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

Reported: 09/21/23 14:33

Analytical Results

Project: ACPS LEAD WATER SAMPLING JAMES POLK

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

Notes and Definitions

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

If this report contains any samples analyzed for gasoline range organics (GRO) by EPA Method 8015C and no trip blank was shipped, stored, and received with the sample(s) as required by Section 3.1 of the EPA Method, the sample analysis contained in this report cannot exclude the possibility that any reportable GRO measurement was due to environmental contamination of the sample during shipping or storage.

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.

Milleburgher

Company Name:		Manage							A	naly	sis R	eque	estec	ł				CHAIN-	OF-CU	STODY	REC	ORD	
Project Name: ACPS Lead Later Sampling James Polk Sampler(s):	Project	52-		lal	<													1500 (1 410–24	Caton Ce Baltimor 77600	ectral Servicenter Drive, e, MD 2122 Fax 410-2	Suite 27 47–76	G	
William Sargent	1.0.1	ппост.				tainers											1	trix Codes: NW (potable wate	(nonpot				
Field Sample ID	Date	Time	Water PL	Soil	Other	No. of Containers	Lead										1	servative: 1+1 HCL, H ₂ SO ₄ , Methanol, ₂ S ₂ O ₃ , NaHCO ₃	Chloi Requ	rine, QC est, Trip	M	SS Lab ID	
01-52	9/14	5:17	X			- [Х											HNO3			3	0915	17-0
			<u></u>									<u> </u>								Received by:	(Clanate	ura!	
Relinquished by: (Signature) (Printed)	Q / 11		Recei	ved b	y: (Sig	gnatui	re)				Relii	nquisl	ned b	γ: <i>(Si</i>	ignatu	ure)		Date/Tir	ne	Received by:	ioignati		
(Printed) William Sargent	12:0	F	(Prin	ted)							(Pri	nted)								(Printed)			
Relinquished by: (Signature)	Date/	, 1		17	y Lab	, f Oi gi	nature)			Tur	n Ar	ounc	Tir	ne:			Lab Use:		2 3	. (ر آ	
(Printed)	9-15 14:		(PAR	/ <u>/ /</u> (ted) / /	<u>/</u> 	· /	 	5	Je	. V		Norr 5 da 4 da 3 da	mal (y y y	(7 da	ay)			□ Receive □ Receive □ Preserv	d same e ation Ap	day	•		
Delivery Method: Special In Courier Client UPS FedEx	structions	s/QC Rec	uire	men	ts &						0	Rus Next Othe Spe	h (2 d Day er:		_	te: _		Sample Dis Return t Disposa Archive	o Client I by lab	_ days			
USPS Other:																						Page 5	of 5