



COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MO
LEAD AND COPPER MONITORING
SUMMARY REPORT

DATE: JANUARY 6, 2022

FACILITY NAME: FAIRVIEW ELEMENTARY SCHOOL

A. SAMPLE COLLECTION

- | | |
|--|--------|
| 1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY | 37 |
| 2. PERCENTAGE OF SAMPLES BELOW COPPER ACTION LIMITS | 100.0% |
| 1. COPPER ACTION LIMIT = 1,300 UG/ | |
| 3. PERCENTAGE OF SAMPLES BELOW LEAD ACTION LIMITS | 100.0% |
| 1. LEAD ACTION LIMIT = 15 UG/L | |
| (The requirement in the USEPA Lead and Copper Rule for public water supplies is 90% passing) | |

B. SAMPLE EXCEEDANCE

- | | |
|--|---|
| 1. NUMBER OF SAMPLES EXCEEDING COPPER ACTION LIMIT | 0 |
| 2. NUMBER OF SAMPLES EXCEEDING LEAD ACTION LIMIT | 0 |

C. CONCLUSION

This facility meets the (recommended) requirements of the United States Environmental Protection Agency (USEPA) and the published Lead and Copper Rule (LCR) of 1991 (reference: 40 CFR Part 141 Subpart I). Public Run Water Suppliers must comply with the USEPA law and the LCR. Columbia Water & Light is the publicly run water utility that serves this school.

Initially failed tests were resampled using the first flush method and tested for verification. Should the laboratory analysis reveal results that exceed the LCR action limits, you can utilize the recommendations within the LCR to address those specific locations. They include but are not limited to: flushing prior to use (make it a practice to run the water at each tap before use), repairing and/or replacing fixtures and/or piping and by not using the water for consumption. All are recommended by the Lead and Copper Rule.

Although the Lead and Copper Rule may not directly apply to Columbia Public Schools and each of its schools or support buildings that are part of the 2020 City of Columbia Water Quality Assessment Report; it is a common practice for experts in the field and members of the known industry to use the standard as a guideline for water assessment studies.

Prepared By:

Joshua D. Lehmen, PE



August 30, 2021

Josh Lehmen
Engineering Surveys & Services
1113 Fay Street
Columbia, MO 65201

RE: L14571

Dear Josh Lehmen:

Please find enclosed the analytical results for the **37** sample(s) the laboratory received on **8/16/21 3:40 pm** and logged in under work order **EH03510**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories, Inc. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lgrant@pdclab.com.

Sincerely,

Erin Lane
Project Manager



**SAMPLE RECEIPT CHECK LIST****Items not applicable will be marked as in compliance**

Work Order EH03510

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
NO	COC completed & legible
NO	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: EH03510-01
Name: 1. Kitchen West
Alias: FVE-KF-1

Sampled: 08/12/21 05:09
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	08/23/21 14:28	TJJ	EPA 200.8 REV 5.4
Lead	3.0	ug/L		15	08/23/21 14:28	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-02
Name: 2. Kitchen Center
Alias: FVE-KF-2

Sampled: 08/12/21 05:09
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	140	ug/L		1300	08/23/21 14:29	TJJ	EPA 200.8 REV 5.4
Lead	4.2	ug/L		15	08/23/21 14:29	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-03
Name: 3. Kitchen Southeast
Alias: FVE-KF-3

Sampled: 08/12/21 05:09
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	27	ug/L		1300	08/23/21 14:31	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/23/21 14:31	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-04
Name: 4. Kitchen Northeast
Alias: FVE-KF-4

Sampled: 08/12/21 05:09
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	36	ug/L		1300	08/23/21 14:32	TJJ	EPA 200.8 REV 5.4
Lead	2.2	ug/L		15	08/23/21 14:32	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03510-05
Name: 5. Room 106
Alias: FVE-106-DWF-1

Sampled: 08/12/21 05:23
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	59	ug/L		1300	08/23/21 14:41	TJJ	EPA 200.8 REV 5.4
Lead	9.4	ug/L		15	08/23/21 14:41	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-06
Name: 6. Room 107
Alias: FVE-107-DWF-2

Sampled: 08/12/21 05:24
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	77	ug/L		1300	08/23/21 14:43	TJJ	EPA 200.8 REV 5.4
Lead	4.0	ug/L		15	08/23/21 14:43	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-07
Name: 7. Room 108
Alias: FVE-108-DWF-3

Sampled: 08/12/21 05:25
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	94	ug/L		1300	08/23/21 14:44	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/23/21 14:44	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-08
Name: 8. Room 109
Alias: FVE-109-DWF-4

Sampled: 08/12/21 05:26
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	67	ug/L		1300	08/25/21 14:23	TJJ	EPA 200.8 REV 5.4
Lead	1.5	ug/L		15	08/25/21 14:23	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03510-09
Name: 9. Room 110
Alias: FVE-110-DWF-5

Sampled: 08/12/21 05:27
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	110	ug/L		1300	08/23/21 14:47	TJJ	EPA 200.8 REV 5.4
Lead	24	ug/L		**15	08/23/21 14:47	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-10
Name: 10. Room 114
Alias: FVE-114-TFL-1

Sampled: 08/12/21 05:30
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	120	ug/L		1300	08/23/21 14:49	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/23/21 14:49	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-11
Name: 11. Room 113
Alias: FVE-113-DWF-6

Sampled: 08/12/21 05:30
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	120	ug/L		1300	08/23/21 14:50	TJJ	EPA 200.8 REV 5.4
Lead	26	ug/L		**15	08/23/21 14:50	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-12
Name: 12. Room 115
Alias: FVE-115-DWF-7

Sampled: 08/12/21 05:36
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	110	ug/L		1300	08/23/21 14:52	TJJ	EPA 200.8 REV 5.4
Lead	9.6	ug/L		15	08/23/21 14:52	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03510-13
Name: 13. Room 118
Alias: FVE-118-DWF-8

Sampled: 08/12/21 05:37
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	71	ug/L		1300	08/23/21 15:01	TJJ	EPA 200.8 REV 5.4
Lead	12	ug/L		15	08/23/21 15:01	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-14
Name: 14. Room 119
Alias: FVE-119-DWF-9

Sampled: 08/12/21 05:38
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	95	ug/L		1300	08/23/21 15:03	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	08/23/21 15:03	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-15
Name: 15. Hall by 120
Alias: FVE-H120-EWC-1

Sampled: 08/12/21 05:39
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	100	ug/L		1300	08/23/21 15:04	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/23/21 15:04	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-16
Name: 16. Room 120
Alias: FVE-120-DWF-10

Sampled: 08/12/21 05:40
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	97	ug/L		1300	08/23/21 15:05	TJJ	EPA 200.8 REV 5.4
Lead	2.1	ug/L		15	08/23/21 15:05	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03510-17
Name: 17. Room 121
Alias: FVE-121-DWF-11

Sampled: 08/12/21 05:46
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	96	ug/L		1300	08/23/21 15:07	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/23/21 15:07	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-18
Name: 18. Room 122
Alias: FVE-122-DWF-12

Sampled: 08/12/21 05:41
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	08/23/21 15:08	TJJ	EPA 200.8 REV 5.4
Lead	17	ug/L		**15	08/23/21 15:08	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-19
Name: 19. Room 123
Alias: FVE-123-DWF-13

Sampled: 08/12/21 05:43
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	110	ug/L		1300	08/23/21 15:10	TJJ	EPA 200.8 REV 5.4
Lead	2.7	ug/L		15	08/23/21 15:10	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-20
Name: 20. Room 142
Alias: FVE-142-DWF-14

Sampled: 08/12/21 05:45
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/23/21 15:11	TJJ	EPA 200.8 REV 5.4
Lead	2.4	ug/L		15	08/23/21 15:11	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03510-21
Name: 21. Hall by 124
Alias: FVE-H124-EWC-2

Sampled: 08/12/21 05:47
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	300	ug/L		1300	08/23/21 15:21	TJJ	EPA 200.8 REV 5.4
Lead	5.3	ug/L		15	08/23/21 15:21	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-22
Name: 22. Room 124
Alias: FVE-124-DWF-15

Sampled: 08/12/21 05:47
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/23/21 15:22	TJJ	EPA 200.8 REV 5.4
Lead	24	ug/L		**15	08/23/21 15:22	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-23
Name: 23. Room 125
Alias: FVE-125-DWF-16

Sampled: 08/12/21 05:50
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	99	ug/L		1300	08/23/21 15:24	TJJ	EPA 200.8 REV 5.4
Lead	7.7	ug/L		15	08/23/21 15:24	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-24
Name: 24. Room 126
Alias: FVE-126-DWF-17

Sampled: 08/12/21 05:51
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	85	ug/L		1300	08/23/21 15:25	TJJ	EPA 200.8 REV 5.4
Lead	3.2	ug/L		15	08/23/21 15:25	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03510-25
Name: 25. Room 127
Alias: FVE-127-DWF-18

Sampled: 08/12/21 05:51
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	78	ug/L		1300	08/23/21 15:26	TJJ	EPA 200.8 REV 5.4
Lead	2.1	ug/L		15	08/23/21 15:26	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-26
Name: 26. Room 128
Alias: FVE-128-DWF-19

Sampled: 08/12/21 05:53
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	120	ug/L		1300	08/23/21 15:28	TJJ	EPA 200.8 REV 5.4
Lead	19	ug/L		**15	08/23/21 15:28	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-27
Name: 27. Hall by Main Office
Alias: FVE-EWC-3

Sampled: 08/12/21 05:05
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	250	ug/L		1300	08/23/21 15:29	TJJ	EPA 200.8 REV 5.4
Lead	4.0	ug/L		15	08/23/21 15:29	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-28
Name: 28. Main Office
Alias: FVE-NSF-1

Sampled: 08/12/21 05:05
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/23/21 15:31	TJJ	EPA 200.8 REV 5.4
Lead	1.1	ug/L		15	08/23/21 15:31	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03510-29
Name: 29. Room 100
Alias: FVE-100-DWF-20

Sampled: 08/12/21 05:07
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/23/21 15:40	TJJ	EPA 200.8 REV 5.4
Lead	23	ug/L		**15	08/23/21 15:40	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-30
Name: 30. Room 101
Alias: FVE-101-DWF-21

Sampled: 08/12/21 05:08
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	64	ug/L		1300	08/23/21 15:42	TJJ	EPA 200.8 REV 5.4
Lead	3.1	ug/L		15	08/23/21 15:42	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-31
Name: 31. Room 102
Alias: FVE-102-DWF-22

Sampled: 08/12/21 05:08
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	78	ug/L		1300	08/23/21 15:43	TJJ	EPA 200.8 REV 5.4
Lead	2.5	ug/L		15	08/23/21 15:43	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-32
Name: 32. In Cafeteria
Alias: FVE-EWC-4

Sampled: 08/12/21 05:11
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	220	ug/L		1300	08/23/21 15:45	TJJ	EPA 200.8 REV 5.4
Lead	5.3	ug/L		15	08/23/21 15:45	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03510-33
Name: 33. Room 103
Alias: FVE-103-DWF-23

Sampled: 08/12/21 05:17
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	68	ug/L		1300	08/23/21 15:46	TJJ	EPA 200.8 REV 5.4
Lead	1.1	ug/L		15	08/23/21 15:46	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-34
Name: 34. Room 140
Alias: FVE-140-DWF-24

Sampled: 08/12/21 05:20
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	190	ug/L		1300	08/23/21 15:48	TJJ	EPA 200.8 REV 5.4
Lead	2.2	ug/L		15	08/23/21 15:48	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-35
Name: 35. Hall by 104
Alias: FVE-H104-EWC-5

Sampled: 08/12/21 05:18
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	08/23/21 15:49	TJJ	EPA 200.8 REV 5.4
Lead	2.0	ug/L		15	08/23/21 15:49	TJJ	EPA 200.8 REV 5.4

Sample: EH03510-36
Name: 36. Room 104
Alias: FVE-104-DWF-25

Sampled: 08/12/21 05:19
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	89	ug/L		1300	08/23/21 15:50	TJJ	EPA 200.8 REV 5.4
Lead	5.6	ug/L		15	08/23/21 15:50	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03510-37
Name: 37. Room 105
Alias: FVE-105-DWF-26

Sampled: 08/12/21 05:20
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	57	ug/L		1300	08/23/21 16:00	TJJ	EPA 200.8 REV 5.4
Lead	8.5	ug/L		15	08/23/21 16:00	TJJ	EPA 200.8 REV 5.4



NOTES

Specifications regarding method revisions and method modifications used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Certified by: Erin Lane, Project Manager





CCDD

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

1		CLIENT Engineering Surveys & Services 1113 Fay Street Columbia, MO Josh Lehmen		PROJECT LOCATION Columbia, MO E-MAIL jlehmen@ess-inc.com		PURCHASE ORDER # 7-46-21		3		ANALYSIS REQUESTED		4		(FOR LAB USE ONLY) LOGIN # LOGGED BY: CLIENT: PROJECT: PROJ. MGR.: CUSTODY SEAL #:			
2		SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT) Fornicum Elementary School		DATE COLLECTED		TIME COLLECTED		SAMPLE TYPE GRAB		MATRIX TYPE		BOTTLE COUNT		PRES CODE CLIENT PROVIDED			
5		TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE		1 - HCL		2 - H2SO4		3 - HNO3		4 - NAOH		5 - NA2S2O3		6 - UNPRESERVED		7 - OTHER	
7		RELINQUISHED BY: (SIGNATURE) DATE TIME		RECEIVED BY: (SIGNATURE) DATE TIME		DATE RESULTS NEEDED		6		I understand that by initiating this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.		8		COMMENTS: (FOR LAB USE ONLY)			
8		INQUIRED BY: (SIGNATURE) DATE TIME		RECEIVED BY: (SIGNATURE) DATE TIME		DATE		TIME		SAMPLE TEMPERATURE UPON RECEIPT		9		CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED			
9		INQUIRED BY: (SIGNATURE) DATE TIME		RECEIVED BY: (SIGNATURE) DATE TIME		DATE		TIME		DATE AND TIME TAKEN FROM SAMPLE BOTTLE		10		DATE AND TIME TAKEN FROM SAMPLE BOTTLE			

Page 14 of 15

CHIAI TRAY 3310 DEV/ P

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Location:	Fairview <i>Elementary School</i>
Sample Date:	8/12/2021
Sample Time:	Various
Sampled By:	Josh Lehmen & Kyle Vidusic

Sample No.	Coding System	Description	Sample Collected
<i>S09</i> 1	FVE-KF-1	Kitchen West	Yes
<i>S09</i> 2	FVE-KF-2	Kitchen Center	Yes
<i>S09</i> 3	FVE-KF-3	Kitchen Southeast	Yes
<i>S09</i> 4	FVE-KF-4	Kitchen Northeast	Yes
<i>S23</i> 5	FVE-106-DWF-1	Room 106	Yes
<i>S24</i> 6	FVE-107-DWF-2	Room 107	Yes
<i>S25</i> 7	FVE-108-DWF-3	Room 108	Yes
<i>S26</i> 8	FVE-109-DWF-4	Room 109	Yes
<i>S27</i> 9	FVE-110-DWF-5	Room 110	Yes
<i>S30</i> 10	FVE-114-TFL-1	Room 114	Yes
<i>S30</i> 11	FVE-113-DWF-6	Room 113	Yes
<i>S30</i> 12	FVE-115-DWF-7	Room 115	Yes
<i>S37</i> 13	FVE-118-DWF-8	Room 118	Yes
<i>S38</i> 14	FVE-119-DWF-9	Room 119	Yes
<i>S39</i> 15	FVE-H120-EWC-1	Hall by 120	Yes
<i>S40</i> 16	FVE-120-DWF-10	Room 120	Yes
<i>S40</i> 17	FVE-121-DWF-11	Room 121	Yes
<i>S41</i> 18	FVE-122-DWF-12	Room 122	Yes
<i>S43</i> 19	FVE-123-DWF-13	Room 123	Yes
<i>S45</i> 20	FVE-142-DWF-14	Room 142	Yes
<i>S47</i> 21	FVE-H124-EWC-2	Hall by 124	Yes
<i>S47</i> 22	FVE-124DWF-15	Room 124	Yes
<i>S50</i> 23	FVE-125-DWF-16	Room 125	Yes
<i>S51</i> 24	FVE-126-DWF-17	Room 126	Yes
<i>S51</i> 25	FVE-127-DWF-18	Room 127	Yes
<i>S53</i> 26	FVE-128-DWF-19	Room 128	Yes
<i>S05</i> 27	FVE-EWC-3	Hall by Main Office	Yes
<i>S05</i> 28	FVE-NSF-1	Main Office	Yes
<i>S07</i> 29	FVE-100-DWF-20	Room 100	Yes
<i>S08</i> 30	FVE-101-DWF-21	Room 101	Yes
<i>S08</i> 31	FVE-102-DWF-22	Room 102	Yes
<i>S11</i> 32	FVE-EWC-4	In Cafeteria	Yes
<i>S17</i> 33	FVE-103-DWF-23	Room 103	Yes
<i>S20</i> 34	FVE-140-DWF-24	Room 140	Yes
<i>S18</i> 35	FVE-H104-EWC-5	Hall by 104	Yes
<i>S19</i> 36	FVE-104-DWF-25	Room 104	Yes
<i>S20</i> 37	FVE-105-DWF-26	Room 105	Yes
38	FVE-		
39	FVE-		



"First Flush" Resampling

ANALYTICAL RESULTS

Sample: EL04058-26
Name: 9. Room 110 - Drinking Water Fountain
Alias: FVE-110-DWF-5

Sampled: 12/14/21 05:10
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	41	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:11	KMC	EPA 200.8 REV 5.4
Lead	1.8	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:11	KMC	EPA 200.8 REV 5.4

Sample: EL04058-27
Name: 11. Room 113- Drinking Water Fountain
Alias: FVE-113-DWF-6

Sampled: 12/14/21 05:08
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	81	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:12	KMC	EPA 200.8 REV 5.4
Lead	5.8	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:12	KMC	EPA 200.8 REV 5.4

Sample: EL04058-28
Name: 18. Room 122- Drinking Water Fountain
Alias: FVE-122-DWF-12

Sampled: 12/14/21 05:06
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	140	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:14	KMC	EPA 200.8 REV 5.4
Lead	2.6	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:14	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EL04058-29
Name: 22. Room 124 - Drinking Water Fountain
Alias: FVE-124-DWF-15

Sampled: 12/14/21 05:05
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	86	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:16	KMC	EPA 200.8 REV 5.4
Lead	3.3	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:16	KMC	EPA 200.8 REV 5.4

Sample: EL04058-30
Name: 26. Room 128 - Drinking Water Fountain
Alias: FVE-128-DWF-19

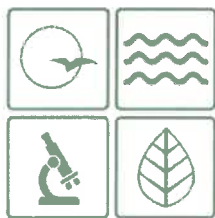
Sampled: 12/14/21 05:03
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	46	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:17	KMC	EPA 200.8 REV 5.4
Lead	2.2	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:17	KMC	EPA 200.8 REV 5.4

Sample: EL04058-31
Name: 29. Room 100 - Drinking Water Fountain
Alias: FVE-100-DWF-20

Sampled: 12/14/21 05:11
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	35	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:19	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:19	KMC	EPA 200.8 REV 5.4



Missouri Department of dnr.mo.gov
NATURAL RESOURCES

Michael L. Parson, Governor

Dru Buntin, Director

January 6, 2022

Mr. Michael Travis
Corporate Director of Quality Assurance
Pace Analytical Services, LLC – Peoria, Illinois (Lab #870)
2231 West Altorfer Drive
Peoria, IL 61615-1807

Dear Mr. Travis:

The Missouri Department of Natural Resources has received your notification that PDC Laboratories, LLC was purchased by Pace Analytical Services, LLC effective December 13, 2021 and that the new laboratory name is Pace Analytical Services, LLC – Peoria, Illinois. The Department has also received a copy of the new Environmental Laboratory Accreditation granted by the State of Illinois with your new laboratory name. Therefore, the Department hereby reciprocally certifies Pace Analytical Services, LLC – Peoria, Illinois under the provisions of the Missouri Safe Drinking Water Regulations to perform chemical analyses for public water systems in the State of Missouri.

Enclosed please find a certificate of approval and a certified parameter list for your laboratory. The certified parameter list references the parameters and methods of analysis that the Department has approved. Your certification will expire on June 30, 2022, and is contingent upon no changes of the approved methods or equipment and maintenance of certification from the primary certification authority.

Thank you for your efforts to comply with Missouri's laboratory certification requirements. Should there be any changes to your Illinois certification status, please notify this office within 30 days. Direct any notifications or inquiries related to the approval to Lauren Ferland of my staff, who may be reached at P.O. Box 176, Jefferson City, MO 65102, or by telephone at 573-526-0135.

Sincerely,

WATER PROTECTION PROGRAM

David J. Lamb
Public Drinking Water Branch Chief

DJL/lf

Enclosures

c: Mr. Richard Kirsch, Environmental Services Program



MISSOURI DEPARTMENT OF NATURAL RESOURCES

DRINKING WATER LABORATORY

CERTIFIED PARAMETER LIST

This is to certify that

Pace Analytical Services, LLC
- Peoria, Illinois

located at

2231 West Altorfer Drive, Peoria, Illinois 61615-1807

has been approved to perform the indicated procedures on drinking water under the Missouri Public Drinking Water Regulations (10 CSR 60-5.020). Specific method numbers or references are included in parenthesis when appropriate.

INORGANIC

SM 4500F-C

Fluoride

EPA 245.1

Mercury

SM 4500NO3-F

Nitrate, Nitrite

EPA 300.0

Fluoride, Nitrate, Nitrite

EPA 200.7

Barium, Beryllium, Cadmium,
Chromium, Copper, Nickel

EPA 335.4

Total cyanide

EPA 200.8

Antimony, Arsenic, Barium, Beryllium,
Cadmium, Chromium, Copper, Lead,
Mercury, Nickel, Selenium, Thallium

EPA 353.2

Nitrate, Nitrite, Total Nitrate and Nitrite

ORGANIC

EPA 504.1

Dibromochloropropane (DBCP), Ethylene dibromide (EDB)

EPA 515.3

2,4-D, Dalapon, Dinoseb, Pentachlorophenol, Picloram, 2,4,5-TP (Silvex)

EPA 524.2

Benzene, Carbon tetrachloride, Monochlorobenzene, o-Dichlorobenzene, para-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, cis-1-2-Dichloroethylene, trans-1-2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Styrene, Tetrachloroethylene, Toluene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Xylenes (total), Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane, Total THMs

EPA 525.2

Alachlor, Atrazine, Chlordane, Di(2-ethylhexyl)adipate, Di(2-ethylhexyl)phthalate, Endrin, Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Simazine, Toxaphene, PCBs (as Arochlors, qualitative, screening)

EPA 531.1

Carbofuran, Oxamyl (Vydate)

EPA 547

Glyphosate

EPA 548.1

Endothall

EPA 549.2

Diquat

EPA 550

Benzo(a)pyrene

EPA 552.2

Dibromoacetic acid, Dichloroacetic acid, Monobromoacetic acid, Monochloroacetic acid, Trichloroacetic acid

Pace Analytical Services, LLC – Peoria, Illinois

Expiration Date: June 30, 2022

Missouri Certificate No.: 870

Original Certifying State: Illinois

State of Missouri
Department of Natural Resources

**Certificate of Approval
for Chemical Laboratory Service**

This is to certify that

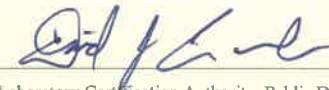
Pace Analytical Services, LLC – Peoria, Illinois

is hereby approved to perform the analysis of drinking water as specified on the
Certified Parameter List, which must accompany this certificate to be valid.

Certification Number 870

Date Issued January 6, 2022

Expiration Date June 30, 2022



Laboratory Certification Authority, Public Drinking Water Branch
Missouri Department of Natural Resources



Certification Program Manager, Environmental Services Program
Missouri Department of Natural Resources