



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

DATE: JANUARY 6, 2022

FACILITY NAME: JEFFERSON MIDDLE SCHOOL

A. SAMPLE COLLECTION

- | | |
|--|--------|
| 1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY | 46 |
| 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 **46** sample(s) the laboratory received on **8/16/21 3:40 pm** and logged in under work order **EH03523**. 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 EH03523

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: EH03523-01
Name: 1. Room 44 - Classroom Faucet
Alias: JMS-044-CF-1

Sampled: 08/12/21 08:55
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	1500	ug/L		**1300	08/25/21 14:32	TJJ	EPA 200.8 REV 5.4
Lead	130	ug/L		**15	08/25/21 14:32	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-02
Name: 2. Room 45 - Classroom Faucet
Alias: JMS-045-CF-2

Sampled: 08/12/21 08:55
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	310	ug/L		1300	08/25/21 14:34	TJJ	EPA 200.8 REV 5.4
Lead	2.1	ug/L		15	08/25/21 14:34	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-03
Name: 3. Room 43 - Classroom Faucet East
Alias: JMS-043-CF-3

Sampled: 08/12/21 08:49
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	08/25/21 14:35	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/25/21 14:35	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-04
Name: 4. Room 43 - Classroom Faucet South
Alias: JMS-043-CF-4

Sampled: 08/12/21 08:49
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	08/25/21 14:37	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/25/21 14:37	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-05**Name:** 5. Room 43 - Classroom Faucet West**Alias:** JMS-043-CF-5**Sampled:** 08/12/21 08:49**Received:** 08/16/21 15:40**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	210	ug/L		1300	08/25/21 14:43	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/25/21 14:43	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-06**Name:** 6. Room 42 - Classroom Faucet**Alias:** JMS-042-CF-6**Sampled:** 08/12/21 08:47**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	08/25/21 14:47	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/25/21 14:47	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-07**Name:** 7. Room 41 - Faucet Cot Room 1**Alias:** JMS-041-NSF-1**Sampled:** 08/12/21 08:42**Received:** 08/16/21 15:40**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	590	ug/L		1300	08/25/21 14:49	TJJ	EPA 200.8 REV 5.4
Lead	7.5	ug/L		15	08/25/21 14:49	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-08**Name:** 8. Room 41 - Faucet Cot Room 2**Alias:** JMS-041-NSF-2**Sampled:** 08/12/21 08:43**Received:** 08/16/21 15:40**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	490	ug/L		1300	08/25/21 14:50	TJJ	EPA 200.8 REV 5.4
Lead	4.2	ug/L		15	08/25/21 14:50	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-09
Name: 9. Room 41 - Faucet Rest Room
Alias: JMS-041-NSF-3

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	210	ug/L		1300	08/25/21 14:52	TJJ	EPA 200.8 REV 5.4
Lead	1.2	ug/L		15	08/25/21 14:52	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-10
Name: 10. Room 41 - Faucet Main
Alias: JMS-041-NSF-4

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	310	ug/L		1300	08/25/21 14:53	TJJ	EPA 200.8 REV 5.4
Lead	1.1	ug/L		15	08/25/21 14:53	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-11
Name: 11. Weight Room - Electric Water Cooler
Alias: JMS-WR-EWC-1

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	730	ug/L		1300	08/25/21 14:55	TJJ	EPA 200.8 REV 5.4
Lead	2.8	ug/L		15	08/25/21 14:55	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-12
Name: 12. By Guidance Office - Electric Water Cooler
Alias: JMS-141-EWC-2

Sampled: 08/12/21 08:29
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	280	ug/L		1300	08/25/21 14:56	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/25/21 14:56	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-13
Name: 13. Guidance Office
Alias: JMS-141-TLF-1

Sampled: 08/12/21 08:29
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	240	ug/L		1300	08/25/21 15:02	TJJ	EPA 200.8 REV 5.4
Lead	1.9	ug/L		15	08/25/21 15:02	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-14
Name: 14. Room 142 - Classroom Faucet
Alias: JMS-142-CF-7

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	570	ug/L		1300	08/25/21 15:07	TJJ	EPA 200.8 REV 5.4
Lead	3.0	ug/L		15	08/25/21 15:07	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-15
Name: 15. Room 143 - Classroom Faucet
Alias: JMS-143-CF-8

Sampled: 08/12/21 08:34
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	08/25/21 15:08	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/25/21 15:08	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-16
Name: 16. Room 144 - Classroom Faucet
Alias: JMS-144-CF-9

Sampled: 08/12/21 08:35
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	520	ug/L		1300	08/25/21 15:10	TJJ	EPA 200.8 REV 5.4
Lead	3.2	ug/L		15	08/25/21 15:10	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-17
Name: 17. Room 144 - Classroom Faucet
Alias: JMS-144-CF-10

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	490	ug/L		1300	08/25/21 15:11	TJJ	EPA 200.8 REV 5.4
Lead	3.2	ug/L		15	08/25/21 15:11	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-18
Name: 18. Room 145 - Classroom Faucet
Alias: JMS-145-CF-11

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	08/25/21 15:13	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/25/21 15:13	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-19
Name: 19. Room 139 - Classroom Faucet
Alias: JMS-139-CF-12

Sampled: 08/12/21 08:26
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	08/25/21 15:14	TJJ	EPA 200.8 REV 5.4
Lead	8.1	ug/L		15	08/25/21 15:14	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-20
Name: 20. Main Office - Faucet
Alias: JMS-__-TLF-2

Sampled: 08/12/21 08:12
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	08/25/21 15:16	TJJ	EPA 200.8 REV 5.4
Lead	3.8	ug/L		15	08/25/21 15:16	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-21
Name: 21. Hall by Office - Electric Water Cooler
Alias: JMS-__-EWC-3

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	08/25/21 15:22	TJJ	EPA 200.8 REV 5.4
Lead	4.3	ug/L		15	08/25/21 15:22	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-22
Name: 23. Room 101 - Classroom Faucet
Alias: JMS-101-CF-13

Sampled: 08/12/21 09:03
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	08/25/21 15:26	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	08/25/21 15:26	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-23
Name: 24. Hall by 101 - Electric Water Cooler
Alias: JMS-H101-EWC-4

Sampled: 08/12/21 09:03
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	660	ug/L		1300	08/25/21 15:28	TJJ	EPA 200.8 REV 5.4
Lead	360	ug/L		**15	08/25/21 15:28	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-24
Name: 25. Hall by 121 - Electric Water Cooler
Alias: JMS-H121-EWC-5

Sampled: 08/12/21 09:08
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	08/25/21 15:29	TJJ	EPA 200.8 REV 5.4
Lead	1.2	ug/L		15	08/25/21 15:29	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-25
Name: 26. Teachers Lounge - Faucet
Alias: JMS-__-TFL-3

Sampled: 08/12/21 09:10
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	08/25/21 15:31	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/25/21 15:31	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-26
Name: 27. Hall by 219 - Electric Water Cooler
Alias: JMS-H219-EWC-6

Sampled: 08/12/21 09:23
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	08/25/21 15:32	TJJ	EPA 200.8 REV 5.4
Lead	3.3	ug/L		15	08/25/21 15:32	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-27
Name: 28. Office Rm 215 - Faucet
Alias: JMS-215-TLF-4

Sampled: 08/12/21 09:24
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	8.7	ug/L		1300	08/25/21 15:34	TJJ	EPA 200.8 REV 5.4
Lead	4.1	ug/L		15	08/25/21 15:34	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-28
Name: 29. Room 213 - Classroom Faucet
Alias: JMS-213-CF-14

Sampled: 08/12/21 09:25
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	08/25/21 15:35	TJJ	EPA 200.8 REV 5.4
Lead	1.2	ug/L		15	08/25/21 15:35	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-29
Name: 30. Room 210 - Classroom Faucet
Alias: JMS-210-CF-15

Sampled: 08/12/21 09:27
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	230	ug/L		1300	08/25/21 15:42	TJJ	EPA 200.8 REV 5.4
Lead	14	ug/L		15	08/25/21 15:42	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-30
Name: 31. Hall by 205 - Electric Water Cooler
Alias: JMS-H205-EWC-7

Sampled: 08/12/21 09:28
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	08/25/21 15:43	TJJ	EPA 200.8 REV 5.4
Lead	1.2	ug/L		15	08/25/21 15:43	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-31
Name: 32. Room 209 Office - Faucet
Alias: JMS-209-TLF-5

Sampled: 08/12/21 09:34
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	400	ug/L		1300	08/25/21 15:44	TJJ	EPA 200.8 REV 5.4
Lead	32	ug/L		**15	08/25/21 15:44	TJJ	EPA 200.8 REV 5.4

Sample: EH03523-32
Name: 33. Hall by 307 - Electric Water Cooler
Alias: JMS-H307-EWC-8

Sampled: 08/12/21 09:35
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	08/25/21 09:51	KMC	EPA 200.8 REV 5.4
Lead	1.5	ug/L		15	08/25/21 09:51	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-33
Name: 34. Room 309 - Faucet
Alias: JMS-309-TLF-6

Sampled: 08/12/21 09:35
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	08/25/21 09:53	KMC	EPA 200.8 REV 5.4
Lead	14	ug/L		15	08/25/21 09:53	KMC	EPA 200.8 REV 5.4

Sample: EH03523-34
Name: 35. Room 310 - Classroom Faucet
Alias: JMS-310-CF-16

Sampled: 08/12/21 09:37
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	840	ug/L		1300	08/25/21 09:55	KMC	EPA 200.8 REV 5.4
Lead	63	ug/L		**15	08/25/21 09:55	KMC	EPA 200.8 REV 5.4

Sample: EH03523-35
Name: 36. Room 311 - Classroom Faucet
Alias: JMS-311-CF-17

Sampled: 08/12/21 09:37
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	08/25/21 09:56	KMC	EPA 200.8 REV 5.4
Lead	2.9	ug/L		15	08/25/21 09:56	KMC	EPA 200.8 REV 5.4

Sample: EH03523-36
Name: 37. Room 313 - Classroom Faucet
Alias: JMS-313-CF-18

Sampled: 08/12/21 09:37
Received: 08/16/21 15:40
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	08/25/21 09:58	KMC	EPA 200.8 REV 5.4
Lead	3.7	ug/L		15	08/25/21 09:58	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-37
Name: 38. Hall by 319 - Electric Water Cooler
Alias: JMS-H319-EWC-9

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	08/25/21 09:59	KMC	EPA 200.8 REV 5.4
Lead	4.6	ug/L		15	08/25/21 09:59	KMC	EPA 200.8 REV 5.4

Sample: EH03523-38
Name: 39. Media Center - Classroom Faucet
Alias: JMS-MC-CF-19

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	280	ug/L		1300	08/25/21 10:07	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/25/21 10:07	KMC	EPA 200.8 REV 5.4

Sample: EH03523-39
Name: 40. Hall by Main Entrance - Electric Water Cooler
Alias: JMS-EWC-10

Sampled: 08/12/21 09:50
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	08/25/21 10:08	KMC	EPA 200.8 REV 5.4
Lead	1.6	ug/L		15	08/25/21 10:08	KMC	EPA 200.8 REV 5.4

Sample: EH03523-40
Name: 41. Hall by Gym - Electric Water Cooler
Alias: JMS-GYM-EWC-11

Sampled: 08/12/21 09:16
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	08/25/21 10:10	KMC	EPA 200.8 REV 5.4
Lead	1.4	ug/L		15	08/25/21 10:10	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-41
Name: 42. Girls Locker - Electric Water Cooler
Alias: JMS-GLR-EWC-12

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	320	ug/L		1300	08/25/21 10:12	KMC	EPA 200.8 REV 5.4
Lead	5.4	ug/L		15	08/25/21 10:12	KMC	EPA 200.8 REV 5.4

Sample: EH03523-42
Name: 43. Boys Locker - Electric Water Cooler
Alias: JMS-BLR-EWC-13

Sampled: 08/12/21 09:16
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	08/25/21 10:13	KMC	EPA 200.8 REV 5.4
Lead	2.6	ug/L		15	08/25/21 10:13	KMC	EPA 200.8 REV 5.4

Sample: EH03523-43
Name: 44. Hall by Cafeteria - Electric Water Cooler
Alias: JMS-CAF-EWC-14

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	450	ug/L		1300	08/25/21 10:15	KMC	EPA 200.8 REV 5.4
Lead	1.4	ug/L		15	08/25/21 10:15	KMC	EPA 200.8 REV 5.4

Sample: EH03523-44
Name: 45. Kitchen - Pot Filler Faucet
Alias: JMS-KTN-KF-1

Sampled: 08/12/21 08:17
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	08/25/21 10:16	KMC	EPA 200.8 REV 5.4
Lead	18	ug/L		**15	08/25/21 10:16	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH03523-45
Name: 46. Kitchen - Island Faucet
Alias: JMS-KTN-KF-2

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

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	33	ug/L		1300	08/25/21 11:59	KMC	EPA 200.8 REV 5.4
Lead	5.0	ug/L		15	08/25/21 11:59	KMC	EPA 200.8 REV 5.4

Sample: EH03523-46
Name: 47. Kitchen - North Wall Faucet
Alias: JMS-KTN-KF-3

Sampled: 08/12/21 08:17
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	08/25/21 10:26	KMC	EPA 200.8 REV 5.4
Lead	3.2	ug/L		15	08/25/21 10:26	KMC	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



[illegible]

Location:	Jeff Middle School
Sample Date:	8/12/2021
Sample Time:	Various
Sampled By:	Josh Lehmen & Kyle Vidusic

Sample No.	Coding System	Description	Sample Collected
855 1	JMS-044-CF-1	Room 44 - Classroom Faucet	Yes
855 2	JMS-045-CF-2	Room 45 - Classroom Faucet	Yes
849 3	JMS-043-CF-3	Room 43 - Classroom Faucet East	Yes
849 4	JMS-043-CF-4	Room 43 - Classroom Faucet South	Yes
849 5	JMS-043-CF-5	Room 43 - Classroom Faucet West	Yes
847 6	JMS-042-CF-6	Room 42 - Classroom Faucet	Yes
842 7	JMS-041-NSF-1	Room 41 - Faucet Cot Room 1	Yes
843 8	JMS-041-NSF-2	Room 41 - Faucet Cot Room 2	Yes
843 9	JMS-041-NSF-3	Room 41 - Faucet Rest Room	Yes
843 10	JMS-041-NSF-4	Room 41 - Faucet Main	Yes
817 11	JMS-WR-EWC-1	Weight Room - Electric Water Cooler	Yes
829 12	JMS-141-EWC-2	By Guidance Office - Electric Water Cooler	Yes
829 13	JMS-141-TLF-1	Guidance Office	Yes
830 14	JMS-142-CF-7	Room 142 - Classroom Faucet	Yes
834 15	JMS-143-CF-8	Room 143 - Classroom Faucet	Yes
835 16	JMS-144-CF-9	Room 144 - Classroom Faucet	Yes
836 17	JMS-144-CF-10	Room 144 - Classroom Faucet	Yes
837 18	JMS-145-CF-11	Room 145 - Classroom Faucet	Yes
826 19	JMS-139-CF-12	Room 139 - Classroom Faucet	Yes
812 20	JMS-__-TLF-2	Main Office - Faucet	Yes
812 21	JMS-__-EWC-3	Hall by Office - Electric Water Cooler	Yes
22	JMS-GYM-DWF-1	Small Gym - Drinking Water Fountain - OFF	
903 23	JMS-101-CF-13	Room 101 - Classroom Faucet	Yes
903 24	JMS-H101-EWC-4	Hall by 101 - Electric Water Cooler	Yes
908 25	JMS-H121-EWC-5	Hall by 121 - Electric Water Cooler	Yes
910 26	JMS-__-TFL-3	Teachers Lounge - Faucet	Yes
923 27	JMS-H219-EWC-6	Hall by 219 - Electric Water Cooler	Yes
924 28	JMS-215-TLF-4	Office Rm 215 - Faucet	Yes
925 29	JMS-213-CF-14	Room 213 - Classroom Faucet	Yes
927 30	JMS-210-CF-15	Room 210 - Classroom Faucet	Yes
928 31	JMS-H205-EWC-7	Hall by 205 - Electric Water Cooler	Yes
934 32	JMS-209-TLF-5	Room 209 Office - Faucet	Yes
935 33	JMS-H307-EWC-8	Hall by 307 - Electric Water Cooler	Yes
935 34	JMS-309-TLF-6	Room 309 - Faucet	Yes
937 35	JMS-310-CF-16	Room 310 - Classroom Faucet	Yes
937 36	JMS-311-CF-17	Room 311 - Classroom Faucet	Yes
937 37	JMS-313-CF-18	Room 313 - Classroom Faucet	Yes
940 38	JMS-H319-EWC-9	Hall by 319 - Electric Water Cooler	Yes
946 39	JMS-MC-CF-19	Media Center - Classroom Faucet	Yes



"FIRST FLUSH" RESAMPLING

ANALYTICAL RESULTS

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	1100	ug/L		01/06/22 09:26	5	15	01/06/22 15:47	KMC	EPA 200.8 REV 5.4
Lead	9.2	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:36	KMC	EPA 200.8 REV 5.4

Sample: EL04058-39**Name:** 24. Hall by 101 - Electric Water Cooler**Alias:** JMS-H101-EWC-4**Sampled:** 12/09/21 05:56**Received:** 12/20/21 15:10**Matrix:** Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	210	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:37	KMC	EPA 200.8 REV 5.4
Lead	6.9	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:37	KMC	EPA 200.8 REV 5.4

Sample: EL04058-40**Name:** 32. Room 209 Office - Faucet**Alias:** JMS-209-TLF-5**Sampled:** 12/09/21 06:57**Received:** 12/20/21 15:10**Matrix:** Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	190	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:39	KMC	EPA 200.8 REV 5.4
Lead	6.9	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:39	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EL04058-41
Name: 35. Room 310 - Classroom Faucet
Alias: JMS-310-CF-16

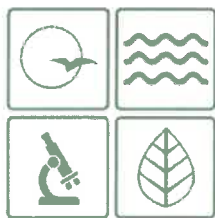
Sampled: 12/09/21 06:58
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	220	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:40	KMC	EPA 200.8 REV 5.4
Lead	3.7	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:40	KMC	EPA 200.8 REV 5.4

Sample: EL04058-42
Name: 45. Kitchen - Pot Filler Faucet
Alias: JMS-KTN-KF-1

Sampled: 12/09/21 07:00
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	110	ug/L		01/06/22 09:26	1	3.0	01/06/22 11:21	KMC	EPA 200.8 REV 5.4
Lead	6.1	ug/L		01/06/22 09:26	1	1.0	01/06/22 11:21	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

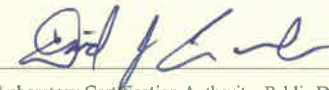
Pace Analytical Services, LLC – Peoria, Illinois

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