



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

DATE: JANUARY 6, 2022

FACILITY NAME: **MILL CREEK ELEMENTARY SCHOOL**

A. SAMPLE COLLECTION

- | | |
|--|--------|
| 1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY | 55 |
| 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 25, 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 **55** sample(s) the laboratory received on **8/9/21 8:00 am** and logged in under work order **EH01899**. 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 EH01899

YES	Samples received within temperature compliance when applicable
NO	COC present upon sample receipt
YES	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
NO	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: EH01899-01
Name: 1. Kitchen North Most
Alias: MCE-KF-1

Sampled: 08/05/21 05:37
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	250	ug/L		1300	08/17/21 10:37	KMC	EPA 200.8 REV 5.4
Lead	5.5	ug/L		15	08/17/21 10:37	KMC	EPA 200.8 REV 5.4

Sample: EH01899-02
Name: 2. Kitchen NE
Alias: MCE-KF-2

Sampled: 08/05/21 05:37
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	200	ug/L		1300	08/17/21 10:38	KMC	EPA 200.8 REV 5.4
Lead	1.7	ug/L		15	08/17/21 10:38	KMC	EPA 200.8 REV 5.4

Sample: EH01899-03
Name: 3. Kitchen NW
Alias: MCE-KF-3

Sampled: 08/05/21 05:37
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	190	ug/L		1300	08/17/21 10:40	KMC	EPA 200.8 REV 5.4
Lead	2.4	ug/L		15	08/17/21 10:40	KMC	EPA 200.8 REV 5.4

Sample: EH01899-04
Name: 4. Kitchen SW
Alias: MCE-KF-4

Sampled: 08/05/21 05:37
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	200	ug/L		1300	08/17/21 10:42	KMC	EPA 200.8 REV 5.4
Lead	1.1	ug/L		15	08/17/21 10:42	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-05
Name: 5. Kitchen SE
Alias: MCE-KF-5

Sampled: 08/05/21 05:37
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/17/21 10:49	KMC	EPA 200.8 REV 5.4
Lead	2.2	ug/L		15	08/17/21 10:49	KMC	EPA 200.8 REV 5.4

Sample: EH01899-06
Name: 6. Kitchen Kettle Faucet
Alias: MCE-KF-6

Sampled: 08/05/21 05:37
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	280	ug/L		1300	08/17/21 10:51	KMC	EPA 200.8 REV 5.4
Lead	32	ug/L		**15	08/17/21 10:51	KMC	EPA 200.8 REV 5.4

Sample: EH01899-07
Name: 7. Hall by Office
Alias: MCE-EWC-1

Sampled: 08/05/21 05:48
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	250	ug/L		1300	08/17/21 10:52	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 10:52	KMC	EPA 200.8 REV 5.4

Sample: EH01899-08
Name: 8. Nurses Office
Alias: MCE-NSF-1

Sampled: 08/05/21 05:48
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/17/21 10:54	KMC	EPA 200.8 REV 5.4
Lead	6.7	ug/L		15	08/17/21 10:54	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-09
Name: 9. Teachers Lounge Sink
Alias: MCE-TLF-1

Sampled: 08/05/21 05:55
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	120	ug/L		1300	08/17/21 10:56	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 10:56	KMC	EPA 200.8 REV 5.4

Sample: EH01899-10
Name: 10. Teachers Lounge Left Fridge
Alias: MCE-TLF-2

Sampled: 08/05/21 05:55
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	59	ug/L		1300	08/17/21 10:57	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 10:57	KMC	EPA 200.8 REV 5.4

Sample: EH01899-11
Name: 11. Teachers Lounge Right Fridge
Alias: MCE-TLF-3

Sampled: 08/05/21 05:55
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	6.2	ug/L		1300	08/17/21 10:59	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 10:59	KMC	EPA 200.8 REV 5.4

Sample: EH01899-12
Name: 12. Room 215
Alias: MCE-CF-215

Sampled: 08/05/21 06:20
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/17/21 11:00	KMC	EPA 200.8 REV 5.4
Lead	1.2	ug/L		15	08/17/21 11:00	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-13
Name: 13. Room 217 SW
Alias: MCE-DWF-1

Sampled: 08/05/21 06:12
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	210	ug/L		1300	08/17/21 11:08	KMC	EPA 200.8 REV 5.4
Lead	6.7	ug/L		15	08/17/21 11:08	KMC	EPA 200.8 REV 5.4

Sample: EH01899-14
Name: 14. Room 217 Center
Alias: MCE-DWF-2

Sampled: 08/05/21 06:12
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	200	ug/L		1300	08/17/21 11:09	KMC	EPA 200.8 REV 5.4
Lead	9.2	ug/L		15	08/17/21 11:09	KMC	EPA 200.8 REV 5.4

Sample: EH01899-15
Name: 15. Room 217 SE
Alias: MCE-CF-217

Sampled: 08/05/21 06:12
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	590	ug/L		1300	08/17/21 11:11	KMC	EPA 200.8 REV 5.4
Lead	27	ug/L		**15	08/17/21 11:11	KMC	EPA 200.8 REV 5.4

Sample: EH01899-16
Name: 16. Room 220 SE
Alias: MCE-DWF-220

Sampled: 08/05/21 08:57
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/17/21 11:13	KMC	EPA 200.8 REV 5.4
Lead	3.3	ug/L		15	08/17/21 11:13	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-17
Name: 17. Room 220 Center
Alias: MCE-DWF-220-2

Sampled: 08/05/21 06:00
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	190	ug/L		1300	08/17/21 11:14	KMC	EPA 200.8 REV 5.4
Lead	4.9	ug/L		15	08/17/21 11:14	KMC	EPA 200.8 REV 5.4

Sample: EH01899-18
Name: 18. Room 220 SW
Alias: MCE-CF-220

Sampled: 08/05/21 06:05
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	140	ug/L		1300	08/17/21 11:16	KMC	EPA 200.8 REV 5.4
Lead	3.3	ug/L		15	08/17/21 11:16	KMC	EPA 200.8 REV 5.4

Sample: EH01899-19
Name: 19. Room 218 S
Alias: MCE-DWF-218

Sampled: 08/05/21 06:15
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	250	ug/L		1300	08/17/21 11:17	KMC	EPA 200.8 REV 5.4
Lead	2.2	ug/L		15	08/17/21 11:17	KMC	EPA 200.8 REV 5.4

Sample: EH01899-20
Name: 20. Room 218 Center
Alias: MCE-DWF-218

Sampled: 08/05/21 06:15
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	300	ug/L		1300	08/17/21 11:19	KMC	EPA 200.8 REV 5.4
Lead	1.7	ug/L		15	08/17/21 11:19	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-21
Name: 21. Room 218 North
Alias: MCE-CF-218

Sampled: 08/05/21 06:15
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	08/17/21 11:26	KMC	EPA 200.8 REV 5.4
Lead	2.0	ug/L		15	08/17/21 11:26	KMC	EPA 200.8 REV 5.4

Sample: EH01899-22
Name: 22. Hall by Computer Lab
Alias: MCE-EWC-2

Sampled: 08/05/21 06:15
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	230	ug/L		1300	08/17/21 11:28	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 11:28	KMC	EPA 200.8 REV 5.4

Sample: EH01899-23
Name: 23. Room 205
Alias: MCE-DWF-205

Sampled: 08/05/21 06:30
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/17/21 11:30	KMC	EPA 200.8 REV 5.4
Lead	2.4	ug/L		15	08/17/21 11:30	KMC	EPA 200.8 REV 5.4

Sample: EH01899-24
Name: 24. Room 213
Alias: MCE-DWF-213

Sampled: 08/05/21 06:30
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/17/21 11:31	KMC	EPA 200.8 REV 5.4
Lead	3.0	ug/L		15	08/17/21 11:31	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-25
Name: 25. Room 202
Alias: MCE-DWF-202

Sampled: 08/05/21 06:35
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/17/21 11:33	KMC	EPA 200.8 REV 5.4
Lead	3.3	ug/L		15	08/17/21 11:33	KMC	EPA 200.8 REV 5.4

Sample: EH01899-26
Name: 26. Room 210
Alias: MCE-DWF-210

Sampled: 08/05/21 06:35
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	190	ug/L		1300	08/17/21 11:34	KMC	EPA 200.8 REV 5.4
Lead	2.4	ug/L		15	08/17/21 11:34	KMC	EPA 200.8 REV 5.4

Sample: EH01899-27
Name: 27. Room 295
Alias: MCE-CF-295

Sampled: 08/05/21 06:35
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	190	ug/L		1300	08/17/21 11:36	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 11:36	KMC	EPA 200.8 REV 5.4

Sample: EH01899-28
Name: 28. Room 292
Alias: MCE-CF-292

Sampled: 08/05/21 06:35
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/17/21 11:37	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 11:37	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-29
Name: 29. Room 216
Alias: MCE-CF-216

Sampled: 08/05/21 06:40
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	290	ug/L		1300	08/17/21 11:45	KMC	EPA 200.8 REV 5.4
Lead	7.5	ug/L		15	08/17/21 11:45	KMC	EPA 200.8 REV 5.4

Sample: EH01899-30
Name: 30. Hall by 267
Alias: MCE-EWC-3

Sampled: 08/05/21 06:40
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	330	ug/L		1300	08/17/21 11:47	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 11:47	KMC	EPA 200.8 REV 5.4

Sample: EH01899-31
Name: 31. Room 267
Alias: MCE-DWF-267

Sampled: 08/05/21 06:45
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/17/21 11:48	KMC	EPA 200.8 REV 5.4
Lead	2.3	ug/L		15	08/17/21 11:48	KMC	EPA 200.8 REV 5.4

Sample: EH01899-32
Name: 32. Room 261
Alias: MCE-DWF-261

Sampled: 08/05/21 06:45
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/17/21 11:50	KMC	EPA 200.8 REV 5.4
Lead	2.6	ug/L		15	08/17/21 11:50	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-33
Name: 33. Room 268
Alias: MCE-DWF-268

Sampled: 08/05/21 06:50
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	08/17/21 11:51	KMC	EPA 200.8 REV 5.4
Lead	2.6	ug/L		15	08/17/21 11:51	KMC	EPA 200.8 REV 5.4

Sample: EH01899-34
Name: 34. Room 264
Alias: MCE-DWF-264

Sampled: 08/05/21 06:50
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	140	ug/L		1300	08/17/21 11:53	KMC	EPA 200.8 REV 5.4
Lead	1.4	ug/L		15	08/17/21 11:53	KMC	EPA 200.8 REV 5.4

Sample: EH01899-35
Name: 35. Room 271
Alias: MCE-DWF-271

Sampled: 08/05/21 06:50
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/17/21 11:54	KMC	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	08/17/21 11:54	KMC	EPA 200.8 REV 5.4

Sample: EH01899-36
Name: 36. Room 290
Alias: MCE-CF-290

Sampled: 08/05/21 06:50
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/17/21 11:56	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 11:56	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-37
Name: 37. Room 287
Alias: MCE-CF-287

Sampled: 08/05/21 07:00
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/17/21 12:04	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 12:04	KMC	EPA 200.8 REV 5.4

Sample: EH01899-38
Name: 38. Room 280
Alias: MCE-DWF-280

Sampled: 08/05/21 07:00
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	200	ug/L		1300	08/17/21 12:05	KMC	EPA 200.8 REV 5.4
Lead	1.4	ug/L		15	08/17/21 12:05	KMC	EPA 200.8 REV 5.4

Sample: EH01899-39
Name: 39. Room 280
Alias: MCE-DWF-280

Sampled: 08/05/21 07:00
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	280	ug/L		1300	08/17/21 12:07	KMC	EPA 200.8 REV 5.4
Lead	9.2	ug/L		15	08/17/21 12:07	KMC	EPA 200.8 REV 5.4

Sample: EH01899-40
Name: 40. Hall by 127
Alias: MCE-EWC-4

Sampled: 08/05/21 07:05
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	140	ug/L		1300	08/17/21 12:08	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 12:08	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-42
Name: 42. Room 135
Alias: MCE-DWF-135

Sampled: 08/05/21 07:10
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/17/21 12:10	KMC	EPA 200.8 REV 5.4
Lead	1.7	ug/L		15	08/17/21 12:10	KMC	EPA 200.8 REV 5.4

Sample: EH01899-43
Name: 43. Room 132
Alias: MCE-DWF-132

Sampled: 08/05/21 07:10
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/17/21 12:12	KMC	EPA 200.8 REV 5.4
Lead	3.2	ug/L		15	08/17/21 12:12	KMC	EPA 200.8 REV 5.4

Sample: EH01899-44
Name: 44. Room 128
Alias: MCE-DWF-128

Sampled: 08/05/21 07:15
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/17/21 12:13	KMC	EPA 200.8 REV 5.4
Lead	3.7	ug/L		15	08/17/21 12:13	KMC	EPA 200.8 REV 5.4

Sample: EH01899-45
Name: 45. Room 131
Alias: MCE-DWF-131

Sampled: 08/05/21 07:15
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	08/17/21 12:15	KMC	EPA 200.8 REV 5.4
Lead	2.0	ug/L		15	08/17/21 12:15	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-46
Name: 46. Room 142
Alias: MCE-DWF-142

Sampled: 08/05/21 07:15
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	210	ug/L		1300	08/17/21 12:22	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 12:22	KMC	EPA 200.8 REV 5.4

Sample: EH01899-47
Name: 47. Room 140
Alias: MCE-CF-140

Sampled: 08/05/21 07:15
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/17/21 12:24	KMC	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	08/17/21 12:24	KMC	EPA 200.8 REV 5.4

Sample: EH01899-48
Name: 48. Room 121
Alias: MCE-DWF-121

Sampled: 08/05/21 07:15
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	340	ug/L		1300	08/17/21 12:26	KMC	EPA 200.8 REV 5.4
Lead	33	ug/L		**15	08/17/21 12:26	KMC	EPA 200.8 REV 5.4

Sample: EH01899-49
Name: 49. Hall by 117
Alias: MCE-EWC-5

Sampled: 08/05/21 07:20
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	260	ug/L		1300	08/17/21 12:27	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 12:27	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-50
Name: 50. Room 105
Alias: MCE-DWF-105

Sampled: 08/05/21 07:20
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	210	ug/L		1300	08/17/21 12:29	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 12:29	KMC	EPA 200.8 REV 5.4

Sample: EH01899-51
Name: 51. Room 114
Alias: MCE-DWF-114

Sampled: 08/05/21 07:20
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	200	ug/L		1300	08/17/21 12:30	KMC	EPA 200.8 REV 5.4
Lead	2.5	ug/L		15	08/17/21 12:30	KMC	EPA 200.8 REV 5.4

Sample: EH01899-52
Name: 52. Room 102
Alias: MCE-DWF-102

Sampled: 08/05/21 07:30
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	220	ug/L		1300	08/17/21 12:32	KMC	EPA 200.8 REV 5.4
Lead	2.9	ug/L		15	08/17/21 12:32	KMC	EPA 200.8 REV 5.4

Sample: EH01899-53
Name: 53. Room 111
Alias: MCE-DWF-111

Sampled: 08/05/21 07:30
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	08/17/21 12:33	KMC	EPA 200.8 REV 5.4
Lead	3.0	ug/L		15	08/17/21 12:33	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH01899-54
Name: 54. Room 146
Alias: MCE-CF-146

Sampled: 08/05/21 07:35
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	08/17/21 12:41	KMC	EPA 200.8 REV 5.4
Lead	1.5	ug/L		15	08/17/21 12:41	KMC	EPA 200.8 REV 5.4

Sample: EH01899-55
Name: 55. Room 144
Alias: MCE-CF-144

Sampled: 08/05/21 07:35
Received: 08/09/21 08:00
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	190	ug/L		1300	08/17/21 12:43	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 12:43	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





CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

Location:	Mill Creek Elementary School
Sample Date:	8/5/2021
Sample Time:	Various
Sampled By:	Kyle Vidusic

Sample No.	Coding System	Description	Sample Collected
1	MCE-KF-1	Kitchen Faucet - North Wall	Yes
2	MCE-KF-2	Kitchen Faucet - Northeast	Yes
3	MCE-KF-3	Kitchen Faucet - Northwest	Yes
4	MCE-KF-4	Kitchen Faucet - Southwest	Yes
5	MCE-KF-5	Kitchen Faucet - Southeast	Yes
6	MCE-KF-6	Kitchen Faucet - Cooker	Yes
7	MCE-EWC-1	Hall by Office - Electric Water Cooler	Yes
8	MCE-NSF-1	Nurses Station Faucet	Yes
9	MCE-TLF-1	Teachers Lounge Faucet Sink	Yes
10	MCE-TLF-2	Teachers Lounge Faucet Fridge 1	Yes
11	MCE-TLF-3	Teachers Lounge Faucet Fridge 2	Yes
12	MCE-215-CF-1	Room 215 - Classroom Faucet	Yes
13	MCE-DWF-1	Room 217 - Drinking Water Fountain - SW	Yes
14	MCE-DWF-2	Room 217 - Drinking Water Fountain - Center	Yes
15	MCE-217-CF-2	Room 217 - Classroom Faucet - Southeast	Yes
16	MCE-220-DWF-3	Room 220 - Drinking Water Fountain - SE	Yes
17	MCE-220-DWF-4	Room 220 - Drinking Water Fountain - Center	Yes
18	MCE-220-CF-3	Room 220 - Classroom Faucet - Southwest	Yes
19	MCE-218-DWF-5	Room 218 - Drinking Water Fountain - South	Yes
20	MCE-218-DWF-6	Room 218 - Drinking Water Fountain - Center	Yes
21	MCE-218-CF-4	Room 218 - Classroom Faucet - North	Yes
22	MCE-EWC-2	Hall by Computer Lab	Yes
23	MCE-205-DWF-7	Room 205 - Drinking Water Fountain	Yes
24	MCE-213-DWF-8	Room 213 - Drinking Water Fountain	Yes
25	MCE-202-DWF-9	Room 202 - Drinking Water Fountain	Yes
26	MCE-210-DWF-10	Room 210 - Drinking Water Fountain	Yes
27	MCE-295-CF-5	Room 295 - Classroom Faucet	Yes
28	MCE-292-CF-6	Room 292 - Classroom Faucet	Yes
29	MCE-216-CF-7	Room 216 - Classroom Faucet	Yes
30	MCE-H267-EWC-3	Hall by 267 - Electric Water Cooler	Yes
31	MCE-267-DWF-11	Room 267 - Drinking Water Fountain	Yes
32	MCE-261-DWF-12	Room 261 - Drinking Water Fountain	Yes
33	MCE-268-DWF-13	Room 268 - Drinking Water Fountain	Yes
34	MCE-264-DWF-14	Room 264 - Drinking Water Fountain	Yes
35	MCE-271-DWF-15	Room 271 - Drinking Water Fountain	Yes
36	MCE-290-CF-8	Room 290 - Classroom Faucet	Yes
37	MCE-287-CF-9	Room 287 - Classroom Faucet	Yes
38	MCE-280-DWF-16	Room 280 - Drinking Water Fountain	Yes
39	MCE-280-DWF-17	Room 280 - Drinking Water Fountain	Yes
40	MCE-H127-EWC-4	Hall by 127 - Electric Water Cooler	Yes

41	MCE-117-DWF-18	Room 117 - Drinking Water Fountain	Yes
42	MCE-135-DWF-19	Room 135 - Drinking Water Fountain	Yes
43	MCE-132-DWF-20	Room 132 - Drinking Water Fountain	Yes
44	MCE-128-DWF-21	Room 128 - Drinking Water Fountain	Yes
45	MCE-131-DWF-22	Room 131 - Drinking Water Fountain	Yes
46	MCE-142-DWF-23	Room 142 - Drinking Water Fountain	Yes
47	MCE-140-CF-10	Room 140 - Classroom Faucet	Yes
48	MCE-121-DWF-24	Room 121 - Drinking Water Fountain	Yes
49	MCE-H117-EWC-5	Hall By 117 - Electric Water Cooler	Yes
50	MCE-105-DWF-25	Room 105 - Drinking Water Fountain	Yes
51	MCE-114-DWF-26	Room 114 - Drinking Water Fountain	Yes
52	MCE-102-DWF-27	Room 102 - Drinking Water Fountain	Yes
53	MCE-111-DWF-28	Room 111 - Drinking Water Fountain	Yes
54	MCE-146-CF-11	Room 146 - Classroom Faucet	Yes
55	MCE-144-CF-12	Room 144 - Classroom Faucet	Yes
56	MCE-		
57	MCE-		
58	MCE-		



"FIRST FLUSH" RESAMPLING

ANALYTICAL RESULTS

Sample: EL04058-57
Name: 6. Kitchen Faucet - Cooker
Alias: MCE-KF-6

Sampled: 12/10/21 05:30
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	74	ug/L		01/06/22 09:26	1	3.0	01/06/22 11:52	KMC	EPA 200.8 REV 5.4
Lead	3.1	ug/L		01/06/22 09:26	1	1.0	01/06/22 11:52	KMC	EPA 200.8 REV 5.4

Sample: EL04058-58
Name: 15. Room 217 - Classroom Faucet - Southeast
Alias: MCE-217-CF-2

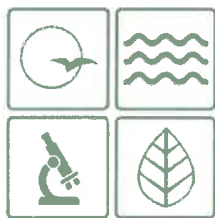
Sampled: 12/10/21 05:36
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	480	ug/L		01/06/22 09:26	1	3.0	01/06/22 12:00	KMC	EPA 200.8 REV 5.4
Lead	14	ug/L		01/06/22 09:26	1	1.0	01/06/22 12:00	KMC	EPA 200.8 REV 5.4

Sample: EL04058-59
Name: 48. Room 121 - Drinking Water Fountain
Alias: MCE-121-DWF-24

Sampled: 12/10/21 05:35
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	130	ug/L		01/06/22 09:26	1	3.0	01/06/22 12:01	KMC	EPA 200.8 REV 5.4
Lead	3.6	ug/L		01/06/22 09:26	1	1.0	01/06/22 12:01	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

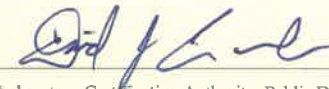
Pace Analytical Services, LLC – Peoria, Illinois

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