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

DATE: JANUARY 6, 2022

FACILITY NAME: MIDWAY HEIGHTS ELEMENTARY SCHOOL

A. SAMPLE COLLECTION

1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY

12

2. PERCENTAGE OF SAMPLES BELOW COPPER ACTION LIMITS

100.0%

1. COPPER ACTION LIMIT = 1,300 UG/

100.0%

PERCENTAGE OF SAMPLES BELOW LEAD ACTION LIMITS

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:

Jahn DLA

Joshua D. Lehmen, PE



PDC Laboratories

PROFESSIONAL • DEPENDABLE • COMMITTED

September 29, 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 **12** sample(s) the laboratory received on **7/29/21 3:20 pm** and logged in under work order **EH04403**. 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.

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. 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 Igrant@pdclab.com.

Sincerely,

Erin Lane

Project Manager

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SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

EH04403

Work Order

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
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials

Customer #: 275332 www.pdclab.com

NO

YES

NO

YES

YES

Trip blank(s) received

Short hold time analysis

Case narrative provided

Current PDC COC submitted

All non-field analyses received within holding times



ANALYTICAL RESULTS

Sample: EH04403-01

Name: 1. HALL BY MEDIA CENTER

Alias: MHE-EWC-1

Sampled: 07/23/21 06:26

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	330	ug/L	(08/20/21 09:54	1	3.0	08/20/21 11:55	KMC	EPA 200.8 REV 5.4
Lead	1.5	ug/L	(08/20/21 09:54	1	1.0	08/20/21 11:55	KMC	EPA 200.8 REV 5.4

Sample: EH04403-02

Name: 2. HALL BY ROOM 119

Alias: MHE-119-EWC-2

Sampled: 07/23/21 06:24

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	180	ug/L	(08/20/21 09:54	1	3.0	08/20/21 11:56	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	(08/20/21 09:54	1	1.0	08/20/21 11:56	KMC	EPA 200.8 REV 5.4

Sample: EH04403-03

Name: 3. HALL BY ROOM 102

Alias: MHE-102-EWC-3

Sampled: 07/23/21 06:34 **Received:** 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	100	ug/L	C	08/20/21 09:54	1	3.0	08/20/21 11:58	KMC	EPA 200.8 REV 5.4
Lead	1.3	ug/L	C	08/20/21 09:54	1	1.0	08/20/21 11:58	KMC	EPA 200.8 REV 5.4

Sample: EH04403-04

Name: 4. TEACHERS LOUNGE

Alias: MHE-TLF-1

Sampled: 07/23/21 06:38

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	110	ug/L	08/20/21 09:54	1	3.0	08/20/21 12:03	KMC	EPA 200.8 REV 5.4
Lead	2.2	ug/L	08/20/21 09:54	1	1.0	08/20/21 12:03	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH04403-05

Name: 5. NURSES STATION FAUCET - MAIN OFFICE

Alias: MHE-NSF-1

Sampled: 07/23/21 06:02

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	140	ug/L	0	8/20/21 09:54	1	3.0	08/20/21 12:04	KMC	EPA 200.8 REV 5.4
Lead	1.2	ug/L	0	8/20/21 09:54	1	1.0	08/20/21 12:04	KMC	EPA 200.8 REV 5.4

Sample: EH04403-06

Name: 6. HALL BY MAIN OFFICE

Alias: MHE-EWC-4

Sampled: 07/23/21 06:04 **Received:** 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier I	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	170	ug/L	08/	20/21 09:54	1	3.0	08/20/21 12:06	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	08/	20/21 09:54	1	1.0	08/20/21 12:06	KMC	EPA 200.8 REV 5.4

Sample: EH04403-07

Name: 7. ROOM 10 RESTROOM - OFF

Alias: MHE-RRF-1

Sampled: 07/23/21 06:00

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	150	ug/L	08/20/21 09:54	1	3.0	08/20/21 12:07	KMC	EPA 200.8 REV 5.4
Lead	6.1	ug/L	08/20/21 09:54	1	1.0	08/20/21 12:07	KMC	EPA 200.8 REV 5.4

Sample: EH04403-08 Name: 8. IN GYM

Alias: MHE-EWC-5

Sampled: 07/23/21 06:06 **Received:** 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	210	ug/L	08/20/21 09:54	1	3.0	08/20/21 12:09	KMC	EPA 200.8 REV 5.4
Lead	4.7	ug/L	08/20/21 09:54	1	1.0	08/20/21 12:09	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EH04403-09

Name: 9. HALL BY ROOM 203

Alias: MHE-203-EWC-6

Sampled: 07/23/21 06:12

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	79	ug/L	0	08/20/21 09:54	1	3.0	08/20/21 12:13	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	C	08/20/21 09:54	1	1.0	08/20/21 12:13	KMC	EPA 200.8 REV 5.4

Sample: EH04403-10 Name: 10. IN CAFETERIA

Alias: MHE-EWC-7

Sampled: 07/23/21 06:14 **Received:** 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	100	ug/L	(08/20/21 09:54	1	3.0	08/20/21 12:15	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	(08/20/21 09:54	1	1.0	08/20/21 12:15	KMC	EPA 200.8 REV 5.4

Sample: EH04403-11

Name: 11. KITCHEN FAUCET - WEST SINK

Alias: MHE-KF-1

Sampled: 07/23/21 06:16

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	120	ug/L	08/20/21 09:54	1	3.0	08/20/21 12:17	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	08/20/21 09:54	. 1	1.0	08/20/21 12:17	KMC	EPA 200.8 REV 5.4

Sample: EH04403-12

Name: 12. KITCHEN FAUCET - EAST SINK

Alias: MHE-KF-2

Sampled: 07/23/21 06:21 **Received:** 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	120	ug/L	08/20/21 09:54	1	3.0	08/20/21 12:21	KMC	EPA 200.8 REV 5.4
Lead	1.7	ug/L	08/20/21 09:54	1	1.0	08/20/21 12:21	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





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Location:	Midway Heights Elementary School
Sample Date:	7/23/2021
Sample Time:	Various
Sampled By:	Josh Lehmen

Sample No.	Coding System	Description	Sample Collected
1	MHE-EWC-1	Hall By Media Center	Yes
2	MHE-119- EWC-2	Hall By Room 119	Yes
3	MHE-102-EWC-3	Hall By Room 102	Yes
4	MHE-TLF-1	Teachers Lounge	Yes
5	MHE-NSF- 1	Nurse Station Faucet - Main Office	Yes
6	MHE-EWC-4	Hall By Main Office	Yes
7	MHE-RRF-1	Room 10 Restroom - Off	No
8	MHE-EWC-5	In Gym	Yes
9	MHE-203-EWC-6	Hall By Room 203	Yes
10	MHE-EWC-7	In Cafeteria	Yes
11	MHE-KF-1	Kitchen Faucet - West Sink	Yes
12	MHE-KF-2	Kitchen Faucet - East Sink	Yes
13	MHE-128-CF-1	Room 128 - Art Room Classroom Faucet	Yes
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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

SM 4500NO3-F

Nitrate, Nitrite

EPA 200.7

Barium, Beryllium, Cadmium,

Chromium, Copper, Nickel

EPA 200.8

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

EPA 245.1

Mercury

EPA 300.0

Fluoride, Nitrate, Nitrite

EPA 335.4

Total cyanide

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-ethylhexl)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	egd for -l
Date Issued	January 6, 2022	Laboratory Certification Authority, Public Drinking Water Branch Missouri Department of Natural Resources
Expiration Date	June 30, 2022	Rola Vise Certification Program Manager, Environmental Services Program

Missouri Department of Natural Resources