58

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

DATE: JANUARY 6, 2022

FACILITY NAME: CEDAR RIDGE ELEMENTARY SCHOOL

A. SAMPLE COLLECTION

1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY

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%

 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, Inc.

PROFESSIONAL • DEPENDABLE • COMMITTED

August 18, 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 **58** sample(s) the laboratory received on **7/29/21 3:20 pm** and logged in under work order **EG05990**. 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

EG05990

Work Order

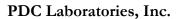
	=
YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
NO	COC completed & legible
YES	Sampler name & signature present
NO	Unique sample IDs assigned
YES	Sample collection location recorded
NO	Date & time collected recorded on COC
YES	Relinquished by client 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

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Case Narrative

ESS Sample Form was not supplied. ESS sample numbers and time of collection was taken from bottle labels.







Sample: EG05990-01

Name: 1

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 08:58

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	330	ug/L		1300	08/04/21 11:52	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 11:52	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-02

Name: 2.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 08:59

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	150	ug/L		1300	08/04/21 11:54	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 11:54	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-03

Name: 3.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:01

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	350	ug/L		1300	08/04/21 11:55	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 11:55	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-04

Name: 4.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:01

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	340	ug/L		1300	08/04/21 11:56	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 11:56	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-05

Sampled: 07/24/21 09:02

Name: 5

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/04/21 11:58	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 11:58	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-06

Name: 6.

Sampled: 07/24/21 09:05 **Received:** 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	240	ug/L		1300	08/04/21 11:59	TJJ	EPA 200.8 REV 5.4
Lead	1.2	ug/L		15	08/04/21 11:59	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-07

Name: 7.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:03

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	200	ug/L		1300	08/04/21 12:10	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:10	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-08

Name: 8.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:10 **Received:** 07/29/21 15:20

Unit Qualifier MCL **Parameter** Result Analyzed Analyst Method Total Metals - PIA Copper 230 ug/L 1300 08/04/21 12:12 TJJ EPA 200.8 REV 5.4 Lead < 1.0 ug/L 15 08/04/21 12:12 TJJ EPA 200.8 REV 5.4



Sample: EG05990-09

Sampled: 07/24/21 09:10

Name:

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	210	ug/L		1300	08/04/21 12:13	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:13	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-10

Sampled: 07/24/21 09:08

Name: 10. Received: 07/29/21 15:20

Drinking Water - Regular Sample Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	86	ug/L		1300	08/04/21 12:15	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:15	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-11

Sampled: 07/24/21 09:09

Name: 11.

Received: 07/29/21 15:20

Drinking Water - Regular Sample Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	660	ug/L		1300	08/04/21 12:16	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:16	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-12

Sampled: 07/24/21 09:11

Name:

Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	190	ug/L		1300	08/04/21 12:18	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:18	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-13

Name: 13.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:15

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	110	ug/L		1300	08/04/21 12:19	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:19	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-14

Name: 14.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:17 **Received:** 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	08/04/21 12:20	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:20	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-15

Name: 15.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:18

Received: 07/29/21 15:20

Total Metals - PIA	Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
	Total Metals - PIA							
Copper 290 ug/L 1300 08/04/21 12:34 TJJ EPA 200.8 REV 5.4	Copper	290	ug/L		1300	08/04/21 12:34	TJJ	EPA 200.8 REV 5.4
Lead < 1.0 ug/L 15 08/04/21 12:34 TJJ EPA 200.8 REV 5.4	Lead	< 1.0	ug/L		15	08/04/21 12:34	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-16

Name: 16.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:15 **Received:** 07/29/21 15:20

Unit Qualifier MCL **Parameter** Result Analyzed Analyst Method Total Metals - PIA Copper 110 ug/L 1300 08/04/21 12:36 TJJ EPA 200.8 REV 5.4 Lead 1.6 ug/L 15 08/04/21 12:36 TJJ EPA 200.8 REV 5.4

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Sample: EG05990-17

17. Name:

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:15

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	360	ug/L		1300	08/04/21 12:37	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:37	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-18

Name: 18.

Drinking Water - Regular Sample Matrix:

Sampled: 07/24/21 09:17 Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	310	ug/L		1300	08/04/21 12:39	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:39	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-19

Name: 19.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:18

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	13	ug/L		1300	08/04/21 12:40	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:40	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-20

Name:

Matrix: Drinking Water - Regular Sample Sampled: 07/24/21 09:18

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	360	ug/L		1300	08/04/21 12:42	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:42	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-21

Name: 21.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:20

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/04/21 12:43	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:43	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-22

Name: 22.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:23 **Received:** 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	120	ug/L		1300	08/04/21 12:45	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:45	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-23

Name: 23.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:25

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	220	ug/L		1300	08/04/21 12:55	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:55	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:55	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-24

Name: 24.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:24 **Received:** 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	08/04/21 12:56	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:56	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-25

Name: 25.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:27

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/04/21 12:58	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 12:58	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-26

Name: 26.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:30 **Received:** 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	580	ug/L		1300	08/04/21 12:59	TJJ	EPA 200.8 REV 5.4
Lead	7.3	ug/L		15	08/04/21 12:59	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-27

Name: 27.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:31

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	110	ug/L		1300	08/04/21 13:01	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 13:01	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-28

Name: 28.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:32

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	270	ug/L		1300	08/04/21 13:02	TJJ	EPA 200.8 REV 5.4
Lead	1.5	ug/L		15	08/04/21 13:02	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-29

29. Name:

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:35

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	100	ug/L		1300	08/04/21 13:04	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 13:04	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-30

Name: 30.

Drinking Water - Regular Sample Matrix:

Sampled: 07/24/21 09:36 Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	140	ug/L		1300	08/04/21 13:05	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 13:05	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-31

Name: 31.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:35

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	82	ug/L		1300	08/04/21 13:28	TJJ	EPA 200.8 REV 5.4
Lead	2.6	ug/L		15	08/04/21 13:28	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-32

Name:

Matrix: Drinking Water - Regular Sample Sampled: 07/24/21 09:32

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/04/21 13:30	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 13:30	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-33

Name: 33.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:40

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	08/04/21 13:31	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 13:31	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-34

Name: 34.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:38 **Received:** 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	460	ug/L		1300	08/04/21 13:33	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 13:33	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-35

Name: 35.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:37

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	18	ug/L		1300	08/04/21 13:34	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 13:34	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-36

Name: 36.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:38 **Received:** 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/04/21 13:35	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	08/04/21 13:35	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-37

Name: 37.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:41

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	140	ug/L		1300	08/04/21 13:37	TJJ	EPA 200.8 REV 5.4
Lead	2.0	ug/L		15	08/04/21 13:37	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-38

Name: 38.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:37 **Received:** 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	150	ug/L		1300	08/04/21 13:38	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 13:38	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-39

Name: 39.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:38 Received: 07/29/21 15:20

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	180	ug/L		1300	08/04/21 14:09	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 14:09	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-40

Name: 40.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:42

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/04/21 14:10	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 14:10	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-41

Name: 41.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:47

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	76	ug/L		1300	08/04/21 14:12	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 14:12	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-42

Name: 42.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:50 **Received:** 07/29/21 15:20

Parameter Result	Unit	Qualifier MCI	_ Analyzed	Analyst	Method
<u>Total Metals - PIA</u>					
Copper 77	ug/L	1300	08/04/21 14:13	TJJ	EPA 200.8 REV 5.4
Lead < 1.0	ug/L	15	08/04/21 14:13	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-43

Name: 43.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:51

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/04/21 14:15	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 14:15	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-44

Name: 44.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:50

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	110	ug/L		1300	08/04/21 14:16	TJJ	EPA 200.8 REV 5.4
Lead	2.5	ug/L		15	08/04/21 14:16	TJJ	EPA 200.8 REV 5.4

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Sampled: 07/24/21 09:50 Sample: EG05990-45 Received: 07/29/21 15:20 Name: 45.

Matrix: Drinking Water - Regular Sample

Result Unit Qualifier MCL Analyzed Analyst Method **Parameter** Total Metals - PIA Copper 260 1300 EPA 200.8 REV 5.4 ug/L 08/04/21 14:18 TJJ Lead < 1.0 15 08/04/21 14:18 TJJ EPA 200.8 REV 5.4

Sample: EG05990-46 Sampled: 07/24/21 09:53 Name: 46. Received: 07/29/21 15:20

ug/L

Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Method Analyst Total Metals - PIA 1300 Copper 130 ug/L 08/04/21 14:19 TJJ EPA 200.8 REV 5.4 Lead < 1.0 15 08/04/21 14:19 TJJ EPA 200.8 REV 5.4 ug/L

Sample: EG05990-47 Sampled: 07/24/21 09:55 Name: 47. Received: 07/29/21 15:20

Drinking Water - Regular Sample Matrix:

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 97 ug/L 1300 08/04/21 14:28 TJJ EPA 200.8 REV 5.4 Lead < 1.0 15 08/04/21 14:28 TJJ EPA 200.8 REV 5.4 ug/L

Sampled: 07/24/21 09:58 Sample: EG05990-48 Name: Received: 07/29/21 15:20

Drinking Water - Regular Sample Matrix:

Qualifier MCL Result Unit Method **Parameter** Analyzed Analyst **Total Metals - PIA** Copper 140 ug/L 1300 08/04/21 14:30 TJJ EPA 200.8 REV 5.4 Lead < 1.0 ug/L 15 08/04/21 14:30 TJJ EPA 200.8 REV 5.4

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Sample: EG05990-49

49.

Name: 49.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 09:58

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	190	ug/L		1300	08/04/21 14:31	TJJ	EPA 200.8 REV 5.4
Lead	2.6	ug/L		15	08/04/21 14:31	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-50

Name: 50.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 10:00 **Received:** 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	120	ug/L		1300	08/04/21 14:33	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 14:33	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-51

Name: 51.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 10:00

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	08/04/21 14:34	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 14:34	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-52

Name: 52.

Matrix: Drinking Water - Regular Sample

Sampled: 07/24/21 10:01

Received: 07/29/21 15:20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	190	ug/L		1300	08/04/21 14:36	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 14:36	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-53

Sampled: 07/24/21 10:02 53. Received: 07/29/21 15:20 Name:

Drinking Water - Regular Sample Matrix:

<u>Total Metals - PIA</u>					
Copper 92	ug/L	1300	08/04/21 14:37	TJJ	EPA 200.8 REV 5.4
Lead < 1.0	ug/L	15	08/04/21 14:37	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-54 Sampled: 07/24/21 10:10 Name: 54. Received: 07/29/21 15:20

Drinking Water - Regular Sample Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	08/04/21 14:39	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 14:39	TJJ	EPA 200.8 REV 5.4

Sample: EG05990-55 **Sampled:** 07/24/21 10:11 Name: 55. Received: 07/29/21 15:20

Drinking Water - Regular Sample Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper Lead	250 < 1.0	ug/L ug/L		1300 15	08/04/21 14:48 08/04/21 14:48	TJJ TJJ	EPA 200.8 REV 5.4 EPA 200.8 REV 5.4
Load	- 1.0	ug/L		10	00/04/21 14:40	100	LI 7 200.0 NEV 0.4

Sample: EG05990-56 **Sampled:** 07/24/21 10:11 Name: Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	08/04/21 14:50	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/04/21 14:50	TJJ	EPA 200.8 REV 5.4

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Sample: EG05990-57 Sampled: 07/24/21 10:12

Name: 57. Received: 07/29/21 15:20

Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method

 Total Metals - PIA

 Copper
 350
 ug/L
 1300
 08/04/21 14:51
 TJJ
 EPA 200.8 REV 5.4

 Lead
 < 1.0</td>
 ug/L
 15
 08/04/21 14:51
 TJJ
 EPA 200.8 REV 5.4

Sample: EG05990-58 Sampled: 07/24/21 10:13

Name:58.Received:07/29/21 15:20Matrix:Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA Copper 10 1300 08/04/21 14:52 TJJ EPA 200.8 REV 5.4 ug/L Lead 1.7 ug/L 15 08/04/21 14:52 TJJ EPA 200.8 REV 5.4

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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

Eni Mosane

Certified by: Erin Lane, Project Manager



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REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

			EAS MUST BE C	THE RESERVE AND PARTY OF THE PA	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	PARTY AND PERSONS ASSESSED FOR PARTY AND PARTY)		
Engineering Surveys & Services	L14571	NUMBER	Columb		PURCHAS	E ORDER #	3 ANA	ALYSIS REQUESTED	(FOR LAB USE ONLY)
ADDRESS	PHONE	NUMBER	E-M		DATE S	SHIPPED			LOGIN # EG 05990-58
1113 Fay Street	573-44	9-2646	jlehmen@e	ss-inc.com	7-16	-21			LOGGED BY:
COLUMBIA, N CONTACT PERSON Josh Lehmen	SAMPLER (PLEASE PRINT JOSH Leh SAMPLER'S SIGNATURE				MATRIX TYPES: WW. WASTEWATER DW. DRINKING WATER GW. GROUND WATER WMSI. SLUDGE AAS. NON AQUEOUS SOLID LCHT-LEACHATE OIL-OIL SO_SOIL SO_SOIL SO_SOIL		attead		PROJECT: PROJ. MGR.: CUSTODY SEAL #:
SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL, APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYP GRAB COM		BOTTLE	PRES CODE	Coff		REMARKS
Cedar Ridge From School	7/24/4		X			CLIENT PROVIDED	53		
CHEMICAL PRESERVATION CODES: 1-HCL 2-H2SO4	3 - HNO3 4 - NAC	DH 5 - NA	25203 6 – 1	INPRESERVED	7 – OTHER				
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHAI	NORMAL RUSH RGE)	1	DATE RESULTS NEEDED	6					p proceed with analysis, even though it may
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHO		Ĺ			Policy and th	he data will be	e qualified. Qua	ements as defined in the lified data may <u>NOT</u> be ad	receiving facility's Sample Acceptance cceptable to report to all regulatory authorities.
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FRO		DECEME	D DV. (CICNATUE		PROCEED			IFY RESULTS: (INITIALS)	
(7)	ATE	RECEIVE	ED BY: (SIGNATUR	7		TIME	1-21-71	8 COMMEN	ITS: (FOR LAB USE ONLY)
	ATE	RECEIME	ED BY: (SIGNATUR	RE) A		DATE	12.40		
	IME (Jul	mt)	11		TIME	10-01	SAMPLE TEMPERATI	JRE UPON RECEIPT 23.9 °C
RELINQUISHED BY: (SIGNATURE)	ATF-78-71	RECEIVE	D BY (SIGNATUR	RE)		P4T	20/11	SAMPLE(S) RECEIVE	RTED PRIOR TO RECEIPT Y ORN D ON IGE Y ORN CE NONCONFORMANT
John To	ME 15:20 h) .	CIL	الر		TIME	520	REPORT IS NEEDED	EN FROM SAMPLE BOTTLE
U Y Y								П	Page 21 of 22

Location:	Cedar Ridge Elementary School
Sample Date:	7/24/2021
Sample Time:	Various
Sampled By:	Cullan Even and Joe Rolesing

Sample No.	Coding System	Description	Sample Collected
1	CRE-105-CF-1	Room 105 - Classroom Faucet	Yes
2	CRE-108-CF-2	Room 108 - Classroom Faucet	Yes
3	CRE-HCN-EWC-1	Hall C Norh - Electric Water Cooler	Yes
4	CRE-HCS-EWC-2	Hall C South - Electric Water Cooler	Yes
5	CRE-HC-TLF-1	Hall C - Teachers Lounge Faucet	Yes
6	CRE-201-CF-3	Room 201 - Classroom Faucet	Yes
7	CRE-202-CF-4	Room 202 - Classroom Faucet	Yes
8	CRE-203-CF-5	Room 203 - Classroom Faucet	Yes
9	CRE-204-CF-6	Room 204 - Classroom Faucet	Yes
10	CRE-205-CF-7	Room 205 - Classroom Faucet	Yes
11	CRE-206-CF-8	Room 206 - Classroom Faucet	Yes
12	CRE-212-CF-9	Room 212 - Classroom Faucet	Yes
13	CRE-219-CF-10	Room 219 - Classroom Faucet	Yes
14	CRE-216-CF-11	Room 216 - Classroom Faucet	Yes
15	CRE-218-CF-12	Room 218 - Classroom Faucet	Yes
16	CRE-221-CF-13	Room 221 - Classroom Faucet	Yes
17	CRE-223-CF-14	Room 223 - Classroom Faucet	Yes
18	CRE-220-CF-15	Room 220 - Classroom Faucet	Yes
19	CRE-222-CF-16	Room 222 - Classroom Faucet	Yes
20	CRE-225-CF-17	Room 225 - Classroom Faucet	Yes
21	CRE-227-CF-18	Room 227 - Classroom Faucet	Yes
22	CRE-HF-TLF-2	Hall F - Teachers Lounge Faucet	Yes
23	CRE-HFS-EWC-3	Hall F South - Electric Water Cooler	Yes
24	CRE-HFN-EWC-4	Hall F North - Electric Water Cooler	Yes
25	CRE-122-EWC-5	Room 122 - Electric Water Cooler	Yes
26	CRE-KF-1	Kitchen Faucet 1	Yes
27	CRE-KF-2	Kitchen Faucet 2	Yes
28	CRE-KF-3	Kitchen Faucet 3	Yes
29	CRE-KF-4	Kitchen Faucet 4	Yes
30	CRE-123-CF-19	Room 123 - Classroom Faucet	Yes
31	CRE-339-CF-20	Room 339 - Classroom Faucet	Yes
32	CRE-331-CF-21	Room 331 - Classroom Faucet	Yes
33	CRE-332-CF-22	Room 332 - Classroom Faucet	Yes
34	CRE-333-CF-23	Room 333 - Classroom Faucet	Yes
35	CRE-334-CF-24	Room 334 - Classroom Faucet	Yes
36	CRE-335-CF-25	Room 335 - Classroom Faucet	Yes
37	CRE-HH-TLF-3	Hall H - Teacher's Lounge Faucet	Yes
38	CRE-HHN-EWC-6	Hall H North - Electric Water Cooler	Yes
39	CRE-HHS-EWC-7	Hall H South - Electric Water Cooler	Yes
40	CRE-322-CF-26	Room 322 - Classroom Faucet	Yes

41	CRE-317-CF-27	Room 317 - Classroom Faucet	Yes
42	CRE-323-CF-28	Room 323 - Classroom Faucet	Yes
43	CRE-324-CF-29	Room 324 - Classroom Faucet	Yes
44	CRE-325-CF-30	Room 325 - Classroom Faucet	Yes
45	CRE-326-CF-31	Room 326 - Classroom Faucet	Yes
46	CRE-313-CF-32	Room 313 - Classroom Faucet	Yes
47	CRE-301-CF-33	Room 301 - Classroom Faucet	Yes
48	CRE-302-CF-34	Room 302 - Classroom Faucet	Yes
49	CRE-303-CF-35	Room 303 - Classroom Faucet	Yes
50	CRE-304-CF-36	Room 304 - Classroom Faucet	Yes
51	CRE-305-CF-37	Room 305 - Classroom Faucet	Yes
52	CRE-306-RRF-1	Room 306 - Restroom Faucet	Yes
53	CRE-307-RRF-2	Room 307 - Restroom Faucet	Yes
54	CRE-HG-TLF-4	Hall G - Teacher's Lounge Faucet	Yes
55	CRE-HGE-EWC-8	Hall G Eest - Electric Water Cooler	Yes
56	CRE-HGW-EWC-9	Hall G West - Electric Water Cooler	Yes
57	CRE-GYM-EWC-10	Gym - Electric Water Cooler	Yes
58	CRE-112-CF-38	Room 112 - Classroom Faucet	Yes

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	end 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 Kinel Certification Program Manager, Environmental Services Program

Missouri Department of Natural Resources