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

DATE: JANUARY 6, 2022

FACILITY NAME: BATTLE HIGH SCHOOL

A. SAMPLE COLLECTION

1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY 44

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

NUMBER OF SAMPLES EXCEEDING COPPER ACTION LIMIT
 NUMBER OF SAMPLES EXCEEDING LEAD ACTION LIMIT

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 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 **42** sample(s) the laboratory received on **8/6/21 4:08 pm** and logged in under work order **EH01861**. 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

EH01861

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
YES	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
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

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YES

Case narrative provided



Sampled: 08/04/21 06:43 Sample: EH01861-01 1. Custodial Office Received: 08/06/21 16:08 Name: BHS-D139-KF-1 Alias: Matrix: Drinking Water - Grab **Parameter** Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA Copper 87 1300 08/17/21 13:06 EPA 200.8 REV 5.4 ug/L TJJ Lead < 1.0 15 08/17/21 13:06 TJJ EPA 200.8 REV 5.4 ug/L Sample: EH01861-03 Sampled: 08/04/21 07:00 Name: 3. Boys Locker Room Received: 08/06/21 16:08 Alias: BHS-D143-EWC-1 Matrix: Drinking Water - Grab Analyst Method **Parameter** Result Unit Qualifier MCL Analyzed Total Metals - PIA 1300 Copper 110 ug/L 08/17/21 13:07 TJJ EPA 200.8 REV 5.4 Lead 1.2 15 08/17/21 13:07 EPA 200.8 REV 5.4 ug/L 08/04/21 07:00 Sample: EH01861-04 Sampled: Name: 4. Girls Locker Room Received: 08/06/21 16:08 BHS-D144-EWC-2 Drinking Water - Grab Alias: Matrix: Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 250 1300 08/17/21 13:09 TJJ EPA 200.8 REV 5.4 ug/L Lead < 1.0 15 08/17/21 13:09 TJJ EPA 200.8 REV 5.4 ug/L Sampled: 08/04/21 04:43 Sample: EH01861-05 Name: 5. Teachers Lounge Received: 08/06/21 16:08 Alias: BHS-D114-TLF-1 Matrix: Drinking Water - Grab Qualifier MCL Analyst Method Result Unit **Parameter** Analyzed **Total Metals - PIA** Copper 95 ug/L 1300 08/17/21 13:10 TJJ EPA 200.8 REV 5.4 Lead 1.1 ug/L 15 08/17/21 13:10 TJJ EPA 200.8 REV 5.4

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 Sample:
 EH01861-06
 Sampled:
 08/04/21 00:00

 Name:
 6. Teachers Workroom
 Received:
 08/06/21 16:08

Alias: BHS-E105-TLF-2 Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	110	ug/L		1300	08/17/21 13:12	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 13:12	TJJ	EPA 200.8 REV 5.4
Sample: EH01861-07					Sampled:	08/04/21 0	06:10

 Sample:
 EH01861-07
 Sampled:
 08/04/21 06:10

 Name:
 7. Hall by F100
 Received:
 08/06/21 16:08

 Alias:
 BHS-F100-EWC-3
 Matrix:
 Drinking Water - Grab

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	120	ug/L		1300	08/17/21 13:13	TJJ	EPA 200.8 REV 5.4
Lead	1.0	ug/L		15	08/17/21 13:13	TJJ	EPA 200.8 REV 5.4

 Sample:
 EH01861-08
 Sampled:
 08/04/21 06:10

 Name:
 8. Room F113
 Received:
 08/06/21 16:08

 Alias:
 BHS-F113-CF-1
 Matrix:
 Drinking Water - Grab

Result Unit Qualifier MCL Analyst Method **Parameter** Analyzed Total Metals - PIA Copper 88 ug/L 1300 08/17/21 13:34 TJJ EPA 200.8 REV 5.4 Lead 2.4 ug/L 15 08/17/21 13:34 TJJ EPA 200.8 REV 5.4

 Sample:
 EH01861-09
 Sampled:
 08/04/21 05:45

 Name:
 9. Hall by G100
 Received:
 08/06/21 16:08

 Alias:
 BHS-G100--EWC-4
 Matrix:
 Drinking Water - Grab

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	250	ug/L		1300	08/17/21 13:35	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/17/21 13:35	TJJ	EPA 200.8 REV 5.4

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Sampled: 08/04/21 05:45 Sample: EH01861-10 10. Room G113 Received: 08/06/21 16:08 Name: BHS-G113-CF-2 Alias: Matrix: Drinking Water - Grab **Parameter** Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA Copper 1300 08/17/21 13:37 EPA 200.8 REV 5.4 110 ug/L TJJ Lead 4.3 15 08/17/21 13:37 TJJ EPA 200.8 REV 5.4 ug/L Sample: EH01861-11 Sampled: 08/04/21 05:17 Name: 11. Hall by H100 Received: 08/06/21 16:08 Alias: BHS-H100-EWC-5 Matrix: Drinking Water - Grab Analyst Method **Parameter** Result Unit Qualifier MCL Analyzed Total Metals - PIA 1300 Copper 190 ug/L 08/17/21 13:38 TJJ EPA 200.8 REV 5.4 Lead 1.2 15 08/17/21 13:38 EPA 200.8 REV 5.4 ug/L Sample: EH01861-12 08/04/21 05:17 Sampled: Name: 12. Room H114 Received: 08/06/21 16:08 BHS-H114-CF-3 Drinking Water - Grab Alias: Matrix: Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 140 ug/L 1300 08/17/21 13:40 TJJ EPA 200.8 REV 5.4 Lead 14 15 08/17/21 13:40 TJJ EPA 200.8 REV 5.4 ug/L Sampled: 08/04/21 05:24 Sample: EH01861-13 Name: 13. Room E113 Received: 08/06/21 16:08 Alias: BHS-E113-CF-4 Matrix: Drinking Water - Grab Qualifier MCL Result Unit Method **Parameter** Analyzed Analyst **Total Metals - PIA** Copper 75 ug/L 1300 08/17/21 13:41 TJJ EPA 200.8 REV 5.4 Lead 1.2 ug/L 15 08/17/21 13:41 TJJ EPA 200.8 REV 5.4

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Sampled: 08/04/21 04:58



Copper

Lead

Sample: EH01861-14

ANALYTICAL RESULTS

14. Hall by J100 Received: 08/06/21 16:08 Name: BHS-J100-EWC-6 Alias: Matrix: Drinking Water - Grab **Parameter** Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA Copper 360 1300 08/17/21 13:43 EPA 200.8 REV 5.4 ug/L TJJ Lead < 1.0 15 08/17/21 13:43 TJJ EPA 200.8 REV 5.4 ug/L Sample: EH01861-16 Sampled: 08/04/21 00:00 Name: 16. Hall by J200 Received: 08/06/21 16:08 Alias: BHS-J200-EWC-7 Matrix: Drinking Water - Grab **Parameter** Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 1300 Copper 96 ug/L 08/17/21 13:44 TJJ EPA 200.8 REV 5.4 Lead 9.8 15 08/17/21 13:44 EPA 200.8 REV 5.4 ug/L Sample: EH01861-17 08/04/21 00:00 Sampled: Name: 17. Teachers Lounge Received: 08/06/21 16:08 BHS-J204-TLF-3 Drinking Water - Grab Alias: Matrix: Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA

 Sample:
 EH01861-18
 Sampled:
 08/04/21 00:00

 Name:
 18. Room J218
 Received:
 08/06/21 16:08

 Alias:
 BHS-J218-CF-6
 Matrix:
 Drinking Water - Grab

1300

15

....

08/17/21 14:19

08/17/21 14:19

TJJ

TJJ

EPA 200.8 REV 5.4

EPA 200.8 REV 5.4

ug/L

ug/L

110

1.6

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method	
<u>Total Metals - PIA</u>								
Copper	170	ug/L		1300	08/17/21 14:21	TJJ	EPA 200.8 REV 5.4	
Lead	2.2	ug/L		15	08/17/21 14:21	TJJ	EPA 200.8 REV 5.4	

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Sampled: 08/04/21 00:00 Sample: EH01861-19 19. Hall by H200 Received: 08/06/21 16:08 Name: BHS-H200-EWC-8 Alias: Matrix: Drinking Water - Grab **Parameter** Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA Copper 1300 08/17/21 14:22 EPA 200.8 REV 5.4 140 ug/L TJJ Lead 15 08/17/21 14:22 TJJ EPA 200.8 REV 5.4 1.1 ug/L Sample: EH01861-20 Sampled: 08/04/21 00:00 Name: 20. Teachers Lounge Received: 08/06/21 16:08 Alias: BHS-H204-TLF-4 Matrix: Drinking Water - Grab Analyst Method **Parameter** Result Unit Qualifier MCL Analyzed Total Metals - PIA 1300 Copper 140 ug/L 08/17/21 14:24 TJJ EPA 200.8 REV 5.4 Lead 2.4 15 08/17/21 14:24 EPA 200.8 REV 5.4 ug/L Sample: EH01861-21 08/04/21 00:00 Sampled: Name: 21. Room H218 Received: 08/06/21 16:08 BHS-H218-CF-7 Drinking Water - Grab Alias: Matrix: Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 130 1300 08/17/21 14:25 TJJ EPA 200.8 REV 5.4 ug/L Lead 2.6 15 08/17/21 14:25 TJJ EPA 200.8 REV 5.4 ug/L Sampled: 08/04/21 05:55 Sample: EH01861-22 Name: 22. Hall by G200 Received: 08/06/21 16:08 Alias: BHS-G200-EWC-9 Matrix: Drinking Water - Grab Qualifier MCL Result Unit Method **Parameter** Analyzed Analyst **Total Metals - PIA** Copper 170 ug/L 1300 08/17/21 14:27 TJJ EPA 200.8 REV 5.4 Lead 1.1 ug/L 15 08/17/21 14:27 TJJ EPA 200.8 REV 5.4



 Sample:
 EH01861-23
 Sampled:
 08/04/21 05:55

 Name:
 23. Teachers Lounge
 Received:
 08/06/21 16:08

Name:23. Teachers LoungeReceived:08/06/21 16:08Alias:BHS-G204-TLF-5Matrix:Drinking Water - Grab

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA Copper 94 1300 EPA 200.8 REV 5.4 ug/L 08/17/21 14:28 TJJ Lead 1.6 15 08/17/21 14:28 TJJ EPA 200.8 REV 5.4 ug/L

 Sample:
 EH01861-24
 Sampled:
 08/04/21 05:55

 Name:
 24. Room G218
 Received:
 08/06/21 16:08

 Alias:
 BHS-G218-CF-8
 Matrix:
 Drinking Water - Grab

Analyst Method **Parameter** Result Unit Qualifier MCL Analyzed <u>Total Metals - PIA</u> 170 1300 Copper ug/L 08/17/21 14:30 TJJ EPA 200.8 REV 5.4 Lead 3.8 15 08/17/21 14:30 EPA 200.8 REV 5.4 ug/L

 Sample:
 EH01861-25
 Sampled:
 08/04/21 06:25

 Name:
 25. Hall by F200
 Received:
 08/06/21 16:08

 Alias:
 BHS-F200-EWC-10
 Matrix:
 Drinking Water - Grab

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 130 1300 08/17/21 14:39 TJJ EPA 200.8 REV 5.4 ug/L Lead 1.4 15 08/17/21 14:39 TJJ EPA 200.8 REV 5.4 ug/L

 Sample:
 EH01861-26
 Sampled:
 08/04/21 06:26

 Name:
 26. Room F204
 Received:
 08/06/21 16:08

 Alias:
 BHS-F204-TLF-26
 Matrix:
 Drinking Water - Grab

Qualifier MCL Result Unit Method **Parameter** Analyzed Analyst **Total Metals - PIA** Copper 99 ug/L 1300 08/17/21 14:40 TJJ EPA 200.8 REV 5.4 Lead 2.1 ug/L 15 08/17/21 14:40 TJJ EPA 200.8 REV 5.4

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	_							00/04/04	
		EH01861-27						08/04/21 (
	ame: 	27. Room F218						08/06/21 1	
All	lias:	BHS-F218-CF-9					Matrix:	Drinking v	Vater - Grab
Parameter	r		Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Meta	als - PIA	<u>.</u>							
Copper			120	ug/L		1300	08/17/21 14:42	TJJ	EPA 200.8 REV 5.4
Lead			6.7	ug/L		15	08/17/21 14:42	TJJ	EPA 200.8 REV 5.4
Sa	ample:	EH01861-28					Sampled:	08/04/21 ()7:25
Na	ame:	28. Teachers Lounge					Received:	08/06/21 1	16:08
Al	lias:	BHS-D220-TLF-27					Matrix:	Drinking V	Vater - Grab
Parameter	r		Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Meta	als - PIA	1							
Copper			95	ug/L		1300	08/17/21 14:43	TJJ	EPA 200.8 REV 5.4
Lead			< 1.0	ug/L		15	08/17/21 14:43	TJJ	EPA 200.8 REV 5.4
Sa	ample:	EH01861-29					Sampled:	08/04/21 0	7:50
Na	ame:	29. Workroom					Received:	08/06/21 1	16:08
Ali	lias:	BHS-D218-CF-10					Matrix:	Drinking V	Vater - Grab
Parameter	r		Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Meta	als - PIA	<u>.</u>							
Copper			72	ug/L		1300	08/17/21 14:45	TJJ	EPA 200.8 REV 5.4
Lead			< 1.0	ug/L		15	08/17/21 14:45	TJJ	EPA 200.8 REV 5.4
Sa	ample:	EH01861-30						08/04/21 0	
Na	ame:	30. Nurses Office					Received:	08/06/21 1	
	lias:	BHS-D221-NSF-1					Matrix:	Drinking V	Vater - Grab
AI			Result	Unit	Qualifier	MCL	Analyzed	Δnalvet	Method
Parameter	r		Result	Oilit	Quamor		,	Analyst	
		<u> </u>	Result	Onit	Quantities			Analyst	
Parameter		<u> </u>	96	ug/L	Qualific	1300	08/17/21 14:46	TJJ	EPA 200.8 REV 5.4



Sample: EH01861-31

Name: 31. Cooking Classroom

Sampled: 08/04/21 07:55

Received: 08/06/21 16:08

Name:	31. Cooking Classroom					Received:	08/06/21	16:08
Alias:	BHS-D231-CF-11					Matrix:	Drinking V	Vater - Grab
Parameter		Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - Pl	<u>A</u>							
Copper		87	ug/L		1300	08/17/21 14:48	TJJ	EPA 200.8 REV 5.4
Lead		2.0	ug/L		15	08/17/21 14:48	TJJ	EPA 200.8 REV 5.4
Sample:	EH01861-32					Sampled:	08/04/21	08:00
Name:	32. Kitchen					Received:	08/06/21	16:08
Alias:	BHS-D237-KF-2					Matrix:	Drinking V	Vater - Grab
Parameter		Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - Pl	<u>A</u>							
Copper		140	ug/L		1300	08/17/21 14:49	TJJ	EPA 200.8 REV 5.4
Lead		< 1.0	ug/L		15	08/17/21 14:49	TJJ	EPA 200.8 REV 5.4
Sample:	EH01861-33					Sampled:	08/04/21	07:40
Name:	33. Hall by D200					Received:	08/06/21	
Alias:	BHS-D200-EWC-11					Matrix:	Drinking V	Vater - Grab
Parameter		Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - Pl	<u>A</u>							
Copper		92	ug/L		1300	08/17/21 10:15	KMC	EPA 200.8 REV 5.4
Lead		< 1.0	ug/L		15	08/17/21 10:15	KMC	EPA 200.8 REV 5.4
Sample:	EH01861-34					Sampled:	08/04/21 (07:20
Name:	34. Room C113					Received:	08/06/21	16:08
Alias:	BHS-C113-EWC-12					Matrix:	Drinking V	Vater - Grab
Parameter		Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - Pl	<u> </u>							
Copper		100	ug/L		1300	08/17/21 10:17	KMC	EPA 200.8 REV 5.4
Lead		< 1.0	ug/L		15	08/17/21 10:17	KMC	EPA 200.8 REV 5.4
			J.					

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 Sample:
 EH01861-35
 Sampled:
 08/04/21 07:10

 Name:
 35. Room 107
 Received:
 08/06/21 16:08

Alias: BHS-C107-EWC-13 Matrix: Drinking Water - Grab

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA Copper 590 1300 08/17/21 10:18 ug/L **KMC** EPA 200.8 REV 5.4 Lead 2.4 15 08/17/21 10:18 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH01861-36
 Sampled:
 08/04/21 07:15

 Name:
 36. Room C106
 Received:
 08/06/21 16:08

 Alias:
 BHS-C106-CF-12
 Matrix:
 Drinking Water - Grab

Analyst Method **Parameter** Result Unit Qualifier MCL Analyzed <u>Total Metals - PIA</u> 1300 Copper 100 ug/L 08/17/21 10:20 KMC EPA 200.8 REV 5.4 Lead < 1.0 15 08/17/21 10:20 KMC EPA 200.8 REV 5.4 ug/L

 Sample:
 EH01861-37
 Sampled:
 08/04/21 07:20

 Name:
 39. Hall By A100
 Received:
 08/06/21 16:08

 Alias:
 BHS-A100-EWC-15
 Matrix:
 Drinking Water - Grab

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 130 1300 08/17/21 10:21 KMC EPA 200.8 REV 5.4 ug/L Lead < 1.0 15 08/17/21 10:21 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH01861-38
 Sampled:
 08/04/21 07:05

 Name:
 40. Hall by A145
 Received:
 08/06/21 16:08

 Alias:
 BHS-A145-EWC-16
 Matrix:
 Drinking Water - Grab

Qualifier MCL Result Unit Method **Parameter** Analyzed Analyst **Total Metals - PIA** Copper 100 ug/L 1300 08/17/21 10:23 **KMC** EPA 200.8 REV 5.4 Lead < 1.0 ug/L 15 08/17/21 10:23 KMC EPA 200.8 REV 5.4

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Sampled: 08/04/21 07:30 Sample: EH01861-39 41. Room A112 Received: 08/06/21 16:08 Name: Alias:

BHS-A112-EWC-17 Matrix: Drinking Water - Grab

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 1300 08/17/21 10:31 EPA 200.8 REV 5.4 Copper 110 ug/L **KMC** Lead < 1.0 15 08/17/21 10:31 **KMC** EPA 200.8 REV 5.4 ug/L

Sample: EH01861-40 Sampled: 08/04/21 07:30 Name: 42. Room 126 Received: 08/06/21 16:08 Alias: BHS-A126-EWC-18 Matrix: Drinking Water - Grab

Analyst Method **Parameter** Result Unit Qualifier MCL Analyzed <u>Total Metals - PIA</u> 1300 Copper 130 ug/L 08/17/21 10:32 KMC EPA 200.8 REV 5.4 Lead 1.2 15 08/17/21 10:32 KMC EPA 200.8 REV 5.4 ug/L

Sample: EH01861-41 08/04/21 07:25 Sampled: Name: 43. Room A101 Received: 08/06/21 16:08 BHS-A101-CF-13 Drinking Water - Grab Alias: Matrix:

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 88 1300 08/17/21 10:34 KMC EPA 200.8 REV 5.4 ug/L Lead 2.7 15 08/17/21 10:34 **KMC** EPA 200.8 REV 5.4 ug/L

Sampled: 08/04/21 07:30 Sample: EH01861-42 Name: 44. A106 Restroom Received: 08/06/21 16:08 BHS-A106-RRF-1 Matrix: Drinking Water - Grab Alias:

Qualifier MCL Result Unit Method **Parameter** Analyzed Analyst **Total Metals - PIA** Copper 110 ug/L 1300 08/17/21 10:35 **KMC** EPA 200.8 REV 5.4 Lead 1.7 ug/L 15 08/17/21 10:35 KMC 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





CHALTONY 2010 DEVE

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

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

	ALL HIGHLI PROJECT NUM			COMPLETED BY)					
Engineering Surveys & Services	L14571	BEK	Columb		PURCHAS	E ORDER#	3	ANALYSI	S REQUES	TED	(4)	AB USE ONLY) 42
ADDRESS	PHONE NUME	BER		MAIL	DATE S	HIPPED	T	T		ТТ	LOGIN#ET	1018101-40
1113 Fay Street	573-449-	2646	jlehmen@	ess-inc.com	7-16	-21	\				LOGGED BY:	Siv
Columbia, MO	SAMPLER (PLEASE PRINT) Josh Lehme	n			MATRIX WW- WASTEWAT DW- DRINKING W GW- GROUND W WWSL- SLUDGE		Coffee					
Josh Lehmen	SAMPLER'S SIGNATURE				WWSL- SLUDGE NAS- NON AQUE LCHT-LEACHATI OIL-OIL SO-SOIL SOL-SOLID	OUS SOLID E	1 and				N .	AL #:
SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED CO	TIME LLECTED	SAMPLE TYPE		BOTTLE	PRES CODE CLIENT PROVIDED	Lean				RE	MARKS
Battle High School	8/4/21		X				40					
										-		
				_				+		++		
										+	*	
								\dashv		++		
CHEMICAL PRESERVATION CODES: I - HCL 2 - H2SO4 3 -	HNO3 4 - NAOH	5 – NA2		JNPRESERVED	7 – OTHER							
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORM, (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE	AL RUSH		NEEDED	6	not meet all	sample confo	rmance r	equirement	s as define	d in the red	ceiving facility's Sam	i, even though it may pple Acceptance Il regulatory authorities.
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE	:				PROCEED W	VITH ANALYS	IS AND C	UALIFY RE	SULTS: (II	NITIALS)_		
7 RELINQUISHED BY: (SIGNATURE) TIME 7:	472	RECEIVED	BY: (SIGNATU	RE)		TIME	1:21		8 _	OMMENTS	S: (FOR LAB USE ON	LY)
RELINQUISHED BY: (SIGNATURE) DATE TIME	1	RECEIVE	BY: (SIGNATUI	RE)		DATE	×) (SA	MPLE TEM	PERATURI	E UPON RECEIPT	25.0° °C
RELINQUISHED BY: (SIGNATURE) DATE		RECEIVED	BY: (SIGNATUI	RE		X15	2/11	SA	MPLE(S) R	ECEIVED C	TED PRIOR TO RECE ON ICE NONCONFORMANT	IPT YORN YORN
TIME		2-(w.	1		TIME 80	()	RE	PORT IS N	EEDED	FROM SAMPLE BO	YORN
						100						Page 16 of 18

21212024

Location:	Battle High School
Sample Date:	8/4/2021
Sample Time:	Various
Sampled By:	Kyle Vidusic

Sample No.	Coding System	Description	Sample Collected
1	BHS-D139-KF-1	Costodial Office - Kitchen Faucet	Yes
2	BHS-D138-RRF-1	Hall by 138 - Restroom Faucet (Not Located)	No
3	BHS-D143-EWC-1	Locker Room - Electric Water Cooler	Yes
4	BHS-D144-EWC-2	Locker Room - Electric Water Cooler	Yes
5	BHS-D114-TLF-1	Teachers Lounge Faucet	Yes
6	BHS-E105-TLF-2	Teachers Lounge Faucet - Workroom	Yes
7	BHS-F100-EWC-3	Hall by F100 - Electric Water Cooler	Yes
8	BHS-F113-CF-1	Room F113 - Classroom Faucet	Yes
9	BHS-G100-EWC-4	Hall by G100 - Electric Water Cooler	Yes
10	BHS-G113-CF-2	Room G113 - Classroom Faucet	Yes
11	BHS-H100-EWC-5	Hall by H100 - Electric Water Cooler	Yes
12	BHS-H114-CF-3	Room H114 - Classroom Faucet	Yes
13	BHS-E113-CF-4	Room E113 - Classroom Faucet	Yes
14	BHS-J100-EWC-6	Hall by J100 - Electric Water Cooler	Yes
15	BHS-J114-CF-5	Room J114 - Classroom Faucet (Not Located)	No
16	BHS-J200-EWC-7	Hall by J200 - Electric Water Cooler	Yes
17	BHS-J204-TLF-3	Teachers Lounge Fucet	Yes
18	BHS-J218-CF-6	Room J218 - Classroom Faucet	Yes
19	BHS-H200-EWC-8	Hall by H200 - Electric Water Cooler	Yes
20	BHS-H204-TLF-4	Teachers Lounge Faucet	Yes
21	BHS-H218-CF-7	Room H218 - Classroom Faucet	Yes
22	BHS-G200-EWC-9	Hall by G200 - Electric Water Cooler	Yes
23	BHS-G204-TLF-5	Teachers Lounge Faucet	Yes
24	BHS-G218-CF-8	Room G218 - Classroom Faucet	Yes
25	BHS-F200-EWC-10	Hall by Room F200 - Electric Water Cooler	Yes
26	BHS-F204-TLF-26	Room 200 - Teachers Lounge Faucet	Yes
27	BHS-F218-CF-9	Room F218 - Classroom Faucet	Yes
28	BHS-D220-TLF-27	Room D220- Teachers Lounge Faucet	Yes
29	BHS-D218-CF-10	Room D218 - Classroom Faucet	Yes
30	BHS-D221-NSF-1	Room D221 - Nurse Station Faucet	Yes
31	BHS-D231-CF-11	Room D231 - Classroom Faucet	Yes
32	BHS-D237-KF-2	Room D237 - Kitchen Faucet	Yes
33	BHS-D200-EWC-11	Hall by Room D200 - Electric Water Cooler	Yes
34	BHS-C113-EWC-12	Hall by Room C113 - Electric Water Cooler	Yes
35	BHS-C107-EWC-13	Hall by Room C107 - Electric Water Cooler	Yes
36	BHS-C106-CF-12	Room C106 - Classroom Faucet	Yes
37	BHS-B100-EWC-14	Hall by B100 - Electric Water Cooler (Not Loc.)	No
38	BHS-B109-KF-3	Kitchen Faucet (Hand Wash Station Not Samp.)	No
39	BHS-A100-EWC-15	Hall By A100 - Electric Water Cooler	Yes
40	BHS-A145-EWC-16	Hall by A145 - Electric Water Cooler	Yes

41	BHS-A112-EWC-17	Room A112 - Electric Water Cooler	Yes
42	BHS-A126-EWC-18	Room 126 - Electric Water Cooler	Yes
43	BHS-A101-CF-13	Room A101 - Classroom Faucet	Yes
44	BHS-A106-RRF-1	A106 Restroom Faucet	Yes
45	BHS-S100-RRF-2	S100 Restroom Faucet - (Not Located)	No
46	BHS-P100-KF-4	Kitchen Faucet	Yes
47	BHS-PB-DWF-1	Pressbox - Drinking Water Fountain (Off)	No
48	BHS-SR-DWF-2	Softball DWF - Drinking Water Fountain (Off)	No
49	BHS-		
50	BHS-		
51	BHS-		
52	BHS-		
53	BHS-		
54	BHS-		
55	BHS-		
56	BHS-		
57	BHS-		
58	BHS-		



Pace Analytical Services, LLC 2231 W. Altorfer Drive Peoria, IL 61615 (800)752-6651

April 13, 2022

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

RE: L14571

Dear Josh Lehmen:

Please find enclosed the analytical results for the 3 sample(s) the laboratory received on 4/4/22 2:50 pm and logged in under work order FD00532. 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 Pace Analytical Services, LLC.

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

Pace Analytical Services 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 lisa.grant@pacelabs.com.

Erin Lane

Project Manager (309)683-1767

erin.lane@pacelabs.com

Fri Mosave



SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

	Work Order FD00532
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
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

Customer #: 72-100995 www.pacelabs.com



Sample: FD00532-01 Name: Hall by Room 138 **Sampled:** 03/31/22 13:22 **Received:** 04/04/22 14:50

Alias: BHS 2

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	200	ug/L	0	4/11/22 12:52	1	3.0	04/11/22 16:19	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	0	04/11/22 12:52	1	1.0	04/11/22 16:19	KMC	EPA 200.8 REV 5.4

Sample: FD00532-02 Name: B100 Corridor EWC

Alias: BHS 37

Sampled: 03/31/22 13:24 Received: 04/04/22 14:50

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	390	ug/L	(04/11/22 12:52	1	3.0	04/11/22 16:20	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	(04/11/22 12:52	1	1.0	04/11/22 16:20	KMC	EPA 200.8 REV 5.4

Sample: FD00532-03

Name: B109 Concessions Kitchen Faucet

Alias: BHS 38

Sampled: 03/31/22 13:08

Received: 04/04/22 14:50

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	180	ug/L	04/11/22 12:	52 1	3.0	04/11/22 16:22	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	04/11/22 12:	52 1	1.0	04/11/22 16:22	KMC	EPA 200.8 REV 5.4



Pace Analytical Services, LLC 2231 W. Altorfer Drive Peoria, IL 61615 (800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations 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

Mosane

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

www.pacelabs.com

Certified by: Erin Lane, Project Manager





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

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

ALL HIGHLIGHTED AREAS <u>MUST</u> BE COMPLETED BY CLIENT (PLEASE PRINT)														
CLIENT	PROJECT	NUMBER		JECT LOCA		PURCHASI	E ORDER #	3	\ ANA	LYSIS R	FOLIEST	=D	(FOR LAB USE ONLY)	
Engineering Surveys & Services	L14571		Colu	mbia,	MO			J	,	ETOIOTA	LUCEOT		U CNOWS	27 7
ADDRESS	PHONE I	NUMBER	E-MAIL			DATE S							LOGIN#	2002
1113 Fay Street			jlehmen@ess-inc.com			4/1/2	2						.OGGED BY:	
CITY STATE	SAMPLER (PLEASE PRINT	r)				MATRIX		Lead					CLIENT:	
Columbia, MO 65201	Kyran Bu					DW- DRINKING V	WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER						'ROJECT:	
CONTACT PERSON	SAMPLER'S SIGNATURE					NAS- NON AQUE		and					'ROJ. MGR.:	
Josh Lehmen	SIGNATURE					OIL-OIL SO-SOIL SOL-SOLID		er al					CUSTODY SEAL #:	
SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME	SAMPL GRAB	COMP	MATRIX TYPE	BOTTLE	PRES CODE CLIENT PROVIDED	Copper					REMARKS	
Various Samples From Various Schools (See attached sheet)	bottle	bottle	Х					6	9				Battle High	
Please provide separate reports for each school													Schoo	
										-				
											-			
										+	-			
- CALLES CONTROL OF CO														
CHEMICAL PRESERVATION CODES: I - HCL 2 - H2SO4 3 -	HNO3 4 – NAC	DH 5 – NA	28203	6 – UNPR	ESERVED	7 – OTHER	T							
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMA	AL RUSH		DATE RES	ULTS										
(RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)			NEEDE	D	(6)	not meet all	sample confe	ormance	e requi	ements a	s defined	in the rece	oceed with analysis, even though it in Priving facility's Sample Acceptance	-
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE													otable to report to all regulatory auth	orities.
O DELINOUER BY (SIGNATURE)						PROCEED	WITH ANALY		QUAL	IFY RESI				
(1)	tpraz	RECEIVE	D BY: (SIG	NATURE)			DATE	4-1	-73	16)	OMMENTS:	(FOR LAB USE ONLY)	
	26	Fritt	-WW		-		TIME	2:2	1.	1	′ —			
RELINQUISHED BY: (SIGNATURE) DATE	1-22	RECEIVE	6 BY SIG	NATURE			DATE	10/	22	1		DEDATURE	UPON RECEIPT 10 C1	7.00
TIME IL	1,00	///		//			TIME	110	0	- SAIMI	LE IEMI	CKATUKE	UPON RECEIPT 19.9	°c
RELINQUISHED BY (SIGNATORE) DATE	112	RECEIVE	D BY: (SIG	NATURE)			DATE	las	120	CHIL	PROCE	SS STARTE	ED PRIOR TO RECEIPT YOR	<u> </u>
TIME I	1110	1 0			1	. /	TIME	-	100	SAMI	RT IS NE	EPTANCE N	IONCONFORMANT Y OF	_
14	150		golh	11	na			14	A	DATE	AND TIM	ME TAKEN I	FROM SAMPLE BOTTLE	· //
QUALTRAX 3219 REV 5				P	AGE	OF_	3/3/2	2021					Page	e 5 of 6

OAKLAND MIDDLE SCHOOL	OMS	8	Room 175 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	12	Girls Locker Room - Electric Water Cooler
OAKLAND MIDDLE SCHOOL	OMS	13	Girls Locker Room - Faucet
OAKLAND MIDDLE SCHOOL	OMS	15	Boys Locker Room - Faucet
OAKLAND MIDDLE SCHOOL	OMS	28	Room 131 - Podium - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	28	Room 131 - Podium - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	29	Room 131 - Wall - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	33	Room 130 - West - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	34	Room 132 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	42	Room 147 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	47	Room 150 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	53	Room 135 West Wall - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	54	Room 25 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	OMS	55	Room 127 Podium - Classroom Faucet
Roseta-Quest East	RQE	1	Room 7 - Classroom Faucet
Roseta-Quest East	RQE	2	Room 8B - Classroom Faucet
Roseta-Quest East	RQE	3	Room 9R Nurse Office Faucet
Roseta-Quest East	RQE	4	Room 9R Work Room Faucet
Roseta-Quest East	RQE	5	Room 11TB Lounge Faucet
Roseta-Quest East	RQE	6	Room 11TA Workroom Faucet
Roseta-Quest East	RQE	7	Room 2 - Classroom Faucet
Roseta-Quest East	RQE	8	Room 3 - Drinking Water Fountain
Roseta-Quest East	RQE	9	Room 12RB Hall - Electric Water Cooler
Roseta-Quest East	RQE	10	Room 5 - Classroom Faucet
Roseta-Quest East	RQE	11	Room 6 - Classroom Faucet
Roseta-Quest East	RQE	12	Room 5C Outside Gym - Electric Water Cooler
Battle High School 1322	BHS	2	Hall by Room 138
Battle High School 1324	BHS	37	B100 corridor EWC
Battle High School 1308	BHS	38	B109 Concessions Kitchen Faucet

03/31/225

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