



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

DATE: APRIL 13, 2022

FACILITY NAME: ROSETA-QUEST EAST

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/ | |
| 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



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 **12** sample(s) the laboratory received on **4/5/22 2:50 pm** and logged in under work order **FD00549**. 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.

A handwritten signature in black ink that reads 'Erin M. Lane'.

Erin Lane
Project Manager
(309)683-1767
erin.lane@pacelabs.com

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order FD00549

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



ANALYTICAL RESULTS

Sample: FD00549-01**Name:** Room 7 - Classroom Faucet**Alias:** RQE 1**Sampled:** 03/31/22 15:12**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Total Metals - PIA

Copper	100	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:59	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:59	KMC	EPA 200.8 REV 5.4

Sample: FD00549-02**Name:** Room 8B - Classroom Faucet**Alias:** RQE 2**Sampled:** 03/31/22 15:16**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Total Metals - PIA

Copper	370	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:01	KMC	EPA 200.8 REV 5.4
Lead	2.5	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:01	KMC	EPA 200.8 REV 5.4

Sample: FD00549-03**Name:** Room 9R Nurse Office Faucet**Alias:** RQE 3**Sampled:** 03/31/22 15:21**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Total Metals - PIA

Copper	110	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:02	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:02	KMC	EPA 200.8 REV 5.4

Sample: FD00549-04**Name:** Room 9R Work Room Faucet**Alias:** RQE 4**Sampled:** 03/31/22 15:19**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Total Metals - PIA

Copper	110	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:04	KMC	EPA 200.8 REV 5.4
Lead	2.7	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:04	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: FD00549-05**Name:** Room 11 TB Lounge Faucet**Alias:** RQE 5**Sampled:** 03/31/22 15:29**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	120	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:12	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:12	KMC	EPA 200.8 REV 5.4

Sample: FD00549-06**Name:** Room 11 TA Workroom Faucet**Alias:** RQE 6**Sampled:** 03/31/22 15:30**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	120	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:13	KMC	EPA 200.8 REV 5.4
Lead	1.8	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:13	KMC	EPA 200.8 REV 5.4

Sample: FD00549-07**Name:** Room 2 - Classroom Faucet**Alias:** RQE 7**Sampled:** 03/31/22 14:59**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	110	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:15	KMC	EPA 200.8 REV 5.4
Lead	1.1	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:15	KMC	EPA 200.8 REV 5.4

Sample: FD00549-08**Name:** Room 3 - Drinking Water Fountain**Alias:** RQE 8**Sampled:** 03/31/22 15:02**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	97	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:16	KMC	EPA 200.8 REV 5.4
Lead	3.4	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:16	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: FD00549-09**Name:** Room 12RB Hall - Electric Water Cooler**Alias:** RQE 9**Sampled:** 03/31/22 15:32**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	190	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:18	KMC	EPA 200.8 REV 5.4
Lead	1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:18	KMC	EPA 200.8 REV 5.4

Sample: FD00549-10**Name:** Room 5 - Classroom Faucet**Alias:** RQE 10**Sampled:** 03/31/22 15:06**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	110	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:19	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:19	KMC	EPA 200.8 REV 5.4

Sample: FD00549-11**Name:** Room 6 - Classroom Faucet**Alias:** RQE 11**Sampled:** 03/31/22 15:08**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	100	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:21	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:21	KMC	EPA 200.8 REV 5.4

Sample: FD00549-12**Name:** Room 5C Outside Gym - Electric Water Cooler**Alias:** RQE 12**Sampled:** 03/31/22 15:09**Received:** 04/05/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	170	ug/L		04/11/22 12:52	1	3.0	04/11/22 17:22	KMC	EPA 200.8 REV 5.4
Lead	2.4	ug/L		04/11/22 12:52	1	1.0	04/11/22 17:22	KMC	EPA 200.8 REV 5.4



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

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



PDC LABORATORIES, INC.
WWW.PDCLAB.COM

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

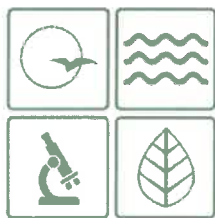
CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

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

1 CLIENT Engineering Surveys & Services ADDRESS 1113 Fay Street CITY STATE ZIP Columbia, MO 65201 CONTACT PERSON Josh Lehmen		PROJECT NUMBER L14571 PHONE NUMBER 573-449-2646 PROJECT LOCATION Columbia, MO E-MAIL jlehmen@ess-inc.com DATE SHIPPED 4/1/22		PURCHASE ORDER # 		3 ANALYSIS REQUESTED Copper and Lead		4 (FOR LAB USE ONLY) LOGIN # <u>F000549-12</u> LOGGED BY: <u>DCW</u> CLIENT: PROJECT: PROJ. MGR.: CUSTODY SEAL #:	
2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT) Various Samples From Various Schools (See attached sheet) Please provide separate reports for each school		DATE COLLECTED bottle	TIME COLLECTED bottle	SAMPLE TYPE GRAB X	MATRIX TYPE 	BOTTLE COUNT 	PRES CODE CLIENT PROVIDED 	REMARKS Roseta-Quest East	
CHEMICAL PRESERVATION CODES: 1 - HCL 2 - H2SO4 3 - HNO3 4 - NAOH 5 - NA2S2O3 6 - UNPRESERVED 7 - OTHER		TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:		DATE RESULTS NEEDED 		6 I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities. PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)		8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <u>19.4</u> °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE <u>yes, by REC</u>	
7 RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>		DATE <u>1 Apr 22</u> TIME <u>1226</u> DATE <u>4-1-22</u> TIME <u>14:05</u> DATE <u>4/1/22</u> TIME <u>1430</u>	RECEIVED BY: (SIGNATURE) <u>[Signature]</u> RECEIVED BY: (SIGNATURE) <u>[Signature]</u> RECEIVED BY: (SIGNATURE) <u>[Signature]</u>		DATE <u>4-1-22</u> TIME <u>12:26</u> DATE <u>4/1/22</u> TIME <u>1100</u> DATE <u>04/04/22</u> TIME <u>1450</u>				

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 15:12	RQE	1	Room 7 - Classroom Faucet
Roseta-Quest East 15:16	RQE	2	Room 8B - Classroom Faucet
Roseta-Quest East 15:21	RQE	3	Room 9R Nurse Office Faucet
Roseta-Quest East 15:19	RQE	4	Room 9R Work Room Faucet
Roseta-Quest East 15:29	RQE	5	Room 11TB Lounge Faucet
Roseta-Quest East 15:30	RQE	6	Room 11TA Workroom Faucet
Roseta-Quest East 14:59	RQE	7	Room 2 - Classroom Faucet
Roseta-Quest East 15:02	RQE	8	Room 3 - Drinking Water Fountain
Roseta-Quest East 15:32	RQE	9	Room 12RB Hall - Electric Water Cooler
Roseta-Quest East 15:06	RQE	10	Room 5 - Classroom Faucet
Roseta-Quest East 15:08	RQE	11	Room 6 - Classroom Faucet
Roseta-Quest East 15:09	RQE	12	Room 5C Outside Gym - Electric Water Cooler
Battle High School	BHS	2	Hall by Room 138
Battle High School	BHS	37	B100 corridor EWC
Battle High School	BHS	38	B109 Concessions Kitchen Faucet



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

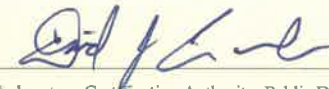
Pace Analytical Services, LLC – Peoria, Illinois

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