



Lawhon & Associates, Inc.

ENVIRONMENTAL CONSULTING AND ENGINEERING SERVICES

Columbus

Cleveland

Dayton

October 5, 2020

Mr. Tim Gehring
Director of Facilities Management
Worthington City School District
250 East Wilson Bridge Road
Worthington, Ohio 43085

Re: Report of Findings for the *Legionella* Environmental Sampling
Facility: Worthington Liberty Elementary School
Address: 8081 Saddle Run, Powell, OH 43065
Sample Date: September 21, 2020
L&A Project No: 20-0441

Dear Mr. Gehring,

Lawhon & Associates, Inc. (L&A) performed environmental sampling to document concentrations of *Legionella* in the building's domestic water system. This testing was performed as a proactive measure to ensure *Legionella* concentrations are at acceptable levels following a period of reduced occupancy. L&A's conclusions and recommendations relevant to the sampling performed are presented in this document.

METHODOLOGY

L&A performed environmental sampling for *Legionella* at the site on September 21, 2020. Field activities included a visual assessment of conditions, documentation of water temperatures and the collection of representative water samples for analysis to document *Legionella* concentrations. All activities were performed in accordance with recommendations published by OSHA, AIHA, CDC and current infection control literature. The samples were sent cold, by overnight mail, to U.S. Micro-Solutions, Inc, Greensburg, Pennsylvania for analysis by culture method. This lab is certified to perform *Legionella* analysis through the Centers for Disease Control (CDC) Environmental *Legionella* Isolation Techniques Evaluation (Elite) Certification Program. U.S. Micro-Solutions, Inc. is also accredited by the American Industrial Hygiene Association (AIHA) through the Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program.

FINDINGS

L&A collected eleven (11) water samples from the domestic water system on this date. A summary of the analytical results is presented in Table 1. The comprehensive data set is presented in Appendix A. A copy of the laboratory report is included as Appendix B.

Table 1: Domestic Water Sampling Results

Location	Fixture	Water Source	Analytical Data (CFU/ml)
Mechanical Room	Hot Water Tank (L)	Hot	>3,400
Mechanical Room	Hot Water Tank (R)	Hot	>6,000
Mechanical Room	Municipal Water Supply	Cold	1
Cafeteria Corridor	Bottle Filling Station	Cold	30
Boys Restroom	Faucet	Hot	15
Classroom K-7	Faucet	Hot	65
Classroom 6	Faucet	Hot	70
Classroom 22	Faucet	Cold	ND
Classroom 14	Faucet	Hot	15
Kitchen	Faucet	Hot	5
Nurse Office Restroom	Faucet	Hot	5
<ol style="list-style-type: none"> 1. ND. <i>Legionella</i> species were not present above detection limits for the analytical method used. 2. OSHA recommends <i>Legionella</i> concentrations be maintained below 10 CFU/ml at domestic water outlets. 3. Water main for this complex was accessible in the Transportation Compound Garage for this Site. 			

CONCLUSIONS

L&A conducted representative sampling of the domestic water system servicing the Worthington Liberty Elementary School. As illustrated in Table 1, analytical results indicate that *Legionella pneumophila* was detected in ten of the eleven locations sampled, seven of which exceeded the OSHA guideline for domestic water (10 CFU/ml). The percentage of samples collected from this building that tested positive for *Legionella* (91%) was also above the action limit prescribed by CDC (30%). L&A recommends that the domestic water system be hyperchlorinated and domestic outlets throughout the building be flushed for at least five minutes as part of this process.

CLOSURE

L&A has prepared this report for your use in accordance with generally accepted inspection and testing practices. The information obtained in this report is site and time specific and pertains to this project only. This inspection evaluated the conditions that were readily accessible at the time of the investigation of the subject property and does not warrant against hidden conditions or future alteration of conditions at the site, as well as subsequent changes in regulations. The opinions expressed in this report are based on L&A's experience, relevant literature and available information.

This report was prepared for the exclusive use of the Worthington City School District. No other party may rely on this report unless expressly designated by the Client in writing. The use of the report is subject to the limitations and exceptions set forth in this report, as well as the terms and conditions contained in the original contract documents. L&A will not distribute or publish this report without the Client's consent, except as required by law or court order.

Thank you for the opportunity to assist you in this important matter. If you have any questions concerning this report, please contact Karrie Bontrager at (614) 481-8600, extension 136.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Karrie A. Bontrager', written in a cursive style.

Karrie A. Bontrager, LEED AP
Principal and Sr. Microbiologist

APPENDIX A

Comprehensive Data Set

APPENDIX B
Laboratory Analytical Report



U.S. Micro-Solutions, Inc. * 302 Unity Plaza * Latrobe, PA 15650
Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP #103009
www.usmslab.com



Customer Name: Lawhon & Associates
Customer Address: 1441 King Avenue
Columbus, OH 43201
Customer Phone: (614) 481-8600
PO Number:
Project Name/Number: 20-0441 Worthington CSD - Liberty Elementary School

Sample Date: September 21, 2020
Date Received: September 22, 2020
Date of Report: September 30, 2020
Fax: (614) 481-8610
Attention: Karrie Bontrager & Matt Geiger
Analysis Date: September 22, 2020
Sample Time: 0830
Analysis Time (hrs): 32.2

Customer sample numbers below are uniquely identified by prefixing Laboratory # 98019-20

Water/Liquid Sample(s) for *Legionella* Culture - Analytical Method MIC 06 MIC 07 (ISO 11731:2017)

Sample Number	Media	Sample Description	Results of Microbial Analysis
W-LES-92120-1	BCYE/GPCV	Mechanical Room - Hot Water Tank - Hot - First Draw	
AS = 5 CFU/mL (Volume examined: 100 mL) Positive - >3,400 CFU/mL <i>Legionella pneumophila</i> Serogroup 1			
W-LES-92120-2	BCYE/GPCV	Mechanical Room - Municipal Water Supply - Cold - First Draw	
AS = 0.5 CFU/mL (Volume examined: 100 mL) Positive - 1 CFU/mL <i>Legionella pneumophila</i> Serogroup 1			
W-LES-92120-3	BCYE/GPCV	Cafeteria Corridor - Bottle Filling Station - Cold - Flush	
AS = 5 CFU/mL (Volume examined: 100 mL) Positive - 30 CFU/mL <i>Legionella pneumophila</i> Serogroup 1			
W-LES-92120-4	BCYE/GPCV	Boys Restroom - Faucet - Hot - Flush	
AS = 5 CFU/mL (Volume examined: 100 mL) Positive - 15 CFU/mL <i>Legionella pneumophila</i> Serogroup 1			
W-LES-92120-5	BCYE/GPCV	Classroom K-7 - Faucet - Hot - Flush	
AS = 5 CFU/mL (Volume examined: 100 mL) Positive - 65 CFU/mL <i>Legionella pneumophila</i> Serogroup 1			
W-LES-92120-6	BCYE/GPCV	Classroom 6 - Faucet - Hot - Flush	
AS = 5 CFU/mL (Volume examined: 100 mL) Positive - 70 CFU/mL <i>Legionella pneumophila</i> Serogroup 1			

Notes:

CFU/mL = colony forming units per milliliter, AS = analytical sensitivity.
Results are reported as Positive or Not Detected.

A negative culture for *Legionella* spp. from a sample does not necessarily rule out its presence.
Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant.

When providing duplicates of this report, the document should be provided in total and not in section in accordance with AIHA-LAP, LLC. Any unauthorized or improper disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer's customer for opinions stated, recommendations made, actions taken, or conduct implemented based on the test results reported.

Technical Manager:

Sharon Danko

Sharon Danko, AS, MLT (ASCP)

Contact: Sharon Danko, Technical Manager: 724-853-4047



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Sample Time: 0830
Analysis Time (hrs): 32.2

Customer sample numbers below are uniquely identified by prefixing Laboratory # 98019-20

Water/Liquid Sample(s) for *Legionella* Culture - Analytical Method MIC 06 MIC 07 (ISO 11731:2017)

Sample Number	Media	Sample Description	Results of Microbial Analysis
W-LES-92120-7	BCYE/GPCV	Classroom 22 - Faucet - Cold - Flush	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
W-LES-92120-8	BCYE/GPCV	Classroom 14 - Faucet - Hot - First Draw	
AS = 5 CFU/mL (Volume examined: 100 mL)			Positive - 15 CFU/mL <i>Legionella pneumophila</i> Serogroup 1
W-LES-92120-9	BCYE/GPCV	Kitchen - Faucet - Hot - Flush	
AS = 5 CFU/mL (Volume examined: 100 mL)			Positive - 5 CFU/mL <i>Legionella pneumophila</i> Serogroup 1
W-LES-92120-10	BCYE/GPCV	Mechanical Room - Hot Water Tank (R) - Hot - First Draw	
AS = 5 CFU/mL (Volume examined: 100 mL)			Positive - >6,000 CFU/mL <i>Legionella pneumophila</i> Serogroup 1
W-LES-92120-11	BCYE/GPCV	Nurse Office Restroom - Faucet - Hot - Flush	
AS = 5 CFU/mL (Volume examined: 100 mL)			Positive - 5 CFU/mL <i>Legionella pneumophila</i> Serogroup 1

Notes:

CFU/mL = colony forming units per milliliter, AS = analytical sensitivity.
Results are reported as Positive or Not Detected.

A negative culture for *Legionella* spp. from a sample does not necessarily rule out its presence.
Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant.

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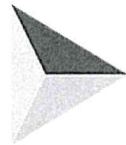
Technical Manager:

Sharon Danko

Sharon Danko, AS, MLT (ASCP)

Contact: Sharon Danko, Technical Manager: 724-853-4047

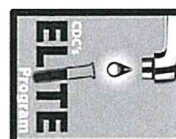
End of Report



U.S. Micro-Solutions, Inc.

302 Unity Plaza
Latrobe, PA 15650
P: 724-853-4047 F: 724-853-4049
supplies@usmslab.com

LEGIONELLA / WATER TEST REQUEST - CHAIN OF CUSTODY



CUSTOMER NAME: Lawhon & Associates

PHONE #: 614-481-8600

FAX #: 614-481-8610

ADDRESS: 1441 King Avenue

CITY: Columbus

STATE: Ohio

ZIP: 43201

ATTENTION TO: Karie Bontrager & Matt Geiger

E-MAIL: kbonttrager@lawhon-assoc.com & mgeiger@

SAMPLE OBTAINED BY: Matt Geiger

RESULTS: ☒ FAX ☒ EMAIL

PROJECT NAME/NUMBER: 20-0441 Worthington CSD - Liberty Elementary School PO#


SAMPLES: 11

Samples collected in New York state? ☐ Yes ☒ No

SAMPLE NUMBER	SAMPLE DATE / TIME	SAMPLE LOCATION AND DESCRIPTION	SAMPLE TYPE		POTABLE WATER		TEST TYPE		LAB USE ONLY			
			WATER	SWAB	YES	NO	LEGIONELLA	Heterotrophic Plate Count	Chlorine (ppm)	Temperature (°C)		
W-LES-92120-1	9/21/2020	8:30-9:00am	Mechanical Room - Hot Water Tank - Hot - First Draw	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
W-LES-92120-2	9/21/2020	8:30-9:00am	Mechanical Room - Municipal Water Supply - Cold - First Draw	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
W-LES-92120-3	9/21/2020	8:30-9:00am	Cafeteria Corridor - Bottle Filling Station - Cold - Flush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
W-LES-92120-4	9/21/2020	8:30-9:00am	Boys Restroom - Faucet - Hot - Flush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
W-LES-92120-5	9/21/2020	8:30-9:00am	Classroom K-7 - Faucet - Hot - Flush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
W-LES-92120-6	9/21/2020	8:30-9:00am	Classroom 6 - Faucet - Hot - Flush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
W-LES-92120-7	9/21/2020	8:30-9:00am	Classroom 22 - Faucet - Cold - Flush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
W-LES-92120-8	9/21/2020	8:30-9:00am	Classroom 14 - Faucet - Hot - First Draw	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
W-LES-92120-9	9/21/2020	8:30-9:00am	Kitchen - Faucet - Hot - Flush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
RELINQUISHED BY - CUSTOMER (MUST SIGN)			DATE AND TIME		9/21/2020 @ 4:00pm		Analyst Initials					
RECEIVED BY - LAB USE ONLY			DATE AND TIME		09/22/20 1415		LABORATORY NUMBER		98019-20			



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COCAINE
ELITE
Program



PROJECT NAME/NUMBER: 20-0441 Worthington CSD - Liberty Elementary School

CUSTOMER NAME: Lawhon & Associates				SAMPLE TYPE	POTABLE WATER	TEST TYPE		LAB USE ONLY			
PROJECT NAME/NUMBER: 20-0441 Worthington CSD - Liberty Elementary School											
SAMPLE NUMBER	SAMPLE DATE / TIME	SAMPLE LOCATION AND DESCRIPTION		WATER	SWAB	YES	NO	LEGIONELLA	Heterotrophic Plate Count	Chlorine (ppm)	Temperature (°C)
W-L-E-S-92120-10	9/21/2020	8:30-9:00am	Mechanical Room - Hot Water Tank (R) - Hot - First Draw	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
W-L-E-S-92120-11	9/21/2020	8:30-9:00am	Nurse Office Restroom - Faucet - Hot - Flush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
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