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June 27, 2024

Butler County AVTS

210 Campus Lane

Butler, PA 16001

Attn: Mr. Nick Colonello

colonelloN@butlertec.us

Re: 2024 Potable Legionella Screening

Butler County AVTS

Butler, Butler County, Pennsylvania

PSI Project No. 08166037-1

Dear Mr. Colonello:

In accordance with your authorization, Professional Service Industries, Inc. (PSI), an Intertek company, has performed water sampling for legionella bacteria at the Butler County AVTS buildings located at 210 Campus Drive in Butler, Pennsylvania. The screening was conducted on June 6, 2024. Fifteen (15) samples were collected from potable water sources throughout the buildings. Legionella bacteria was not detected in the locations sampled.

Thank you for choosing PSI as your consultant for this project. If you have any questions, or if we can be of additional service, please call us at (412) 922-4001 x 0383.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

A handwritten signature in blue ink, appearing to read "Michael Kopar".

Michael Kopar, CIE

Project Manager, Environmental Services

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Enclosures



LIMITED LEGIONELLA SCREENING

At

**BUTLER COUNTY AVTS
210 CAMPUS LANE
BUTLER, PENNSYLVANIA 16001**

Prepared for

**BUTLER COUNTY AVTS
210 CAMPUS LANE
BUTLER, PENNSYLVANIA 16001**

Prepared by

**Professional Service Industries, Inc.
850 Poplar Street
Pittsburgh, PA 15220
Telephone 412-922-4001 x 0383**

PSI PROJECT NO. 08166037-1

June 27, 2024

A handwritten signature in blue ink, reading "Michael Kopar".

Michael Kopar, CIE
Project Manager

A handwritten signature in blue ink, reading "Greg Chambliss".

Greg Chambliss, RPIH, LEED-AP
Principal Consultant

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1. EXECUTIVE SUMMARY

Professional Service Industries, Inc. (PSI), an Intertek company, has conducted a limited screening for legionella bacteria in random locations throughout the Butler County AVTS buildings located at 210 Campus Lane in Butler, Butler County, Pennsylvania. The initial screening was conducted on June 6, 2024.

Fifteen (15) samples were collected on June 6, 2024 from random potable water sources. Legionella bacteria was not detected above the laboratory analytical detection limit in the samples collected.

The purpose of this screening was to document the legionella concentrations in the hot water heaters and random outlets throughout the facility buildings.

WATER SCREENING – JUNE 6, 2024

Fifteen (15) legionella water samples were collected from locations throughout the facility's buildings in accordance with the Culture Protocol for Environmental Sample Collection. Water samples were collected from the following locations (**bolded** locations indicate the presence of legionella):

- BVT-2 Large Conf Room sink faucet
- BVT-4 Cosmos Washing faucet
- BVT-7 Nurse's sink faucet
- BVT-10 Health sink faucet
- BVT-14 Bakery 3-bowl sink faucet
- BVT-H1 Hot Water 120 degrees
- BVT-H2 Hot Water 190 degrees
- BVT-24 3-Bowl, left
- BVT-30 Protective Services sink faucet
- BVT-31 Welding 2 sink faucet
- BVT-32 Auto Tech sink faucet
- BVT-35 Machine Shop sink faucet
- BVT- H3 Boiler Room HW tank
- BVT- 40 Heavy Equipment Hall BF 2
- BVT-44 Sports Medicine Hand Wash sink faucet

Legionella bacteria was **not** detected above the analytical detection limit in the water samples collected on June 6, 2024.



2. INTRODUCTION

Professional Service Industries, Inc. (PSI), an Intertek company, has conducted water sampling for legionella bacteria in 15 random locations throughout the Butler County AVTS buildings. PSI's Michael Kopar and/or Ms. Bri Sersevic conducted the water sampling on June 6, 2024.

2.1 AUTHORIZATION

E-mail authorization to conduct the water screening (lead and legionella) was given on June 1, 2024, by Mr. Nick Colonello, Director of Facilities for the Butler County AVTS.

2.2 SITE DESCRIPTION

The subject site area upon which this screening was conducted included samples from random locations throughout the Butler County AVTS buildings. The sampling locations were determined randomly by PSI and the client based on field observations.

2.3 PROJECT BACKGROUND

PSI was contacted to conduct a legionella-in-water screening throughout the facility's buildings. A total of 15 locations were sampled on June 6, 2024. No legionella bacteria were present in the samples collected on June 6, 2024.

2.4 PURPOSE AND SCOPE

The purpose of this screening was to document the conditions in order to make a determination of the presence or absence of legionella bacteria from water sources throughout the facility's buildings.

The scope of work included the collection and analysis of water samples for the presence of legionella bacteria and a report of the findings and recommendations. The screening was completed in general accordance with the authorized scope of work.



3. INVESTIGATION METHODOLOGIES

Field investigation and screening activities were conducted by PSI's Michael Kopar, Certified Indoor Environmentalist (CIE), Ms. Bri Sersevic and Mr. Nick Colonello. Prior to the commencement of sampling activities, the client provided site contact information and assisted in providing access to the facility.

3.1 LEGIONELLA SCREENING

A total of 15 locations throughout the facility's buildings were sampled on June 6, 2024. Based on the findings of the June 6, 2024 sampling, no further action appears warranted at this time. Analytical results of the June 6, 2024 sampling indicated no legionella bacteria to be present in the locations sampled.

In all, 15 water samples were collected in laboratory supplied 100 ml plastic bottles (with preservative) and analyzed for the presence of legionella in accordance with the Culture Protocol for Environmental Sample Collection. The samples were packed in a cooler with ice and delivered the same day to the laboratory for analysis. Water samples were collected directly into laboratory supplied water bottles in accordance with laboratory provided guidelines. The samples were analyzed at US Micro Solutions Laboratory in Latrobe, Pennsylvania in accordance with Analytical Method MIC 06 MIC 07 (ISO 11731:2017).



4. DATA ANALYSIS & INTERPRETATION

Analysis and interpretation of the data generated during the field investigation and laboratory testing is presented in the following sections. Where appropriate, the results are compared with regulatory limits, if available, or industry standard guidelines. Summaries of the analytical results are provided in the appendices.

4.1 LEGIONELLA SCREENING

WATER SCREENING

Legionella bacteria was **not** detected above the analytical detection limit in any of the 15 locations sampled on June 6, 2024.



5. CONCLUSIONS AND RECOMMENDATIONS

PSI has performed a limited legionella screening at the subject site in general accordance with the authorized scope of work. Legionella was not detected in any of the 15 locations sampled on June 6, 2024.

No further action appears warranted at this time. PSI recommends that water tank temperatures continue to be maintained at 140 degrees F, in accordance with recommended guidelines.



6. WARRANTY

LEGIONELLA SCREENING

PSI warrants that the findings contained herein have been prepared with the level of care and skill ordinarily exercised by professionals practicing in the community. The scope of work addressed readily accessible and exposed interior building areas. Observation or sampling of inaccessible areas such as behind walls or within ductwork was performed only at specific locations as described in this report. PSI's investigation did address determining the source of moisture intrusion into the subject area of the structure.

USE BY THIRD PARTIES

This report was prepared pursuant to the contract PSI has with the Butler County AVTS. That contractual relationship included an exchange of information about the subject site that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance on any use of this report by anyone other than the Butler County AVTS, for whom it was prepared, is prohibited and therefore not foreseeable to PSI. Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to PSI's contract with the Butler County AVTS. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

UNIDENTIFIABLE CONDITIONS

This limited legionella Screening has been developed to provide the client with information regarding apparent conditions relating to the subject property. Although PSI believes that the findings and conclusions provided in this report are reasonable, the sampling is necessarily limited to the conditions observed and to the information available at the time of the work. Due to the nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the Screening, or which were not apparent at the time of our site work. The Screening is also limited to information available from the client at the time it was conducted. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. PSI does not accept responsibility for changes in the state of the art. No other warranties are implied or expressed.



APPENDIX A

ANALYTICAL RESULTS

Customer Name: PSI
Customer Address: 850 Poplar St
Pittsburgh, PA 15220

Sample Date: August 6, 2024
Date Received: August 6, 2024
Date of Report: June 17, 2024

Customer Phone: (724) 630-1713
PO Number:

Fax:
Attention:
Analysis Date: August 6, 2024
Sample Time: 0800
Analysis Time (hrs): 8.0

Project Name/Number: 08166037

Customer sample numbers below are uniquely identified by prefixing Laboratory # 06-0020348-24

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
BVT-2	BCYE/GPCV	Lg. Conf.	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-4	BCYE/GPCV	Comso Wash	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-7	BCYE/GPCV	Nurse Sink	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-10	BCYE/GPCV	Health Sink	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-14	BCYE/GPCV	Bakery 3 Bowl	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-H1	BCYE/GPCV	HW 120°	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected

Notes:

CFU/mL = colony forming units per milliliter, AS = analytical sensitivity. Analysis time = time elapsed from sample collection to start of incubation.
Results are reported as Positive or Not Detected.

A negative culture for *Legionella* spp. from a sample does not necessarily rule out its presence.
Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. 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. 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: Deanna L. Kiska
Deanna L. Kiska, Ph.D.

Customer Name: PSI
Customer Address: 850 Poplar St
Pittsburgh, PA 15220

Sample Date: August 6, 2024
Date Received: August 6, 2024
Date of Report: June 17, 2024

Customer Phone: (724) 630-1713
PO Number:

Fax:
Attention:
Analysis Date: August 6, 2024
Sample Time: 0800
Analysis Time (hrs): 8.0

Project Name/Number: 08166037

Customer sample numbers below are uniquely identified by prefixing Laboratory # 06-0020348-24

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
BVT-H2	BCYE/GPCV	HW 190°	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-24	BCYE/GPCV	3 bowl left	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-30	BCYE/GPCV	Protective Services Sink	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-32	BCYE/GPCV	Auto Tech	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-35	BCYE/GPCV	Machine Shop Sink	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-H3	BCYE/GPCV	Baker Rm HW Tank	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected

Notes:

CFU/mL = colony forming units per milliliter, AS = analytical sensitivity. Analysis time = time elapsed from sample collection to start of incubation.
Results are reported as Positive or Not Detected.

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

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Technical Manager: Deanna L. Kiska
Deanna L. Kiska, Ph.D.

Customer Name: PSI
Customer Address: 850 Poplar St
Pittsburgh, PA 15220

Customer Phone: (724) 630-1713
PO Number:

Project Name/Number: 08166037

Sample Date: August 6, 2024
Date Received: August 6, 2024
Date of Report: June 17, 2024

Fax:
Attention:
Analysis Date: August 6, 2024
Sample Time: 0800
Analysis Time (hrs): 8.0

Customer sample numbers below are uniquely identified by prefixing Laboratory # 06-0020348-24

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
BVT-40	BCYE/GPCV	Heavy Equip Hall BF2	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-44	BCYE/GPCV	South Med Hand Wash	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected
BVT-31	BCYE/GPCV	Welding 2 Sink	
AS = 0.5 CFU/mL (Volume examined: 100 mL)			Not Detected

Notes:

CFU/mL = colony forming units per milliliter, AS = analytical sensitivity. Analysis time = time elapsed from sample collection to start of incubation.
Results are reported as Positive or Not Detected.

A negative culture for *Legionella* spp. from a sample does not necessarily rule out its presence.
Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. 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. 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: Deanna L. Kiska
Deanna L. Kiska, Ph.D.

Interpretation of Legionella Culture Results

There are no federal action levels for *Legionella*, however some states, agencies, and organizations have published interpretive guidelines for *Legionella* quantitative culture results. The tables below were modified from *Legionella 2019: A Position Statement and Guidance Document* published by the Association of Water Technologies; the full text and additional resources may be accessed [here](#). It is ultimately the responsibility of a qualified professional to select actions that are appropriate for the situation being evaluated.

Legionella Control Programs: Potable Water

Regulatory Authority	Test Frequency	Legionella Concentration (CFU/mL)	Remediation
NY City	No data		No data
NY State*	Every 90 days first year, annually thereafter	<30% positive results of sites tested	Maintain water management plan (WMP).
		≥30% positive results of sites tested	Immediate short-term control levels. Retest. Persistent ≥30% results - institute long-term control levels.
AIHA	2x/year	1-9	Continue monitoring and review WMP.
		10-100	Identify infection source and online disinfection.
		>100	Identify infection source and offline disinfection.

* Regulation addresses covered facilities (general hospitals and residential healthcare facilities)

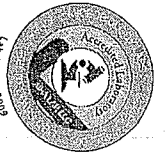
Legionella Control Programs: Cooling Towers & Evaporative Condensers

Regulatory Authority	Test Frequency	Legionella Concentration (CFU/mL)	Remediation
NY City	At system startup and every 90 days thereafter	<10	Maintain water chemistry and biocide levels.
		≥10 - <100	Online disinfection within 24 hours. Retest.
		≥100 - <1000	Online disinfection within 24 hours. Retest. Review WMP.
		≥1000	Online disinfection within 24 hours. Offline disinfection within 48 hours. Retest. Notify DOH within 24 hours of results.
NY State	At system startup and every 90 days thereafter	<20	Maintain water chemistry and biocide levels.
		≥20 - <1000	Online disinfection immediately. Retest. Review WMP.
		≥1000	Online disinfection immediately. Retest. Review WMP. Any retest >1000 offline disinfection immediately.
AIHA	Monthly	10-99	Review WMP and retest until <10 CFU/mL.
		100-1000	Review WMP and conduct an online disinfection until consistently <10 CFU/mL.
		≥1000	Review WMP and conduct an offline disinfection until consistently <10 CFU/mL.

- NY City: *Chapter 8 (Cooling Towers)* of Title 24 of the Rules of the City of New York (2015)
- NY State: *Protection Against Legionella* (2016)
- AIHA: American Industrial Hygiene Association. *Recognition and Control of Legionella in Building Water Systems* (2015)

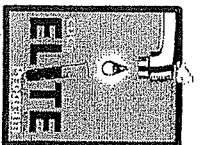


ALA-LAP, LLC
EMLAP #103009



U.S. Micro Solutions, Inc.
302 North Plaza
Lafayette, PA
PHONE: 724-853-4047 FAX: 724-853-4049
supplies@usmslab.com

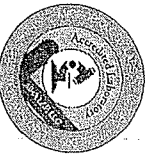
LEGIONELLA / WATER LABORATORY TEST REQUEST/CHAIN OF CUSTODY



CUSTOMER NAME: PS I		PHONE #: 724-630-1713		FAX #:	
ADDRESS: 850 Poplar St		CITY: Pittsburgh		STATE: PA	
ATTENTION TO:		E-MAIL: Mike.kopar@intertek.com		ZIP:	
SAMPLE OBTAINED BY: 11 Kopar		RESULTS: ☐ FAX ☒ EMAIL			
PROJECT NAME/NUMBER: 08166037		PO#			
# SAMPLES: 15	Samples collected in New York state? ☐ Yes ☒ No				
SAMPLE NUMBER	SAMPLE PATIENT TIME	SAMPLE LOCATION AND DESCRIPTION		WATER	
BVT-2	8:00	Lg. conf		☒	☐
BVT-4	8:07	Cosmo wash		☒	☐
BVT-7	8:12	Nurse Sink		☒	☐
BVT-10	8:12	Health sink		☒	☐
BVT-14	8:12	Bakery 3 bowl		☒	☐
BVT-H1	8:29	Hw 120°		☒	☐
BVT-H2	8:29	Hw 190°		☒	☐
BVT-24	8:24	3 bowl left		☒	☐
BVT-30	8:24	Protective Services Sink		☒	☐
RELINQUISHED BY - CUSTOMER (MUST SIGN)		DATE AND TIME		DATE AND TIME	
RECEIVED BY - LAB USE ONLY		DATE AND TIME		LABORATORY NUMBER	

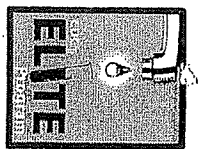
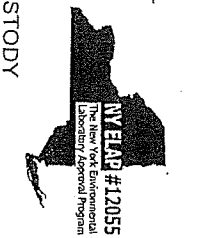


HAHA-LAP, LLC
EMLAP #103009



U.S. Micro-Solutions, Inc.
302 Unity Plaza
Lafayette, PA
PHONE: 724-853-4047 FAX: 724-853-4049
supplies@usmislabs.com

LEGIONELLA / WATER LABORATORY TEST REQUEST/CHAIN OF CUSTODY



CUSTOMER NAME: P31		PHONE #: 724 630 1713		FAX #:								
ADDRESS: 850 Poplar St		CITY: Pittsburgh		STATE: PA								
ATTENTION TO:		EMAIL: Mike Kagar		ZIP:								
SAMPLE OBTAINED BY: M. Kagar	RESULTS: ☐ FAX ☒ EMAIL											
PROJECT NAME/NUMBER: 0816037	PO #											
# SAMPLES: 15	Samples collected in New York state? ☐ Yes ☒ No											
SAMPLE NUMBER	SAMPLE DATE/TIME	SAMPLE LOCATION AND DESCRIPTION		WATER	SWAB	POTABLE WATER	YES	NO	LEGIONELLA	Heterotrophic Plate Count	COLILERT	LAB USE ONLY
BVT-32	6/16/99	903	Auto Tech	☒	☐	☒	☐	☐	☒	☐	☐	☐
BVT-35	6/16	911 AM	Machine Shop Sink	☒	☐	☒	☐	☐	☒	☐	☐	☐
BVT-43	6/16	922	Bales for the Tank	☒	☐	☒	☐	☐	☒	☐	☐	☐
BVT-40	6/16	924	Heavy Equip Hall B/F 2	☒	☐	☒	☐	☐	☒	☐	☐	☐
BVT-44	6/16	934	Spit MD hand wash	☒	☐	☒	☐	☐	☒	☐	☐	☐
BVT-31	6/16	900	Welding 2 sink	☒	☐	☒	☐	☐	☒	☐	☐	☐
RELINQUISHED BY - CUSTOMER (MUST SIGN)												
RECEIVED BY - LAB USE ONLY												
DATE AND TIME: 06/16/99 1:30												
LABORATORY NUMBER: 06-0020348-24												
Analyst Initials: AK												