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September 15, 2022

Mr. Dennis Pugliese  
Greenburgh Central School  
District 475 West Hartsdale  
Avenue Hartsdale, NY 10530

Re: **Richard Bailey Elementary School Legionella Water Testing**  
**33 West Hillside Avenue, White Plains, NY**

Dear Mr. Pugliese,

On September 1, 2022 at the request of Greenburgh Central School District, EnviroScience Consultants, performed limited potable water testing at the Richard Bailey Elementary School. The intent of the testing was to characterize the potential for the presence of Legionella within the building's water system.

Previous sampling completed in 2021 indicated detectable levels of Legionella in one of the sampling locations at the hot water tank. The district performed corrective actions and additional samples showed no detectable levels of Legionella. Therefore, a new round of sampling to evaluate the hot water systems was performed.

Sampling was performed at four different locations within the building to screen for Legionella. Locations tested include;

- Hot water storage tank
- Kitchen hot water faucet
- 3<sup>rd</sup> Floor bottle filler at boy's room
- 3<sup>rd</sup> floor boy's bathroom sink (left)

The samples were placed in laboratory supplied containers, properly preserved, and transported to New York Environmental for analysis. Additionally, a chain-of-Custody form was completed to document the sequence of each sample possession.

Results from the testing revealed three of the four samples contained detectable levels of Legionella including the hot water tank, kitchen hot water faucet, and 3<sup>rd</sup> floor boy's bathroom sink. Legionella was not detected in the 3<sup>rd</sup> floor bottle filler station.

A treatment protocol is recommended to address the detected legionella. After treatment additional sampling is recommended to confirm the treatment is effective.

Please see attached chains of custody and sample results for the collected samples.

Should you have any questions about these results, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, reading "Kathryn Loddengaard". The signature is fluid and cursive, with the first name "Kathryn" being more prominent than the last name "Loddengaard".

Kathryn Loddengaard  
Department Manager of Environmental Studies

## Laboratory Report

Report No.: 2224564-22943

September 14, 2022

Enviroscience Consultants, Inc.  
2150 Smithtown Avenue  
Ronkonkoma, NY 11779

Project: Richard Bailey Elementary School; White Plains, NY

Dear Project Manager,

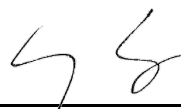
Enclosed is the Laboratory Analytical Report for water sample(s) received on September 01, 2022. New York Environmental analyzed the samples on September 12, 2022 for presence of Legionella(e) by ISO Method 11731 (2017).

If there are any questions regarding the analyses, please feel free to contact us at your convenience. New York Environmental is a NELAP accredited laboratory. Attached reported results meet the requirements of the NELAP standards unless otherwise noted.

Samples' analytical results relate only to the samples tested, in the condition received by the laboratory. This report shall not be reproduced except in its entirety without written approval of the laboratory.

We sincerely thank you for your business, and look forward to being of service for your future environmental testing needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Li Tsang', is positioned above a horizontal line.

Li Tsang, Laboratory Director

<b>Lab Sample ID:</b>	220901O001	<b>Collected:</b>	9/1/2022	10:45
<b>Client ID:</b>	1	<b>Received:</b>	9/1/2022	12:20
<b>Description:</b>	Boiler Rm - Hot Water Tank			

Parameter	Method	Analysis Date	LOQ	Result	Units	Flag(s)
Colony Count	ISO 11731 (2017)	09/12/22	0.41	2.85	CFUs/mL	
Vol. Examined		09/01/22	n/a	2.46	mL	
Incubation Time In	Time	09/01/22	n/a	16:15	hh:mm	
Incubation Time Out	Time	09/12/22	n/a	12:00	hh:mm	
Residual Cl <sub>2</sub>	Chlorine Strip	09/01/22	0.1	<0.1	ppm	
Received Temp.		09/01/22	n/a	22.2	°C	
Disinfectant		09/01/22	n/a	See Comment	N/A	

<b>Lab Sample ID:</b>	220901O002	<b>Collected:</b>	9/1/2022	10:48
<b>Client ID:</b>	2	<b>Received:</b>	9/1/2022	12:20
<b>Description:</b>	Kitchen Hot Water Faucet			

Parameter	Method	Analysis Date	LOQ	Result	Units	Flag(s)
Colony Count	ISO 11731 (2017)	09/12/22	0.07	9.20	CFUs/mL	
Vol. Examined		09/01/22	n/a	15.2	mL	
Incubation Time In	Time	09/01/22	n/a	16:15	hh:mm	
Incubation Time Out	Time	09/12/22	n/a	12:00	hh:mm	
Residual Cl <sub>2</sub>	Chlorine Strip	09/01/22	0.1	<0.1	ppm	
Received Temp.		09/01/22	n/a	22.2	°C	
Disinfectant		09/01/22	n/a	See Comment	N/A	

<b>Lab Sample ID:</b>	220901O003	<b>Collected:</b>	9/1/2022	10:50
<b>Client ID:</b>	3	<b>Received:</b>	9/1/2022	12:20
<b>Description:</b>	3rd Floor Bottle Filler @Boys Room			

Parameter	Method	Analysis Date	LOQ	Result	Units	Flag(s)
Colony Count	ISO 11731 (2017)	09/12/22	0.07	ND	CFUs/mL	
Vol. Examined		09/01/22	n/a	14.8	mL	
Incubation Time In	Time	09/01/22	n/a	16:15	hh:mm	
Incubation Time Out	Time	09/12/22	n/a	12:00	hh:mm	
Residual Cl <sub>2</sub>	Chlorine Strip	09/01/22	0.1	<0.1	ppm	
Received Temp.		09/01/22	n/a	22.2	°C	
Disinfectant		09/01/22	n/a	See Comment	N/A	

<b>Lab Sample ID:</b>	220901O004	<b>Collected:</b>	9/1/2022	10:53
<b>Client ID:</b>	4	<b>Received:</b>	9/1/2022	12:20
<b>Description:</b>	3rd Floor Boys BR Sk (Left)			

Parameter	Method	Analysis Date	LOQ	Result	Units	Flag(s)
Colony Count	ISO 11731 (2017)	09/14/22	0.07	3.90	CFUs/mL	
Vol. Examined		09/01/22	n/a	15.4	mL	
Incubation Time In	Time	09/01/22	n/a	16:15	hh:mm	
Incubation Time Out	Time	09/12/22	n/a	12:00	hh:mm	
Residual Cl <sub>2</sub>	Chlorine Strip	09/01/22	0.1	<0.1	ppm	
Received Temp.		09/01/22	n/a	22.2	°C	
Disinfectant		09/01/22	n/a	See Comment	N/A	



**Comment(s) and Abbreviation(s):**

CFUs: Colony Forming Units

ND: Not Detected

LOQ: Limit of Quantitation

Water source is potable, no additional disinfectants.




## Chain of Custody - General

[illegible]

Relinquished:

Chris Oatz

Signature:



Date: 9/1/22

Time: 12:20

Received :

Signature:

Date: \_\_\_\_\_

Time: \_\_\_\_\_

**Lab Use Only:**

NYEA Project No.	Temp. 22.2°C	Analyst Initials	Analysis Date:
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