



Birmingham Public Schools  
 Legionella Sampling Analysis  
 Project Number: AE200893

Seaholm High School Annex Building										
Date of Sampling: January 14, 2021										
Sampler: Victoria Vo										
Sample #	Location	Time Collected	Bottle Type	Chlorine (ppm)	Temp °C	pH	Legionella Pneumophila Lab Result	Other Legionella Species <sup>3</sup> Lab Results	Total Legionella raw ct.	Total Legionella (cfu (colony forming units)/ml)
Seaholm-50	Annex Building, Room 4, Single Sink, Faucet	8:23 AM	Swab	N/A	N/A	N/A	ND	ND	ND	<20
Seaholm-50	Annex Building, Room 4, Single Sink, Faucet	8:25 AM	1 Liter	0	38.1	7.47	ND	ND	ND	<0.1
Seaholm-51	Annex Building, Room 2, Single Sink, Faucet	8:09 AM	Swab	N/A	N/A	N/A	ND	ND	ND	<20
Seaholm-51	Annex Building, Room 2, Single Sink, Faucet	8:11 AM	1 Liter	0.00	39.3	7.57	ND	ND	ND	<0.1
Seaholm NP-283	Annex Building, West End, Men's Bathroom, Bathroom Faucet	8:59 AM	Swab	N/A	N/A	N/A	ND	ND	ND	<20
Seaholm NP-283	Annex Building, West End, Men's Bathroom, Bathroom Faucet	9:00 AM	1 Liter	0.00	49.3	7.72	ND	ND	ND	<0.1
Annex HWH-01	Annex Building, Storage Room adjacent to East Entrance, Hot Water Heater	8:43 AM	1 Liter	0	43.7	7.55	ND	ND	ND	<0.1

- 1) <0.1 is the detection limit for Legionella in bulk water samples
- 2) <20 is the detection limit for Legionella in bioswab samples
- 3) See attached analytical results for full list of other Legionella species



EMLab P&K

Report for:

**Lindsey Evelith**  
**Arch Environmental - healthAIR**  
37720 Interchange Drive  
Farmington Hills, MI 48335

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Regarding: Project: AE200893; Seaholm High School (Annex)  
EML ID: 2557560

Approved by:

Dates of Analysis:  
Legionella-CDC method: 01-28-2021

Cluster Leader  
Dr. Kamash Pillai

Service SOPs: Legionella-CDC method (EM-BT-S-1687)  
AIHA-LAP, LLC accredited service, Lab ID #176641

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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Client: Arch Environmental - healthAIR  
C/O: Lindsey Evelith  
Re: AE200893; Seaholm High School (Annex)Date of Sampling: 01-14-2021  
Date of Receipt: 01-15-2021  
Date of Report: 01-28-2021**QUANTITATIVE LEGIONELLA REPORT**

Location:	1: Seaholm - 50 Swab		2: Seaholm - 50 Bulk		3: Seaholm - 51 Swab		4: Seaholm - 51 Bulk	
Comments (see below)	None		None		None		None	
Lab ID-Version†:	12192868-1		12192869-1		12192870-1		12192871-1	
Analysis Date:	01/28/2021		01/28/2021		01/28/2021		01/28/2021	
Sample type	Swab sample		Water sample		Swab sample		Water sample	
Volume filtered (ml)	N/A		200		N/A		200	
Reporting Units	1 swab		1 ml		1 swab		1 ml	
Detection Limit†	< 20		< 0.1		< 20		< 0.1	
Analytical Sensitivity†	< 20		< 0.1		< 20		< 0.1	
	raw ct.	cfu*/unit	raw ct.	cfu*/unit	raw ct.	cfu*/unit	raw ct.	cfu*/unit
L. pneumophila serotype 1								
L. pneumophila serotype 2-15								
Other Legionella species								
<b>§TOTAL Legionella</b>	ND	< 20	ND	< 0.1	ND	< 20	ND	< 0.1

\*cfu = colony forming units ND = none detected

**Comments:**

For water samples, the submitted volume affects dilution factor and limit of detection. A sample volume of at least 200ml is recommended for potable water samples for environments with high-risk populations and some other applications. Guidance on sampling, action thresholds and other relevant information can be found at (<https://www.osha.gov>) as well as other international, national and local agencies.

Identifiers listed without a count or data entry were not detected during the course of the analysis for the respective sample.

"Other Legionella species" include, but are not limited to, the following organisms: *Legionella anisa*, *Legionella bozemanii*, *Legionella dumoffii*, *Legionella gormanii*, *Legionella jordanis*, *Legionella longbeachae 1 and 2*, and *Legionella micdadei*.

† The limit of detection is a raw count of 1 at the lowest dilution plated, represented here as a theoretical detection limit of 1 raw count/reporting unit x the dilution factor on the lowest dilution plated. The analytical sensitivity is represented as being equal to 1 raw count/reporting unit x the dilution factor, but on the on the lowest reportable (or countable) dilution plated.

§ Total CFU/unit has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Arch Environmental - healthAIR  
 C/O: Lindsey Evelith  
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Date of Sampling: 01-14-2021  
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**QUANTITATIVE LEGIONELLA REPORT**

Location:	5: Seaholm - NP-283 Swab		6: Seaholm - NP-283 Bulk		7: Annex HWH - 01 Bulk	
Comments (see below)	None		None		None	
Lab ID-Version†:	12192872-1		12192873-1		12192874-1	
Analysis Date:	01/28/2021		01/28/2021		01/28/2021	
Sample type	Swab sample		Water sample		Water sample	
Volume filtered (ml)	N/A		200		200	
Reporting Units	1 swab		1 ml		1 ml	
Detection Limit‡	< 20		< 0.1		< 0.1	
Analytical Sensitivity‡	< 20		< 0.1		< 0.1	
	raw ct.	cfu*/unit	raw ct.	cfu*/unit	raw ct.	cfu*/unit
L. pneumophila serotype 1						
L. pneumophila serotype 2-15						
Other Legionella species						
<b>§TOTAL Legionella</b>	ND	< 20	ND	< 0.1	ND	< 0.1

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