Apex EHS Services Inc. 2A-1445 McGill Road, Kamloops, BC

Phone: 236-425-5244 Email: apex@apexehs.ca

APEX EHS SERVICES

February 20, 2024

APEX Project Number: ONSK24-015

On Side Restoration 755 Laval Crescent Kamloops, BC

Attention: Tim Hedrick

Mould Air Sampling Results Letter

Project Address: 1501 Voght Street, Merritt, BC Client Reference: Merritt Central Elementary School

Introduction

Apex EHS Services Inc. (Apex) was retained by On Side Restoration to conduct mould air sampling at Merritt Central Elementary School located at 1501 Voght Street, Merritt, BC.

Scope of Work

Apex's scope of work included the following:

- Collection and analysis of 11 mould air samples including 8 samples within the building, two outdoor reference samples and one field blank for quality control purposes; and
- Preparation of this letter.

Methodology

The air samples were collected by Becky Mizzi, *Hazardous Material Technician* of Apex on February 19, 2024. Photographs of sampling locations are appended to the end of this report.

The assessor collected spore trap air samples using Allergenco-D impactor cassettes using a constant flow Bio-pump. The assessor calibrated the pump before and after each sample. Samples were analyzed in accordance with ASTM Method D7391-17 by Optical Microscopy and Apex SOP: MLD-1.

Mould Air Sampling Results

The results of air sampling for mould require careful interpretation. There are no accepted numerical criteria for indoor fungal spore concentrations. The accepted practice among leading authorities is comparison of samples in areas of concern with outdoor and/or indoor control samples. An acceptable condition is indicated when concentrations of airborne fungal particles are not significantly elevated when compared to concentrations in the control samples, and the types of fungal particulate do not differ significantly from those present in the control samples.

Mould air samples collected within the South End of the North Hallway and within the West Hallway of the school were quantitatively lower and qualitatively similar to outdoor reference samples.

Fungal elements were not identified on air samples collected within the North End of the North Hallway, Classroom 17, Classroom 21, Classroom 22, and East Hallway.

Sample results indicate that mould growth was not impacting on air quality at the time of sampling.

Laboratory analytical results are attached to this report.

Closure

This project was limited to mould air sampling only. No inspection of the building was conducted at the time of sampling.

Prepared By:

Becky Mizzi, Dip. Chem. Tech. Hazardous Materials Technician

For Apex EHS Services Ltd. Telephone: 250.868.0667

Email: bmizzi@apexehs.ca

Attached:

Photographs of Sampling Locations Mould Air Sampling Laboratory Results

Terms of Reference

Reviewed by:

Matt Summers, B.Sc., EP(OHS)

Project Manager

For Apex EHS Services Ltd. Telephone: 236-425-5244

Email: msummers@apexehs.ca



Mould air sample collected within the North End of the North Hallway.



Mould air sample collected within the South End of the North Hallway.



Mould air sample collected within Classroom 17.

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Mould air sample collected within Classroom 18.



Mould air sample collected within Classroom 21.



Mould air sample collected within Classroom 22.

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Mould air sample collected within the West Hallway.



Mould air sample collected within the East Hallway.

Apex EHS Services Inc.

Samples Analyzed:

1519 Keehn Road, Kelowna, BC, V1X 5T5

Phone: 250-868-0667 Email: apex@apexehs.ca

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FUNGAL SPORE ANALYSIS REPORT

Client: On Side Restoration Services **Apex Report No.:** ONSK24-015

Client Project No: Project Location: 1501 Voght Street, Merritt, BC 23-10-388331

Samples Received: **Client Project Name:** 11 Merritt Central Elementary

School - Crawl Space -

Mechanical

20/02/2024 **Date Reported:**

Spore Trap Sample Lab Number ^a :	MS3030		MS3031		MS3032		MS3033		MS3034		MS3035		MS3036	
Client Number:	ST01		ST02		ST03		ST04		ST05		ST06		ST07	
Location:	Field Blank		Outdoor Reference 1		Outdoor Reference 2		North End North Hallway		South End North Hallway		Classroom 17		Classroom 18	
Serial Number:	5758459		5758625		5758616		5758487		5758449		5758508		5758552	
Expiry Date:	11/2024		11/2024		11/2024		11/2024		11/2024		11/2024		11/2024	
Volume (L):	0		150		150		150		150		150		150	
Magnification (x):	600		600		600		600		600		600		600	
Background Ratingb:	0+		3+		3+		1+		1+		1+		1+	
# of Traverses Counted:	10		10		10		10		10		10		10	
Fungal Identification	(Raw Count) Elements/m³													
Aspergillus/Penicillium - type	(-)	-	(-)	-	(3)	93	(-)	-	(-)	-	(-)	-	(-)	-
basidiospores (undifferentiated)	(-)	-	(-)	-	(-)	-	(-)	-	(1)	31	(-)	-	(-)	-
Cladosporium	(-)	-	(2)	62	(5)	155	(-)	-	(-)	-	(-)	-	(-)	-
hyphal fragments	(-)	-	(-)	-	(1)	31	(-)	-	(Tra)	-	(-)	-	(-)	-
Summary														
Total (Raw Count)	None Detected		2		9		None Detected		1		None Detected		None Detected	
LOD°(elements/m³)	N/A		31		31		31		31		31		31	
Total (elements/m³)	N/A		62		279		N/A		31		N/A		N/A	

American Industrial Hygiene Association (AIHA) EMPAT Progam Laboratory Number 224210.

Apex EHS Services will not accept any responsibility as to the manner of interpretation of these results.

Authorized by:

Amanda Copp, B.Sc., EP. Laboratory Manager

Analyst: S. Donkin 1 of 1

^aSamples analyzed in accordance with EPA Method D7931-17 by Optical Microscopy and Apex SOP: MLD-1.

Background Rating of particulate matter: 0+ = no particulate matter, 1+ = >0 to approx. 5%, 2+ = approx. 5% to 25%, 3+ = approx 25% to 75%, 4+ = approx. 75% to 90%, 5+ = > 90%. Note that negative bias increases as particulate background rating increases. CLOD = Limit of Detection.

Apex EHS Services Inc.

Samples Analyzed:

1519 Keehn Road, Kelowna, BC, V1X 5T5

Phone: 250-868-0667 Email: apex@apexehs.ca

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FUNGAL SPORE ANALYSIS REPORT

Client: On Side Restoration Services **Apex Report No.:** ONSK24-015

1501 Voght Street, Merritt, BC **Client Project No:** 23-10-388331 **Project Location:**

Samples Received: **Client Project Name:** Merritt Central Elementary 11

School - Crawl Space -

Mechanical

20/02/2024 **Date Reported:**

Spore Trap Sample Lab Number ^a :	MS3037	MS3038	MS3039	MS3040					
Client Number:	ST08	ST09	ST10	ST11					
Location:	Classroom 21	Classroom 22	West Hallway	East Hallway					
Serial Number:	5758562	5758702	5758457	5758526					
Expiry Date:	11/2024	11/2024	11/2024	11/2024					
Volume (L):	150	150	150	150					
Magnification (x):	600	600	600	600					
Background Ratingb:	1+	1+	1+	1+					
# of Traverses Counted:	10	10	10	10					
Fungal Identification	(Raw Count) Elements/m³								
basidiospores (undifferentiated)	(-) -	(-) -	(3) 93	(-) -					
Summary									
Total (Raw Count)	None Detected	None Detected	3	None Detected					
LOD°(elements/m³)	31	31	31	31					
Total (elements/m³)	N/A	N/A	93	N/A					

American Industrial Hygiene Association (AIHA) EMPAT Progam Laboratory Number 224210.

Apex EHS Services will not accept any responsibility as to the manner of interpretation of these results.

Authorized by:

Amanda Copp, B.Sc., EP.

Laboratory Manager

Analyst: S. Donkin 1 of 1

^aSamples analyzed in accordance with EPA Method D7931-17 by Optical Microscopy and Apex SOP: MLD-1.

Background Rating of particulate matter: 0+ = no particulate matter, 1+ = >0 to approx. 5%, 2+ = approx. 5% to 25%, 3+ = approx 25% to 75%, 4+ = approx. 75% to 90%, 5+ = > 90%. Note that negative bias increases as particulate background rating increases. CLOD = Limit of Detection.

TERMS OF REFERENCE

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