

1818 New York Ave. NE, Ste 231, Washington, DC 20002

Telephone: (301) 595-3783 www.salutinc.com

January 3, 2018

Howard County Public School System Harriet Tubman Building 8045 Harriet Tubman Lane Columbia, MD 21044

Attention: Mr. Jeffrey Klenk (jeffrey\_klenk@hcpss.org)

RE: Glenwood Middle School Trailer #20, Mold Investigation

Mr. Klenk:

On October 4, 2017 a representative from Soil and Land Use Technology, Inc. (SaLUT) conducted a mold investigation in Trailer #20 at the Glenwood Middle School, a property maintained by the Howard County Public School System (HCPSS), located at 2690 MD-97, Glenwood, MD 21738. Mr. Herbert Savje, Director of School Facilities, accompanied the representative from SaLUT to view the area of concern.

#### Methodology

The IAQ evaluation conducted by SaLUT included a visual assessment, and collection of swab samples for mold in representative locations within Trailer #20.

Mold samples from areas of suspected mold growth were collected on Healthlink transporter Sterile Swabs.



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## **Observations**

The table below summarizes the main observations from the mold investigation in Trailer #20, visited on October 4, 2017.

Location	Summary of Observations
Trailer #20	No occupants at the time of inspection;
Floor area	1'x1' floor tile floor;
700 ft <sup>2</sup>	No visible water stains on the ceiling, Mild musty odor;
	No visible dust on floor/ other surfaces;
	No potted plants.

Table 1 shows the summary of mold swab sample analysis results and locations. Laboratory analysis follows this report (see attachment).

Table 1: Glenwood Middle School- Trailer #20, Results of Mold Swab samples; October 4, 2017 (03:15 PM- 4:15 PM)

Sample Location	Trailer #20 Front entrance door area- Underneath the floor tile	Trailer #20 Below the 1st window from the entrance-Underneath the floor tile	
Agrocibe/Coprinus	-	-	
Alternaria	-	•	
Ascospores	-	•	
Aspergillus/Penicillium	Low	Low	
Basidiospores	-	-	
Bipolaris++	-	-	
Chaetomium	High	High	
Cladosporium	-	-	
Curvularia	-	-	
Ерісоссит	-	-	
Fusarium	-	-	
Gonoderma	-	-	
Myxomycetes++	-	-	
Paecilomyces	-	-	
Rust	-	-	
Scopulariopsis	-	-	
Stachybotrys	-	-	
Torula	-	-	
Ulocladium	-	-	
Unidentifiable Spores	-	-	
Zygomycetes	-	-	
Pithomyces	-	-	
Fibrous Particulate	Low	Low	
Hyphal Fragment	Medium	Medium	
Insect Fragment	Rare	Low	
Pollen	-	-	



## Conclusion

Mold was detected in the swab samples from underneath the floor tiles in affected area.

### Recommendations

Prior to or in conjunction with the remediation efforts we recommend the cause of the expected reoccurring water intrusion (observed by HCPSS representative) be corrected. Based on the observations and the results of the swab samples at this facility, SaLUT recommends the following:

 Removal of affected floor tiles and flooring components, mold abatement, and replacement.

Thank you for the opportunity to provide industrial hygiene services for the Howard County Public School System. If you require additional information, please contact me at 301-595-3783.

Sincerely,

Chaminda Jayatilake, PE, CIH, CSP, CHMM

Certified Industrial Hygienist

Soil and Land Use Technology Inc (SaLUT)

#### **Attachments**

Appendix A- Mold Swab Sample Analytical Results and Chain-of-Custody
Forms

Appendix B- Photo Log



# Appendix A

Mold Swab Sample Analytical Results and Chain-of-Custody

**Forms** 

OrderID: 191712150



# Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

ENGL Order Number (Lab Use Only):	
(91712150	PHONE:
	Fax:

LANGRATORY - PRODUCTS - TRAMPING									
Company Name: SaLUT Inc				EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**					
Street: 1818 New York Ave Suite 231			_	Third Party Billing requires written authorization from third party					hird party
City: Washington	Str	ate/Province: DC		<u> </u>			Country:		
Report To (Name): Indika Jayatilake				Telephone #:					
Email Address: ija							Purchase Ord	er:	
Project Name/Num			l.s.	Please Provide Results:  Fax Email					
U.S. State Samples 1		Project Zip Cod	le:		Co	nnecticut S	amples: 🔲 (	commercial 🔲 R	esidential
*Analysis completed i	*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements								
		ate Preserved Bott							
Public \	Water Supply Sa	mples: 🔲 Note: All					to DOH if I	equired by stat	te
			Time (TAT) O			_			
☐ 3 Hour	☐ 6 Hour	24 Hour	☐ 48 Hour			<u> </u>	Hour	☐ 1 Week	2 Week
			icrobiology			(MET*)	M1145 Sour	ne Screen - Wate	r /D/Δ##\$)
M001 Air-O-Cell M030 Micro 5	M174 Mold						M116 Sewa	wage Screen - Water (P/A***) wage Screen - Water (MPN**)	
M041 Fungal Direct E	M032 Aller	genco-D	M017 Total Co	liform & E.	. coli (Co	diert	M117 Sewage Screen - Swab (P/A***) M013 Sewage Screen - Swab (MFT*)		
M169 Pollen ID & Enu				P/A***) M013 Sewage Screen - Swab (M018 Total Coliform & E. coli (MFT*) M133 Methicillin-resistant Stapi					
M280 Dust Characteri	zation Level-1		M114 Total Co		. coli En	umeration	(MRSA)	d assuéna non TD	Musebostoria
M281 Dust Characteri		ID 0 0 0	(Colilert MPN** M019 Fecal Co		-T*)			d-growing non-TB Enumeration	Mycobacteria
M005 Viable Fungi- A M006 Viable Fungi- A			M020 Fecal St	reptococci	us (MFT	*)	M014 Endo	toxin Analysis	
Aspergillus, Cladospo	rium, Stachybotrys	Species ID & Count)	M029 Enterococci (MFT*) M129 Enterococci (Enterolert P/A***)			\***)	M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)		
M007 Culturable fung M008 Culturable fung			M180 Real Tim				Other See Analytical Price Guide		
Penicillium, Aspergillu			Panel Legionella Analysis Please				use EMSL		
ID & Count) M009 Bacteria Culture	Crom Stain & Cou	unt.	M025 Sewage Screen –Water (MFT*) Legionella COC						
M010 Bacteria Count			*MFT= Membra			ni <b>qu</b> e			
M011 Bacteria Count		inent	**MPN= Most Probable Number  ***P/A= Presence/Absence						
M012 Pseudomonas a Name of Sampler:				Signatu	un of S	ampler:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Name of Sampler.	indika Jayalilake			Pota		ampier.			Temperature
Sample #	Sample Loca	tion/Description	Sample	NonPo	table	Test	Volume/	Date/Time	(.c)
Sample #	Sample Location/Description		Туре	(only		Code	Area	Collected	(Lab Use Only)
-					,13/			9/1/13	J,/
Example A1	Kitchen Sink/Ta	p	Water	⊠P		M017	100 mL	4:00 PM	
SWAB-1		O Front door Henr	914			M041		14/217	
SWAB-2	Trailer 20below	first window area			<u></u> NP_	M041	 	17	
					<u>_</u> NP	<u></u>	, ,		
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Client Sample # (s):			otal # of Samp	amples: Samples Received Chilled? Yes / No			No		
Relinquished (Client): // / Date: Time: O / 1000									
Received (Lab): ////////////////////////////////////									
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Proj:

# EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705 Phone/Fax: (301) 937-5700 / (301) 937-5701 http://www.EMSL.com / beltsvillelab@emsl.com Order ID: 19 Customer ID: SA

191712150 SALU50

Customer PO: Project ID:

Attn: Indika Jaynthlake

SaLUT

1818 New York Avenue, NE

Suite 218A

Washington, DC 20002 17-032/GLENWOOD M.S. Phone: (301) 595-3783 Fax: (301) 595-3787

Collected: 10/04/2017 Received: 10/05/2017

Analyzed: 10/05/2017

Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method: M041)

Lab Sample Number:		191712150-0002			
Client Sample ID:		SWAB-2			
Sample Location:	TRAILER 20 FRONT DOOR	TRAILER 20 BELOW FIRST			
	FLOOR AREA	WINDOW AREA			
O	Cotomoni	Cotomoni			
Spore Types	Category	Category	-	-	-
Agrocybe/Coprinus	-	-	-	-	-
Alternaria	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	Low	Low	-	-	-
Basidiospores	-	-	-	-	-
Bipolaris++	-	-	-	-	-
Chaetomium	*High*	*High*	-	-	-
Cladosporium	-	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	-	-	-	-	-
Paecilomyces	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis	-	-	-	-	-
Stachybotrys	-	-	-	-	-
Torula	-	-	-	-	-
Ulocladium	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Fibrous Particulate	Low	Low	-	-	-
Hyphal Fragment	Medium	Medium	-	-	-
Insect Fragment	Rare	Low	-	-	-
Pollen	-	-	-	-	-

Category: Count/per area analyzed

Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut \* = Sample contains fruiting structures and/or hyphae associated with the spores.

Stefanie Schneider, Microbiology Lab Manager or Other Approved Signatory

Janie Schneider

No discernable field blank was submitted with this group of samples.

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation of the data contained in this report is the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC--EMLAP Accredited #102891

Initial report from: 10/05/2017 16:30:05



Appendix B

**Photo Log** 

# Swab Sample Locations



