

The logo for CTEH, featuring the letters 'CTEH' in a bold, white, sans-serif font inside a dark blue square. A registered trademark symbol (®) is located to the upper right of the 'H'.

**CTEH**<sup>®</sup>

THE SCIENCE OF READY<sup>SM</sup>

# TRAFALGAR MIDDLE SCHOOL

## POST REMEDIATION ASSESSMENT

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Cape Coral, Florida  
October 14, 2022  
Project #021344

## Post Remediation Assessment

### Prepared By

Charles Connolly  
Senior Consultant

### Reviewed By

Jacob Fenske, CIH  
Director, Disaster Recovery

David Watts, CIH  
Senior Industrial Hygienist

Prepared on October 14, 2022

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## 1.0 Background

On September 28, 2022, Hurricane Ian made landfall in Cayo Costa, FL with winds of 155 miles per hour, two miles per hour short of a Category 5 hurricane. Over the course of two days, Ian moved across Florida, exiting on September 30, 2022, but not before causing major flooding and tornado-like damage in areas across the state.

In response to Hurricane Ian, CTEH was requested by Lemoine Disaster Recovery (Lemoine) to assess structures associated with Lee County School District awarded to them under RFQ No. 22-7431TA for potential water intrusion. On October 13 & 14, 2022, industrial hygienists from CTEH, LLC® (CTEH) and EFI Global, Inc. conducted post remediation verification (PRV) bioaerosol sampling and visually assessed the Trafalgar Middle School at 2120 Trafalgar Parkway, Cape Coral, FL 33991. All samples were collected under the supervision of a licensed mold assessor from EFI. The assessments were requested by Lemoine to assess the potential presence of airborne mold spores, and were conducted in both the impacted and non-impacted buildings.

Heating, ventilation, and air-conditioning (HVAC) for each room is provided by a HVAC system on the roof of the building.

At this time all rooms are sampled and there were no visible signs of mold in the rooms inspected and the airborne bioaerosol sampling confirmed mold spores were consistent with what would be found outdoors or in a typical building environment.

## 2.0 Exposure Standards and Guidelines

Currently, there are no generally accepted occupational or public health standards for interpreting airborne microbiological sample results. Individual susceptibility varies with genetic predisposition, age, state of health, concurrent exposures, and previous sensitization. Due to these challenges, it is not possible to determine an indoor spore concentration that can guarantee all individuals will be asymptomatic. Guidelines published by the American Industrial Hygiene Association (AIHA) recommend comparing the indoor and outdoor air sampling results. In general, the types of fungi and their airborne concentrations found indoors should be similar (in non-problem buildings) to outdoor air.<sup>[1]</sup> Differences in the airborne levels or types of fungi may indicate the presence of moisture sources and resultant fungal growth.

### 3.0 Methods and Equipment

All collected samples were sent under chain-of-custody to EMSL Analytical, Inc., an AIHA-accredited laboratory.\* All monitoring equipment was factory calibrated at the manufacturers recommended interval or prior to sampling.

Bioaerosol samples were collected indoors and outdoors using Zefon Air-O-Cell sampling cassettes attached to an SKC QuickTake 30 air sampling pump. Prior to sampling, the pump was calibrated to a flowrate of approximately 15 L/min, as specified by the sampling media manufacturer, using a Bios Defender 510 DryCal. Each sample was collected for a ten-minute duration resulting in a sampled air volume of approximately 150 Liters.† Samples were analyzed by microscopic examination using method EMSL 05-TP-003/ASTM D7391 to determine mold spore genus and spore concentration. This method does not differentiate between viable and non-viable spore types.

#### 3.1 Visual Inspection

A visual inspection was conducted in accessible portions of the classrooms, school common areas, and above drop ceilings as necessary.

#### 3.2 Psychrometric Assessment

A psychrometric assessment was conducted utilizing a Protimeter Hygromaster L (Model #: POL7750L) Hygrometer in both the impacted and non-impacted buildings.

### 4.0 Results

Laboratory reports for all samples are provided in **Appendix A**.

### 5.0 Conclusions and Recommendations

The inspections and tests were performed on October 13 & 14, 2022, by industrial hygienists from CTEH and EFI. The results of the post-remediation inspection revealed no visible mold growth but did reveal areas of carpet with moisture levels of 15% Wood Moisture Equivalent (%WME). Lemoine was notified of these areas of wet carpet on October 14, 2022 and advised to remediate. The post-remediation inspection also revealed psychrometric (i.e., atmospheric) readings above 55 Grains of Moisture per Pound of Air (GPP), which may warrant further investigation / dehumidification techniques to inhibit microbial growth.

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\* AIHA Laboratory Accreditation Program (AIHA-LAP) – Environmental Microbiology; AIHA Environmental Microbiology Proficiency Analytical Testing Program (AIHA-EMPAT) Participant; CDC Elite – Legionella

† See laboratory reports in the appendix for exact flowrates and collected volumes.

The results of the air testing in the assessed rooms are considered normal and typical and do not indicate the presence of elevated airborne mold spores. Assuming the areas of wet carpet identified on October 14, 2022 are addressed in a timely manner and prior to re-occupancy, no further testing is warranted at this time and the affected areas are permitted to be re-occupied without any further access restrictions.

## 6.0 References

[1] (AIHA), American Industrial Hygiene Association. *Facts About Mold*. Edited by American Industrial Hygiene Association (AIHA). Falls Church, Virginia: AIHA, 2011.

# Appendix A

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## Laboratory Reports



# EMSL Analytical, Inc.

5700 Memorial Highway, Suite 122 Tampa, FL 33615

Tel/Fax: (813) 280-8752 / (813) 280-8753

[http://www.EMSL.com / tampalab@emsl.com](http://www.EMSL.com/tampalab@emsl.com)

EMSL Order: 932205716

Customer ID: CTEH99

Customer PO:

Project ID:

**Attention:** Noah Ambos  
CTEH Center for Toxicology & Env. Health  
5120 North Shore Drive  
North Little Rock, AR 72118

**Phone:** (501) 454-1622

**Fax:** (501) 614-2835

**Collected Date:**

**Received Date:** 10/14/2022 09:25 AM

**Analyzed Date:** 10/14/2022

**Project:** 035.18478 Trafalgar Middle School

### Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	932205716-0001			932205716-0002			932205716-0003		
	T01	T02	T03	T01	T02	T03	T01	T02	T03
	150	150	150	150	150	150	150	150	150
	Bldg 1 - Classroom 01-006			Bldg 2 - Classroom - Teacher Planning			Bldg 4 - Cafeteria		
Spore Types	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	3	70	11	1	20	4.8	2	40	9.5
Aspergillus/Penicillium	6	100	15.8	7	200	48	3	70	16.7
Basidiospores	9	200	31.5	2	40	9.6	-	-	-
Bipolaris++	-	-	-	1	20	4.8	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	11	240	37.9	2	40	9.6	14	310	73.8
Curvularia	2*	10*	1.6	3	70	16.8	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	1	20	4.8	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Nigrospora	1*	7*	1.1	-	-	-	-	-	-
Pestalotia++	-	-	-	1*	7*	1.7	-	-	-
Spegazzinia	1*	7*	1.1	-	-	-	-	-	-
<b>Total Fungi</b>	<b>33</b>	<b>634</b>	<b>100</b>	<b>18</b>	<b>417</b>	<b>100</b>	<b>19</b>	<b>420</b>	<b>100</b>
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	1	20	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Gerald Iannuzzi, Laboratory Manager  
or other Approved Signatory

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

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. \*\*\*\* Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. Skin & Fibrous ratings: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-100%) of the background particles.

Samples analyzed by EMSL Analytical, Inc. Tampa, FL A2LA Accredited - Certificate #2845.28

Initial report from: 10/14/2022 11:06 AM

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)





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5700 Memorial Highway, Suite 122 Tampa, FL 33615

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Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	932205716-0004			932205716-0005			932205716-0006				
	T04	T05	T06	Bldg 5 - Band Room			Bldg 6 - Secretarial Space			Bldg 7 - Classroom 07-027	
	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total		
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-		
Ascospores	-	-	-	3	70	13	-	-	-		
Aspergillus/Penicillium	1	20	18.2	1	20	3.7	1	20	7.1		
Basidiospores	1	20	18.2	-	-	-	-	-	-		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium++	-	-	-	-	-	-	-	-	-		
Cladosporium	3	70	63.6	19	420	78.2	11	240	85.7		
Curvularia	-	-	-	1*	7*	1.3	1	20	7.1		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium++	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Cercospora++	-	-	-	-	-	-	-	-	-		
Nigrospora	-	-	-	-	-	-	-	-	-		
Pestalotia++	-	-	-	1	20	3.7	-	-	-		
Spegazzinia	-	-	-	-	-	-	-	-	-		
<b>Total Fungi</b>	<b>5</b>	<b>110</b>	<b>100</b>	<b>25</b>	<b>537</b>	<b>100</b>	<b>13</b>	<b>280</b>	<b>100</b>		
Hyphal Fragment	-	-	-	-	-	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	1	-	-	1	-	-	1	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Gerald Iannuzzi, Laboratory Manager  
or other Approved Signatory

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Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	932205716-0007			932205716-0008			932205716-0009				
	T07	T08	T09	Bldg 8 - Classroom 08-038			Bldg 10 - Classroom 10-048			Bldg 10 - 10-055	
Spore Types	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total		
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-		
Ascospores	1	20	1.3	9	200	16.6	-	-	-		
Aspergillus/Penicillium	10	210	13.6	3	60	5	-	-	-		
Basidiospores	4	80	5.2	5	100	8.3	-	-	-		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium++	-	-	-	-	-	-	-	-	-		
Cladosporium	60	1200	77.7	36	740	61.3	15	310	100		
Curvularia	1	20	1.3	3	60	5	-	-	-		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium++	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	1*	7*	0.5	2	40	3.3	-	-	-		
Pithomyces++	1*	7*	0.5	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Cercospora++	-	-	-	-	-	-	-	-	-		
Nigrospora	-	-	-	-	-	-	-	-	-		
Pestalotia++	-	-	-	1*	7*	0.6	-	-	-		
Spegazzinia	-	-	-	-	-	-	-	-	-		
<b>Total Fungi</b>	<b>78</b>	<b>1544</b>	<b>100</b>	<b>59</b>	<b>1207</b>	<b>100</b>	<b>15</b>	<b>310</b>	<b>100</b>		
Hyphal Fragment	3	60	-	-	-	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	1	-	-	2	-	-	1	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Gerald Iannuzzi, Laboratory Manager  
or other Approved Signatory

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Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	932205716-0010			932205716-0011			932205716-0012				
	T10	T11	T12	Bldg 9 - Gym			Bldg 6 - Library			Outside	
Spore Types	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total		
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-		
Ascospores	-	-	-	1	20	10	24	530	13.6		
Aspergillus/Penicillium	1	20	18.2	1	20	10	11	240	6.2		
Basidiospores	-	-	-	2	40	20	16	350	9		
Bipolaris++	-	-	-	1	20	10	-	-	-		
Chaetomium++	-	-	-	-	-	-	-	-	-		
Cladosporium	4	90	81.8	5	100	50	111	2450	62.8		
Curvularia	-	-	-	-	-	-	10	220	5.6		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium++	-	-	-	-	-	-	1	20	0.5		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	1	20	0.5		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Cercospora++	-	-	-	-	-	-	3	70	1.8		
Nigrospora	-	-	-	-	-	-	-	-	-		
Pestalotia++	-	-	-	-	-	-	-	-	-		
Spegazzinia	-	-	-	-	-	-	-	-	-		
<b>Total Fungi</b>	<b>5</b>	<b>110</b>	<b>100</b>	<b>10</b>	<b>200</b>	<b>100</b>	<b>177</b>	<b>3900</b>	<b>100</b>		
Hyphal Fragment	-	-	-	-	-	-	-	-	-		
Insect Fragment	-	-	-	1	20	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	1	-	-	1	-	-	1	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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or other Approved Signatory

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

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Samples analyzed by EMSL Analytical, Inc. Tampa, FL A2LA Accredited – Certificate #2845.28

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For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)