

1253 North Church Street, Moorestown, NJ 08057 www.ttienv.com o 856-840-8800 f 856-840-8815

October 4, 2024

Mr. Scott Krisanda, M.Ed., CEFM Director of Facilities **Pemberton Township Schools** 125B Trenton Road Browns Mills, NJ 08015

Reference: Clearance Inspection and Testing 2nd Event

Pemberton Township - Samuel T Busansky School - Room 109

16 Scrapetown Rd, Pemberton, NJ 08068

TTI Project Number 24-1322

Dear Mr. Krisanda:

Thank you for selecting TTI Environmental, Inc. (TTI) for your environmental needs. This correspondence is being forwarded to provide the findings and results of the recent clearance inspection conducted at the above referenced property and room.

1.0 Background

TTI arrived on site on September 13, 2024 to conduct an initial inspection of Room 109 and was provided with general information on the area of concern. Based on the information provided and TTI's site inspection results TTI recommended that an in-depth cleaning of Room 109 and contents be conducted to remove and reduce the surface mold within the room back to a normal condition. The school staff performed the room cleaning, and a clearance inspection and testing was performed by TTI on September 20, 2024. The clearance air sample failed, and the room was not deep cleaned. TTI recommended that the room remain closed and that additional cleaning be conducted to return the space back to a normal condition. The district hired AllRisk Property Damage Experts (AllRisk) to conduct the 2nd round of cleaning. AllRisk completed the cleaning of Room 109 on September 29, 2024. TTI arrived on site October 1, 2024 to conduct a reinspection which included visual and the collection of an air sample.

The onsite clearance inspection was conduct by the following personnel: Mr. Timothy Popp, Vice President of Consulting for TTI. In addition to the visual inspection, TTI collected one (1) air sample from inside the room and one from outside the building as a comparison sample.

Observations

The visual inspection of the building components and contents did not identify any visible mold growth. The dust level and cleanliness within Room 109 was very clean. The temperature level in the building was normal, and the relative humidity was below 60%.

Table 1.0 Indoor Direct Reading Parameter					
Room/Area	Temperature	Relative Humidity			
Room 109	71.9	44.8			
Outside	70.7	67.5			
Recommended Ranges	68-79	>30 & <60%			

2.0 Sampling Methods and Sample Locations

A fungal spore trap air sample was collected from within Room 109 and the outside as a comparison sample. All laboratory analysis was performed by EMSL Analytical Inc. Cinnaminson, New Jersey, a certified AIHA NVLAP Laboratory. The analytical test report is attached in Appendix A. A description of sample methodology is described below:



Fungal Spore Trap Air Samples

Fungal spore trap air samples are collected by using an Air-O-CellTM cassette attached to a high-volume vacuum pump. A volume of air is drawn through the cassette and the contents of the air are deposited upon a specially treated glass slide, which is then analyzed by a mycologist who identifies fungal types and quantity. Fungal spore trap air samples measure both viable and non-viable fungal spores as well as fungal parts and fragments. Fungal spore trap air samples are collected from the outdoors to be used as a comparison to the inside samples. There are currently no standards of reference ranges for acceptable levels of airborne microorganisms when interpreting fungal air sample results, just guidance. It is generally accepted that indoor airborne fungal concentrations should be approximately the same as found outdoors and display similar genus distribution. Elevated indoor airborne fungal concentrations as compared to outdoor concentrations are often an indicator of a fungal amplification source due to a moisture condition.

Table 1.0: Fungal Spore Trap Air Sample Results Summary									
Total Airborne			Dominant Fungi Detected			Fungal Genera of Concern Detected			
Sample Number	Location	Fungal Concentration (fs per m ³)	Fungal Species and/or Fungal Parts		Percent of Total Sample	Fungal Species	Concentration (fs per m³)	Percent of Total Sample	
A-1	Room 109	710	Aspergillus/ Penicillium	570	80.3	Aspergillus/ Penicillium	570	80.3	
A-2	Outside	16,850	Basidiospores	8,640	51.3	Aspergillus/ Penicillium	1,200	7.1	
fs/m ³ : fungal structures per cubic meter ND: Non-detected									

The total airborne fungal concentration level of the sample collected inside Room 109 was lower than the outside sample. The individual mold species Aspergillus/Penicillium was detected at a level below the outside sample and was less than 800 fs per m³.

Conclusions & Recommendations

- The second cleaning event was more in-depth and successful in removing the surface dust and settled spores from the room.
- The humidity level in the room was below 60%.
- Based on the clearance inspection and the results from the air sample Room 109 has been return to a normal
 condition.
- TTI recommends that no further investigation is required at this time and Room 109 can be re-occupied.

We appreciate the opportunity for allowing TTI to provide you with environmental consulting services. If you should have any questions, please feel free to contact us at any time.

Sincerely,

TTI ENVIRONMENTAL, INC.

Timothy Popp

Vice President of Consulting

Appendix A:
Analytical Test Reports



Attention: Tim Popp

EMSL Order: 372416837 Customer ID: TTIE54 Customer PO: 039825

Project ID:

Phone: (856) 840-8800

Fax: (856) 840-8815

Collected Date: 10/01/2024

Received Date: 10/01/2024 02:50 PM

Analyzed Date: 10/02/2024

Project: 24-1322 Pemberton Busansky School

TTI Environmental Inc. 1253 North Church Street

Moorestown, NJ 08057

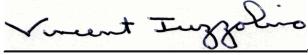
Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L):	372416837-0001 A-1 75			ulates by Optical Microscopy (Methods MICRO 372416837-0002 A-2 75					
Sample Location:		Room 109		Exterior					
Spore Types	Raw Count†	Count/m³	% of Total	Raw Count†	Count/m³	% of Total	-	_	-
Alternaria (Ulocladium)	-	-	-	1	10*	0.1		-	-
Ascospores	-	-	-	2	90	0.5			
Aspergillus/Penicillium++	13	570	80.3	28	1200	7.1			
Basidiospores	3	100	14.1	108(198)	8640	51.3			
Bipolaris++	-	-	-	-	-	-			
Chaetomium++	-	-	-	-	-	-			
Cladosporium	-	-	-	109	4760	28.2			
Curvularia	-	-	-	-	-	-			
Epicoccum	-	-	-	2	30*	0.2			
Fusarium++	-	-	-	1	40	0.2			
Ganoderma	-	-	-	3	100	0.6			
Myxomycetes++	-	-	-	2	90	0.5			
Pithomyces++	-	-	-	1	10*	0.1			
Rust	1	40	5.6	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-	-			
Zygomycetes	-	-	-	-	-	-			
Paecilomyces++	-	-	-	42	1800	10.7			
Pyricularia	-	-	-	1	40	0.2			
Torula++	-	-	-	1	40	0.2			
Total Fungi	17	710	100	391	16850	100			
Hyphal Fragment	-	-	-	-	-	-			
Insect Fragment	-	-	-	-	-	-			
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-			
Analyt. Sensitivity 300x	-	13*	-	-	13*	-			
Skin Fragments (1-4)	-	2	-	-	1	-			
Fibrous Particulate (1-4)	-	1	-	-	1	-			
Background (1-5)	-	1	-	-	1	-			

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

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

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



Vincent luzzolino, M.S., Laboratory Manager or other Approved Signatory

EMSL Analytical, Inc. 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 Analytical, Inc. EMSL Analytical, Inc. 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. Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded). 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 >= 100 are extrapolated based on the percentage analyzed.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AlHA LAP, LLC-EMLAP Accredited #100194

Initial report from: 10/02/2024 03:29 PM

OrderID: 372416837

MEIL

EMSL Chain of Custody - One Chain

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL Order Number / Lap Use Only

EMSL ANALYTICAL, INC. 37241	PHONE: (800) 220-3675 EMAIL: CinnAsblab@EMSL.com
TESTING LABS - PRODUCTS - TRAINING	Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.
Customer ID:	Billing ID:
Company Name: TTI Environmental Inc	Same Company Name: Same
E Contact Name: Tim Popp	Billing Contact: Street Address:
Street Address: 1253 North Church St	Street Address:
City, State, Zip: Moorestown NJ 08057	City, State, Zip: Country:
Phone: 609-304-3968	City, State, Zip: Chy, State, Zip: Country:
Email(s) for Report: timp@ttienv.com	Email(s) for Invoice:
	Information
Project 24-1322 Pemberton Busansky	School Purchase 039825
EMSL LIMS Project ID:	US State where State of Connecticut (CT) must select project location.
(If applicable, EMSL will provide)	samples collected: Commercial (Taxable) Residential (Non-Taxable)
Sampled By	No. of Sample in Shipmen
	nd-Time (TAT)
3 Hour 24 Hour 32 Hour 48	Hour 72 Hour 96 Hour 1 Week 2 Week
Please confiaheatHor large projects and/or turnaround times 6 Hours or Less. ** ASE	T32 Hour TAT available for select tests only, samples must be submitted by 11:30am, BESTOS
	M - Air TEM - Settled Dust int 763 Microvac - ASTM D5755
☐ NIOSH 7400 ☐ AHERA 40 CFR, Par ☐ NIOSH 7400 w/ 8hr, TWA ☐ NIOSH 7402	Microvac - ASTM D5755 Wipe - ASTM D6480
PLM - Bulk (reporting limit) EPA Level II	Qualitative via Filtration Prep 😸
PLM EPA 600/R-93/116 (<1%)	Qualitative via Drop Mount Prep
	1-Bulk
POINT COUNT TEM EPA NOB 400 (<0.25%) 1,000 (<0.1%) NYS NOB 198.4 (No	Soil - Rock - Vermiculite (reporting limit): nn-Friable-NY) PLM EPA 600/R-93/116 with milling prep 25%
	/116 w Milling Prep (0.1%) PLM EPA 600/R-93/116 with milling prep (0.1%)
	t (please specify) TEM EPA 600/R-93/116 with milling prep (\$0.1%)
NIOSH 9002 (<1%)	TEM Qualitative via Filtration Prepu
NYS 198.1 (Friable - NY)	TEM Qualitative via Drop Mount Prep
NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V) *Please call with you	ur project-specific requirements.
Positive Stop - Clearly Identified Homogeneous Areas (HA)	Filter Pore Size (Air Samples) 0.8um 0.45um
LEAD (PB)	MAT-SCI (TAT End of Business Day)
Flame Atomic Absoprtion ICP	
Chips SW846-7000B or AOAC 974.2	(116 w Milling Prep (0.1%) Full Particle ID (environmental dust) Basic Mateiral ID (solids)
Air NIOSH 7082	Advanced Material ID
Wastewater SM3111B or SW846-7000B/7420	Physical Testing (Tensile, Compression)
ASTM Wipe SW846-7000B/7420	Combustion-By-Products (Soot, Char, Etc.)
non-ASTM Wipe SW846-7000B/7420 TCLP SW846-1311/ 7420/ SM3111B	X-Ray Flourescence (elem. Analysis) X-Ray Diffraction (Crystalline Part.)
MICROBIOLOGY	MMVF's (Fibrous Glass, RCF's)
Swab and Bulk Samples Air Samples	Particle Size (Sieve, Microscopy, Laser)
Mold & Fungi - Direct Examination Mold & Fungi (Spore Trap)	Combustible Dust
Mold & Fungi Culture (Genus Only) Mold & Fungi Culture (Genus Only)	
Mold & Fungi Culture (Genus & Species) Mold & Fungi Culture (Genus & Species)	
Bacterial Count & ID (Up to 3 Types) Bacterial Count & ID (Up to 3 Types) Bacterial Count & ID (Up to 5 Types) Bacterial Count & ID (Up to 5 Types)	
Sewage Screen DNA & PCR Testing: (See Ana	
Sewage Screen (P/A) Test Code:	Silica Analysis: All Species
Sewage Screen (Membrane Filtration)	Silica Analysis - Single Species
Water Samples Legionella: (See Analytical Guid	
Total Coliform & E. Coli (P/A, SM 9223B) Test Code:	HVAC Efficiency Carbon Black
Heterotrophic Plate Count (PP, SM 9251B) Fecal Coliform (SM 9222D) P/A= Presence/Absence PP= 6	Airborn Oil Mint
P/A= Presence/Absence, PP= F	Radon Testing: Call for Kit and COC
Other Test (please specify)	
	ple Specifications, Processing Methods, Limits of Detection, etc.)
Special methodicina andre regulatory requirements (camp	
Method of Chipment:	Sample Condition Upon Receipt:
Relinquished by: Date Time: 17	Received by: Date/Time Date/Time
Relinquished by Date/Time:	Received by: Date/Time

Controlled Document - COC-17 One Chain EMSL R5 2/26/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.) EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Page 1 of Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

2

OrderID: 372416837

EMSL ANALYTICAL, INC.

EMSL Chain of Custody - One Chain

Additional Pages of the Chain of Custody are only necessary if needed for additional

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

PHONE: (800) 220-3675 EMAIL: CinnAsblab@EMSL.com

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) 24-1372 Pemberton Busansky School Po#039825							
Sample Number	Sample Location / Description			Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)		
A-1	Room 10 Exterior	9		754	10 / 24 /258		
A-2	Exterior	~		1	121		
ě							
					2024 2024		
					NAM OCT		
					- NSW		
					D X		
					2:51		
Method of Shipment:			Sample Co	ondition Upon Receipt:			
Relinquished by:		Date/Time:	Received to	by:	Date/Time		
Relinquished by:	. EMSI P5 2/26/2024	Date/Time:	Received t	by:	Date/Time		
Junio uned Document - COC-17 One Chain	EMOL NO 2/20/2021						

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)