www.ttienv.com o 856-840-8800 f 856-840-8815

October 15, 2021

Mr. Lou Crisci Sr. Vice President Director of Operations AllRisk Property Damage Experts 801 E Clements Bridge Rd. Runnemede, NJ 08078

Reference: Initial Mold Inspection and Testing.

Stafford Branch Library

29 N Main St, Manahawkin, NJ 08050

TTI Project Number 21-1596

Dear Mr. Crisci:

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 initial mold inspection conducted at the above referenced property.

1.0 Background

TTI arrived on site on October 7, 2021 and was provided general information on the areas of concern. The property is a branch Library owned and operated by the County of Ocean (Ocean County) and is located at 29 N. Main Street in Manahawkin, NJ. The mold inspection was conducted during normal working hours and was performed throughout the facility. According to information provided to TTI, water enters the lower level during heavy rainstorms and is quickly vacuumed up by an outside vendor. TTI's inspection was performed using a high lumen flashlight, humidity/temperature meter, and a thermal camera.

TTI collected a total of 14 air samples from inside the building and one (1) air sample from outside the building as a comparison sample. In addition to the air samples, TTI collected four (4) direct read swabs samples from various building components with possible mold growth. The onsite assessment was conduct by the following personnel: Mr. James A. Guilardi, Certified Microbial Consultant (CMC) for TTI.

Observations

Lower Level

The lower level is constructed of sheetrock walls/ block walls, lay-in ceiling tiles over a concrete ceiling and carpeting over concrete floor. Floor tile was observed in the Storage Room. The lower level houses Library Offices, Meeting Room, Storage Rooms, Computer Lab, Electrical, Staff Lounge and Mechanical Rooms. The visual inspection revealed possible mold growth on the HVAC diffusers and adjacent ceiling tiles, concrete ceiling expansion joints and block walls above ceiling tiles adjacent to HVAC duct work. Water stained ceiling tiles and water stained carpeting was observed throughout the lower level. Temperature and relative humidity readings were within acceptable standards.

Upper Level

The upper level is constructed of a combination of sheetrock walls over block walls, lay-in ceiling tiles over a sheetrock ceiling and carpeting over concrete floor. The upper level houses Library Offices and Public Access/Reading Areas. The visual inspection revealed possible mold growth/dirt on the HVAC diffusers and adjacent ceiling tiles. A water diverter system which drained into a trash can was observed near the front circulation desk. TTI was informed this was created due to a roof leak which has since been repaired. Water stained ceiling tiles were observed throughout the upper level. Temperature and relative humidity readings were within acceptable standards.



Table 1.0	Indoor Direct Readi	ing Parameter	
Room/Area	Temperature	Relative Humidity	CO
Lower Level Staff Lounge	71.1	54.0	NA
Meeting Room	73.3	51.2	NA
Lower Level Staff Offices	71.3	54.4	NA
Librarians Office	71.4	53.7	NA
Computer Lab	72.0	54.2	NA
Lower Level Storage Room	71.1	55.0	NA
Lower Level Hallway/Foyer	71.0	55.1	NA
Upper Level- Main Public Reading Area	70.1	55.8	NA
Supervisor's Office	72.1	56.3	NA
Children's Area	67.3	58	NA
Recommended Ranges	68-79	>30 & <60%	50 ppm

2.0 Sampling Methods and Sample Locations

Fungal spore trap air samples were collected from throughout the building. A fungal spore trap air sample was also collected from the exterior as a comparison sample. All laboratory analysis was performed by EMSL Analytical Inc. Cinnaminson, New Jersey, a certified AIHA NVLAP Laboratory. The analytical test reports are 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. It is generally accepted that indoor airborne fungal concentrations should be approximately the same or below those 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 2.0: Fungal Spore Trap Air Sample Results Summary											
		Total Airborne	Domina	ant Fungi Detec	ted	Fungal Gen	era of Concern l	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)	% of Total Sample				
A-1	Outside	108,200	Basidiospores	105,000	97	Aspergillus Penicillium	100	<1				
A-2	Break Room	610	Basidiospores	400	66	Aspergillus Penicillium	200	33				
A-3	Meeting Room	1,930	Basidiospores	1,500	78	Aspergillus Penicillium	200	10				
A-4	Staff Office	870	Basidiospores	400	46	Aspergillus Penicillium	200	23				
A-5	Librarian's Office	1,510	Aspergillus Penicillium	620	41	Aspergillus Penicillium	570	41				
A-6	Computer Lab	1,140	Aspergillus Penicillium	570	50	Aspergillus Penicillium	620	50				
A-7	Storage	370	Basidiospores	100	27	Aspergillus Penicillium	100	27				
A-8	Elect. Room	460	Basidiospores	300	65	Aspergillus Penicillium	40	9				



	Table 2.0: Fungal Spore Trap Air Sample Results Summary (continued)												
		Total Airborne	Domina	ant Fungi Detec	ted	Fungal Gen	era of Concern I	Detected					
Sample Number	Location	Fungal Concentration (fs per m ³)	Fungal Species and/or Fungal Parts Concentration Total Sample		Fungal Species	Concentration (fs per m³)	% of Total Sample						
A-9	LL H/W & Foyer	3.080	Aspergillus Penicillium	2,000	65	Aspergillus Penicillium	2,000	65					
A-10	Upper Level Front Desk	620	Basidiospores	570	92	Aspergillus Penicillium	40	7					
A-11	Teen Zone	180	Aspergillus Penicillium	100	56	Aspergillus Penicillium	100	56					
A-12	Teresa's Office	1,240	Basidiospores	750	61	Aspergillus Penicillium	400	32					
A-13	Main Office	870	Basidiospores	530	61	Aspergillus Penicillium	300	35					
A-14	Children's area	590	Basidiospores	200	34	Aspergillus Penicillium	40	7					
A-15	Biography Area	100	Basidiospores	10	50	Basidiospores	10	50					

The total airborne fungal concentration level of the samples collected inside the building were lower than the outside sample and were within acceptable industry standards, with the exception of sample A-9. Sample A-9 was collected from the lower level hallway and foyer area and was slightly elevated with Aspergillus/Penicillium mold spores.

Fungal Swab Samples

Swab samples are collected using a sterile swab, which is wiped on one (1) square inch of a surface, to collect suspected fungi. The sample is then sent to an accredited microbiology lab, wet mounted and analyzed by an experienced mycologist. Swab samples are collected to confirm visual suspect mold, concentration, and species to assist in the mitigation of potential mold issues.

		Table 2.0: Fungal Swa	ab Sample Results Summary							
Sample ID	Date	Sample Location	Fungal ID	Category	Comment					
Swab-16		Break Room - Ceiling Tile by HVAC Diffuser	Aspergillus/Penicillium	High	Mold Growth at High Levels.					
Swab-17	10/7/2021	Break Room – Sheetrock Wall	ND	ND	ND					
Swab-18		Staff Office -Block	Cladosporium	High	Mald Carrell at III als I amile					
Swab-18		Wall/Ceiling Expansion Joint	Aspergillus/Penicillium	Medium	Mold Growth at High Levels					
Swab-19	Swab-19 Lower Level Storage Aspergillus/Penicillium Low Mold Growth at Low Lev									
Category: Count/per an	Category: Count/per area analyzed; ND: Not detected Rare: 1-10, Low: 11 - 100, Medium: 101 - 1000, High: >1000									

The swab samples confirmed mold growth at high levels on ceiling tiles near HVAC diffusers and block wall/ceiling expansion joints above drop ceiling in lower level. The swab samples also confirmed mold growth at low levels on HVAC diffusers.





Conclusions & Recommendations

- Clean all mold growth on concrete expansion joint/block walls in basement and replace all dirty ceiling tiles
 adjacent to HVAC diffusers. Replace all water stained ceiling tiles. Perform a general clean of the lower
 level hallway/foyer area. All work should be performed by a professional remediation contractor in general
 accordance with the Institute of Inspection, Cleaning & Restoration Certification (IICRC) S500.
- Clean all diffusers and, at arm's length, all HVAC branches.
- To reduce the possibility of mold growth, it is important to keep moisture from penetrating the building envelope and to correct all dew points which create moisture impact to building components. Any moisture that does penetrate the area should be eliminated promptly to reduce the potential for microbial growth.
- Document all indoor air quality complaints including room number, reason for the complaint and symptoms. Documented complaints and response actions should be maintained in the building's indoor air quality plan.

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.

James A. Guilardi

Senior Project Manager, CMC

James A. Men Der S.



Appendix A:
Analytical Test Reports

OrderID: 372117181



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North JUNEU IVEU

Cinnaminson, NJ 0807751 PHONE: 1-800-220-3675150N, NJ EMAIL: c@emsl.com

372117187

							ort-To leave this section b	lank. Third-party billing requires wri	itten authorization.
	Customer ID:				Billing II	J:		21 OCT	-7 PM 3:
ion	Company Name: T	ΓI Environmental, Inc.		_	Compa	ny Name: TTI	Environmen	ital Inc.	
mati	Contact Name: Ja	mes Guilardi		ati o	Billing C	contact: Jan	nes Guilardi	Market Ma	
Customer Information	Ctract Address:	253 N. Church Street		Information	Street A	ddana	3 N. Church	Stroot	
erl	City State Zin:		08057 Country	c	City, St	eto 7in:			Country: US
tom	IVI	oorestown NJ	08057 Country	US E	Phone:	IVIO	orestown	NJ 08057	, 08
Cus	10	6093141683		ē			93141683		
	Email(s) for Report:	mg@ttienv.com			Email(s) for Invoice:			
				Project Inform	ation				
Proje	ct 04.4500.00	66 1111						chase 000 4 (/	2
Nam	e/No: 21-1596 St	afford Library					Ord	er 03366°	1
EMS	LIMS Project ID:		State	Zip Code			State of Conne	ecticut (CT) must select pro	ject location:
If appl provide	LIMS Project ID: icable, EMSL will		Samples NJ Collected:	Samples Collected			Comm	ercial (Taxable) Resid	dential (Non-taxable)
Sam	oled By Name:	Cuilordi	Sampled By Signatu	ure:	1	1		No. of So in Shipm	
	JIII	n Guilardi	my	Du	lera	h		in Graphi	lon.
	Sterile, S	Sodium Thiosulfate Preserved Bottle		Used in Source					
		Public Water Supply San					to DOH if required	d by State. ble for select tests only, samples must	1 ha h Ward h 14-20
	3 Hour	6 Hour Turn-Around-Ti	32* Hour	48 Hour	s and/or turn	72 Hour	96 Hour	1 Week	2 Week
				OBIOLOGY TE	ST CODE		sorrious	T WOOK	LIVEER
MOO	1 Air-O-Cell	M174 MoldSnap	M012 Pseudomona				M115 Sewage	Screen - Water (P/A***)	
	Micro 5	M032 Allergenco-D	M024 Pseudomona		CENTRAL PROPERTY.			Screen - Water (MPN**)	1.00
_	Fungal Direct Examina		M015 Heterotrophic					Screen - Swab (P/A***)	
M169	Pollen ID & Enumerati	on	M017 Total Coliforn	n & E. Coli (Col	lilert P/A*	**)		Screen - Swab (MFT*)	
M280	Dust Characterization	Level-1	M018 Total Coliforn	n & E. Coli (MF	T*)		M730 Methicil	lin-resistant Staph, aureus	(MRSA)
M28	Dust Characterization	Level-2	M114 Total Coliforn			(Colilert MPN**)	M031 Rapid-g	rowing non-TB Mycobacter	ia Detection &
M00	Viable Fungi-Air Samp	eles (Genus ID & Count)	M019 Fecal Coliforn	m (MFT*)			Enumeration		
M00	Viable Fungi-Air Samp	eles (Includes Penicillum, Aspergillus,	M020 Fecal Strepto	coccus (MFT*)	1		M014 Endotox	dn Analysis	
Clad	osporium, Stachybotrys	Species ID & Count)	M029 Enterococci ((MFT*)			M044 Group A	Allergen (Cat, Dog, Cockroa	ich, Dust Mite)
M007	Culturable Fungi-Surfa	ice Samples (Genus ID & Count)	M129 Enterococci ((Enterolert P/A*	**)		M095 Bactero	ides	1
		ice Samples (Includes Penicillum,	M180 Real Time qF	PCR-ERMI 36 P	anel		Other - See A	nalytical Price Guide for Tes	st Code
Aspe	rgillus, Cladosporium, S	Stachybotrys Species ID & Count)	M025 Sewage Scre	en - Water (MF	T*)		Legionella Ar	nalysis Please use EMSL L	egionella COC
M009	Bacteria Culture Gram	Stain & Count	*MFT= Membrane F	Filtration Techni	que				
M010	Bacteria Count & ID -	3 Most Prominent	**MPN = Most Prob	able Number					
M011	Bacteria Count & ID -	5 Most Prominent	***P/A = Presence/	Absence					
	Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Potable (O Wate	nly for	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only)
E	ample: Sample 1	Kitchen	Water	Potab	le	M017	1,000 ml	1/1/2021 3:30pm	
		< 00 0N/	100						
_		See pit	50						
		Special Instructions and/or R	legulatory Requirement	s (Sample Spec	cifications	Processing Meth	nods, Limits of Deter	ction, etc.)	
Bill	To: TTI Environm	ental Inc., 1253 N. Church S	Street, Moorestow	vn, NJ, 080	57, US		,	(19)
Atte	ention: James Gu	ilardi Phone: 16093141683 I	Email: jimg@ttier	nv.com Pur	chase	Order:		. 1	
Meth	od of Shipment:				Sample	Condition Upon F	Receipt:		
Relin	guished by:	. 1	Date/Time:	12-	Receive	ed by:		Date/Time	71. 2.4
	Am &	weah	101	1/0021	100000000000000000000000000000000000000	05	(WD)	10	111 5.4
Relin	quished by:		Date/Time:		Receive	ed by:		Date/Time	
Contro	lled Document - COC-34 Micro	R13 03/02/2021	ACRES TO SUSCE	ONIC SIGNATURE	DE /D1	okina Laaa	signing this Chair .	Custody document by alexi-	sie sieneture \
			AGREE TO ELECTR	ONIC SIGNATU	KE (By ch	ecking, I consent to	signing this Chain of	Custody document by electron	ic 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, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

2



Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North

Cinaminson, NJ 08077

EMSL Order Number / Lab Use Only CINNELIGIDE 1-800-220-3675 EMAIL: Commission

BillTo: TTI En	Special Instructions and/or Regivironmental Inc., 1253 Ness Guilardi Phone: 160	N. Church	Jucci, Moon	CStOWII, IV	0, 00001, 1		1
Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only)
A-0	outside	Ain	N/4	moo	15 L	10/1/203,	
A-2	Break from	AIR		1	j	1	
A-3	meeting em.	AIR					
A-4	STAFF OFFICE	Air					
A-5		MAIR					
A-6	Computer LAB	Air					
A-7	laver level STURAPE	2 Air					
A-B	Elect. ROOM	Air					
A-9	HW + Foger	AIR					
A-10	upper level by Desic	Air					
A-11	upper level - Teen	AIR					
A-12	Heresa's office	Air					
A-13	main office	Air					
A-14	Children's Area	AIR					
A-15	Biography	Air					
SWAB-16	Certify tile - Blade	Room Sul	9ns	moy 1	NA		
SUNS-17					1		
SWMB-18	WALL-Blegic ROM STAPF OFFICE COXXETE CAULL	SWAB					
SUBB-A	STURAGE DIFFUSET	Sum		1	1		
Method of Shipment:				le Condition Upon	Receipt:	In . —	
Relinquished by:	helids	Date/Time:	1/21	ved by:		Date/Time Date/Time	
Relinquished by:	D42 2/02/024	Date/Time:	Recei	ved by.		Date/Time	

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

2



EMSL Order: 372117181 Customer ID: TTIE54 Customer PO: 033669

Project ID:

Phone: (856) 840-8800

Fax: (856) 840-8815

Collected Date:

Received Date: 10/07/2021 03:40 PM

Analyzed Date: 10/09/2021

Project: 21-1596 Stafford Library

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):	3	72117181-0001 A-1 75		3	72117181-0002 A-2 75		372117181-0003 A-3 75			
Sample Location:		Outside			Break Room		Meeting Room			
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M ³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	-	-	-	-	- '	-	-	
Ascospores	35	1500	1.4	-	-	-	1	40	2.1	
Aspergillus/Penicillium	3	100	0.1	5	200	32.8	5	200	10.4	
Basidiospores	2380	105000	97	8	400	65.6	35	1500	77.7	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium++	-	-	-	-	-	-	-	-	-	
Cladosporium	6	300	0.3	-	-	-	2	90	4.7	
Curvularia	-	-	-	-	-	-	1	40	2.1	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium++	-	-	-	-	-	-	-	-	-	
Ganoderma	23	1000	0.9	-	-	-	-	-	-	
Myxomycetes++	4	200	0.2	-	-	-	1	40	2.1	
Pithomyces++	1*	10*	0	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	1*	10*	0.5	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	2	90	0.1	-	-	-	1*	10*	0.5	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Acremonium++	-	-	-	-	-	-	-	-	-	
Blakeslea/Choanephora	-	-	-	-	-	-	-	-	-	
Pestalotia++	-	-	-	1*	10*	1.6	-	-	-	
Total Fungi	2454	108200	100	14	610	100	47	1930	100	
Hyphal Fragment	-	-	-	-	-	-	2	90	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	1	40	-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	1	-	-	2	-	-	2	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	1	-	-	2	-	

++ 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.

Preliminary Report

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

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.

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



EMSL Order: 372117181 Customer ID: TTIE54 Customer PO: 033669

Project ID:

Phone: (856) 840-8800

Fax: (856) 840-8815

Collected Date:

Received Date: 10/07/2021 03:40 PM

Analyzed Date: 10/09/2021

Project: 21-1596 Stafford Library

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):	3	72117181-0004 A-4 75		3	72117181-0005 A-5 75		3	72117181-0006 A-6 75		
Sample Location:		Staff Office		Librarian Office			Computer Lab			
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	· -	-	-	-	-	-	-	
Ascospores	1	40	4.4	-	-	-	-	-	-	
Aspergillus/Penicillium	5	200	22	14	620	41.1	13	570	50	
Basidiospores	10	440	48.4	12	530	35.1	10	440	38.6	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium++	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	2	90	6	2	90	7.9	
Curvularia	1*	10*	1.1	2	90	6	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium++	-	-	-	-	-	-	-	-	-	
Ganoderma	1	40	4.4	-	-	-	-	-	-	
Myxomycetes++	1	40	4.4	3*	40*	2.6	-	-	-	
Pithomyces++	2	90	9.9	3	100	6.6	-	-	-	
Rust	1	40	4.4	3*	40*	2.6	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	1	40	3.5	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Acremonium++	-	-	-	-	-	-	-	-	-	
Blakeslea/Choanephora	1*	10*	1.1	-	-	-	-	-	-	
Pestalotia++	-	-	-	-	-	-	-	-	-	
Total Fungi	23	910	100	39	1510	100	26	1140	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	2	-	-	2	-	-	2	-	

++ 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.

Preliminary Report

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

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.

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



EMSL Order: 372117181 Customer ID: TTIE54 Customer PO: 033669

Project ID:

Phone: (856) 840-8800

Fax: (856) 840-8815

Collected Date:

Received Date: 10/07/2021 03:40 PM

Analyzed Date: 10/09/2021

Project: 21-1596 Stafford Library

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):	3	72117181-0007 A-7 75		372117181-0008 A-8 75			31	72117181-0009 A-9 75		
Sample Location:	Lov	er Level Storag	je	Elect. Room			Lower Level H/W and Foyer			
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	-	-	-	-	- '	-	-	
Ascospores	-	-	-	-	-	-	-	-	-	
Aspergillus/Penicillium	3	100	27	1	40	8.7	46	2000	64.9	
Basidiospores	3	100	27	7	300	65.2	18	800	26	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium++	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	1	40	8.7	-	-	-	
Curvularia	1	40	10.8	-	-	-	3	100	3.2	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium++	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	2	90	24.3	-	-	-	1*	10*	0.3	
Pithomyces++	1*	10*	2.7	-	-	-	2*	30*	1	
Rust	2*	30*	8.1	1	40	8.7	3	100	3.2	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	1	40	1.3	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Acremonium++	-	-	-	-	-	-	-	-	-	
Blakeslea/Choanephora	-	-	-	-	-	-	-	-	-	
Pestalotia++	-	-	-	1	40	8.7	-	-	-	
Total Fungi	12	370	100	11	460	100	74	3080	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	1	40	-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	2	-	-	2	-	-	3	-	

++ 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.

Preliminary Report

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

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.

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



EMSL Order: 372117181 Customer ID: TTIE54 Customer PO: 033669

Project ID:

Phone: (856) 840-8800

Fax: (856) 840-8815

Collected Date:

Received Date: 10/07/2021 03:40 PM

Analyzed Date: 10/09/2021

Project: 21-1596 Stafford Library

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):	3:	72117181-0010 A-10 75		372117181-0011 A-11 75			372117181-0012 A-12 75			
Sample Location:	Upp	er Level by Des	sk	Upper	Level - Teen R	oom	Theresa's Office			
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	-	-	-	-	- '	-	-	
Ascospores	-	-	-	-	-	-	-	-	-	
Aspergillus/Penicillium	1	40	6.5	3	100	55.6	8	400	32.3	
Basidiospores	13	570	91.9	1	40	22.2	17	750	60.5	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium++	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	-	-	-	-	-	-	
Curvularia	-	-	-	-	-	-	1*	10*	0.8	
Epicoccum	1*	10*	1.6	-	-	-	-	-	-	
Fusarium++	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	3*	40*	22.2	1	40	3.2	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	1	40	3.2	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Acremonium++	-	-	-	-	-	-	-	-	-	
Blakeslea/Choanephora	-	-	-	-	-	-	-	-	-	
Pestalotia++	-	-	-	-	-	-	-	-	-	
Total Fungi	15	620	100	7	180	100	28	1240	100	
Hyphal Fragment	-	-	-	-	-	-	1	40	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	1*	10*	-	-	-	-	-		-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	3	-	-	2	-	-	2	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	1	-	-	2	-	

++ 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.

Preliminary Report

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

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.

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



EMSL Order: 372117181 Customer ID: TTIE54 Customer PO: 033669

Project ID:

Phone: (856) 840-8800

Fax: (856) 840-8815

Collected Date:

Received Date: 10/07/2021 03:40 PM

Analyzed Date: 10/09/2021

Project: 21-1596 Stafford Library

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):	3	72117181-0013 A-13 75		372117181-0014 A-14 75			372117181-0015 A-15 75			
Sample Location:		Main Office		C	hildren's Area		Biography			
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	-	-	-	· -	-	-	-	
Ascospores	-	-	-	-	-	-	-	-	-	
Aspergillus/Penicillium	6	300	34.5	1	40	6.8	-	-	-	
Basidiospores	12	530	60.9	4	200	33.9	1*	10*	50	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium++	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	3*	40*	6.8	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium++	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	1*	10*	1.7	-	-	-	
Pithomyces++	1	40	4.6	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	1*	10*	50	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Acremonium++	-	-	-	6	300	50.8	-	-	-	
Blakeslea/Choanephora	-	-	-	-	-	-	-	-	-	
Pestalotia++	-	-	-	-	-	-	-	-	-	
Total Fungi	19	870	100	15	590	100	2	20	100	
Hyphal Fragment	-	-	-	-	-	-	1	40	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	2	-	-	2	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	2	-	-	1	-	-	1	-	

++ 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.

Preliminary Report

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

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.

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



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077 Tel/Fax: (800) 220-3675 / (856) 786-0262 http://www.EMSL.com / cinnmicrolab@emsl.com EMSL Order: 372117181 Customer ID: TTIE54 Customer PO: 033669

Project ID:

Phone: (856) 840-8800

Fax: (856) 840-8815

Attention: James Guilardi

TTI Environmental Inc.

1253 North Church Street C

Moorestown, NJ 08057

Collected Date: Received Date: 10/07/2021

Analyzed Date: 10/09/2021

Project: 21-1596 Stafford Library

Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method MICRO-SOP-200)

Lab Sample Number: Client Sample ID: Sample Location:	372117181-0016 Swab-16 Ceiling Tile - Break Room	372117181-0017 Swab-17 Wall - Break Room	372117181-0018 Swab-18 Staff Office Concrete Caulk	372117181-0019 Swab-19 Storage Diffuser	
Spore Types	Category	Category	Category	Category	-
Alternaria (Ulocladium)	-	-	-	-	
Ascospores	-	-	-	-	
Aspergillus/Penicillium	-	-	Medium	Low	
Basidiospores	-	-	-	Rare	
Bipolaris++	-	-	-	-	
Chaetomium++	-	-	-	-	
Cladosporium	-	-	High	Rare	
Curvularia	-	-	-	-	
Epicoccum	-	-	-	-	
Fusarium++	-	-	-	-	
Ganoderma	-	-	-	-	
Myxomycetes++	-	-	-	Rare	
Pithomyces++	-	-	-	-	
Rust	-	-	-	Rare	
Scopulariopsis/Microascus	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	
Unidentifiable Spores	-	-	-	-	
Zygomycetes	-	-	-	-	
Aspergillus	*High*	-	-	-	
Nigrospora	-	-	-	Rare	
Hyphal Fragment	-	-	Rare	-	
Insect Fragment	-	-	-	Rare	
Pollen	-	-	-	-	
Fibrous Particulate	-	Rare	-	Rare	

Category: Count/per area analyzed - Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

- Denotes Not Detected.

- ++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.
- = Sample contains fruiting structures and/or hyphae associated with the spores.

Preliminary Report

Actual final results may differ.

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.

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



Appendix B:
Photo Log

Stafford Branch Library 29 North Main Street Manahawkin, NJ

TTI Environmental, Inc. Project #21-1596 October 15, 2021

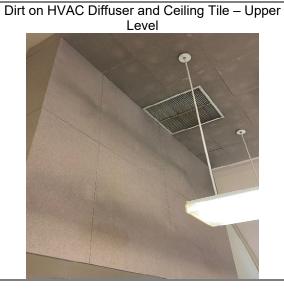












Project #21-1565

Stafford Branch Library 29 North Main Street Manahawkin, NJ

TTI Environmental, Inc. Project #21-1596 October 15, 2021

Break Room Lower Level Sheetrock No Mold Growth



Lower Level - Diffuser



Lower Level Staff Office – Mold on Block Wall



Mold on block wall/expansion joint – Lower Level

