

TTI Environmental Inc.

1253 North Church Street

Moorestown, NJ 08057

EMSL Order: 371919374 Customer ID: TTIE54 Customer PO: 028946

Project ID:

Phone: (856) 840-8800

Fax: (856) 840-8815

Collected: 08/29/2019 **Received:** 08/29/2019

Analyzed: 08/29/2019

Project: 19-645 / Pinelands HS

Attn: Tim Popp

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

		_					MICRO-SOP-201, ASTM D7391)			
Lab Sample Number:	371919374-0001 A-1 75			371919374-0002 A-2 75			371919374-0003 A-3 75			
Client Sample ID: Volume (L):										
Sample Location	A-147			A-151						
	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	
Spore Types Alternaria (Ulocladium)	- Raw Count	-	% OI TOTAL	Raw Count	- Countrill	% OI TOLAI		- Countrill	% Of Total	
Ascospores	-		-	-	-	-	-	-	_	
· ·	3	100	100	3	100	- 71.4	4	200	100	
Aspergillus/Penicillium	3	100	100				4	200	100	
Basidiospores	-	-	-	1	40	28.6	-	-	-	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	-	-	-	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Cercospora++	-	-	-	-	-	-	-	-	-	
Torula-like	-	-	-	-	-	-	-	-	-	
Total Fungi	3	100	100	4	140	100	4	200	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	-	-	1	-	-	2	-	
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.

Vouent Tuggoline

Vincent luzzolino, M.S., Laboratory Manager or other approved signatory

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

Samples received in good condition 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. 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 and use of test results are the responsibility of the client. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

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

Initial report from: 08/29/2019 18:53:45



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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):	371919374-0004 A-4 75 A-120			371919374-0005 A-5 75 Outside				•	
Sample Location									
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	-	-	-
Alternaria (Ulocladium)	-	-	-	1	40	0.3	-	-	-
Ascospores	-	-	-	21	920	6.1	-		-
Aspergillus/Penicillium	4	200	100	1	40	0.3	-		-
Basidiospores	-	-	-	157	6850	45.5	-		-
Bipolaris++	-	-	-	-	-	-	-		-
Chaetomium	-	-	-	-	-	-	-		-
Cladosporium	-	-	-	157	6850	45.5	-		-
Curvularia	-	-	-	1	40	0.3	-		-
Epicoccum	-	-	-	-	-	-	-		-
Fusarium	-	-	-	2	90	0.6	-		-
Ganoderma	-	-	-	2	90	0.6	-		-
Myxomycetes++	-	-	-	2	90	0.6	-		-
Pithomyces++	-	-	-	1*	10*	0.1	-		-
Rust	-	-	-	-	-	-	-		-
Scopulariopsis/Microascus	-	-	-	-	-	-	-		-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-		-
Unidentifiable Spores	-	-	-	-	-	-	-		-
Zygomycetes	-	-	-	-	-	-	-		-
Cercospora++	-	-	-	1	40	0.3	-		-
Torula-like	-	-	-	1*	10*	0.1	-		-
Total Fungi	4	200	100	347	15070	100	-		_
Hyphal Fragment	-	-	-	2	90	-	-		-
Insect Fragment	-	-	-	1	40	-	-		-
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	-	-		-

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

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