Appalachian W	ater and So	oil Analysis	, Inc.		
A A				A	<u>A</u> A
	m Pollution			2 1	V _S 1
<u>www.awsa.info</u> Dr. Eber	hard Essich	Mob	ile: 1-706-892	<u>2-6036</u>	
Project Name	2/20/18	2/20/18	2/20/18	772-224-	
Date				9266	
Time	11:00	11:20	11:40		
Location	Outside	Pastor's Office	Cloak Room Entrance		
<u>Analysis</u>	Count/m ³ Air-O-Cell Spore Count	Count/m³ Air-O-Cell Spore Count	Count/m³ Air-O-Cell Spore Count	Subtotal	Five most common molds in
FEE				\$525.00	
Alternaria-mtx Ascospores (Allergies: Aureobasidium,	0	0	0		homes
Accemonium) Aspergillus (ZT)/Penicillium (ZT) CUS-MTX (Allergies)	1590	0			Alternaria - water damage Aspergillus - most common - can cause infections Cladosporium - lower temperatures
Basidiospores	30300	300	350		
Bipolaris	0	0			Penicillium - strong musty odor
Chaetomium (ZT) MTX TXS WDI Cladosporium (CIO mtx) cladosporioides	0	0			Stachybotrys c mycotoxins
(Allergies)	840	0			Group 2: Common
Curvularia	0	0			mycoflora in homes
Epicoccum CUS Fusarium (ZT) CUS MTX WDI	20	0			<u> </u>
Ganoderma	20	0			Acremonium strictum
Myxomycetes	20	0			Alternaria alternata
Pithomyces	0	0			Aspergillus ustus
Rust	0	0			Cladosporium cladosporioides I
Scopulariopsis	0	0			Cladosporium cladosporioides II
Stachybotrys (ZT) TXS WDI	0	0			Cladosporium herbarum
Torula	0	0			Epicoccum nigrum
Ulocladium WDI	0	0	_		Mucor and Rhizopus group
Unidentifiable Spores	0	0			Penicillium chrysogenum
Zygomycetes (ex Mucor, Rhizopus-Human disease) (Allergies: Mucor)	0	0			Guidelines and
<u>Ascotricha</u>	0	0	0		recommendations for
Microascus	0	0	0		
Total Fungi	32840	330	350		airborne fungal
Hyphal Fragment	0	20			concentrations
Insect Fragment	0	0	_		values range from 50 to 10 000
Pollen Relative Humidity of Sampling Area	73%	55%			spores/m3. No international consensus exists . value for schools
Temperature oC/oF	22.6 oC/ 71.		20.2/68.4		currently 1000 spores/m3.
•	ZZ.U UU/ / T.	ZU/ 00	20.2/00.4		, , ,
Sheetrock / Wall Nearest Sampling Point Moisture level (S=Surface; D=Deep 3/4")	S = 0	0	0		
ZT=zero tolerance. These fungi may not be fibuildings. MTX = produce mycotoxins, many are cance TXS = under the right condtions these fungi substances adhering) that may be inhaled. WDI = Water Damage Indicators Airborne particles were captured on "spore traps microscopically for over 20 different genera and Any mold can cause allergic reactions but some a Basidiospores: These spores have been document.	r causing and can produce to "using calibra spores and pai tre worse and inted in cases o	d neurotoxic. oxic spores (ted pump. Sporticulates are i are labelled "a f hay fever, as	spores with to ore traps are e dentified and of illergies"	oxic xamined enumerated.	Group 1: Water damaged environments Aspergillus flavus Aspergillus fumigatus Aspergillus spp. Eurotium (A.) amstelodami Aureobasidium pullulans Chaetomium globosum
Basidiospores: These spores have been documer alveoltis, fatigue, runny nose, sneezing, stuffy no			thma, eczema,	, allergic	

Dutside Pastor's Office Room Entrance Count/m³ Count/m³ Count/m³ Air-O-Cell Spore Count Count Count Subtotal	Annalachian W	ater and So	nil Analysis	Inc							
Project Name 2/20/18 2/20/18 2/20/18 7/2-224- Date 2/20/18 2/20/18 2/20/18 7/2-224- 9286 Date 2/20/18 2/20/18 2/20/18 7/2-224- 9286 Dime 11:00 11:20 11:40 Outside Pastor's Cloak Office Room Entrance Countin Count	, tpparaoman w		Tinanyono	, 1110. 							
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Aspergillus: Aspergillus appears to be the most aggressive of these fungi, giving rise to infections also in patients with less severe airway disease, such as cystic fibrosis, asthma and chronic obstructive pulmonary disease. Most common indoor mold. Chaetonium: Mycotoxins produced: Bipoaroxin, Dihydrobipolaroxin, BMT-toxin, Cytochalasins Sterigmatocystin Health effects: Cause of mycotic keratitis, subcutaneous, sinusitis, peritonitis in patients on CAPD Curvularia: Mycotoxins produced: Belfedrin A, Curvularin, Curvularol Health effects: onychomycosis (fungal nail infections), ocular keratitis (corneal infection), sinusitis, mycetoma (chronic fungal infection, usually affecting the foot), pneumonia, endocarditis (inflammation of the endocardium, the inner lining of the heart), cerebral abscess, and disseminated infection (infection that enters the body at a specific point then spreads throughout, often affecting numerous organs); most cases are from immune compromised patients Myxomycetes: Health effects: Type 1 allergies (hay fever and asthma); fungal hypersensitivity reactions Pithomyces: Mycotoxins produced: Sporidesmin Health effects: allergen, irritant; produces hypersensitivity pneumonitis, dermatitis Rhizopus: Mycotoxins produced: Rhizonin A Health effects: the most common causative agent of zygomycosis (fungal infections), accounting for 60% of reported culture positive cases and 90% of rhinocerebral cases; may cause mucorosis in immune-compromised individuals. The sites of infection are the lung, nasal sinus, brain, eye and skin. Infection may have multiple sites. Alternaria: usually in buildings with water damage Cladosporium: lower temperature mold and present after water damaged carpeting and other fabrics. Allergic reactions, asthma and respiratory infections. Immunocompromised are especially susceptible. Penicillium: strong musty odor and often produces allergic reactions Stachybotrys chartarum: black mold producing toxic compounds = mycotoxins- can cause severe health problems Toru											
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