

#	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
#9	09 - West Attic	Alternaria	Very Heavy	Few
		Cladosporium	Heavy	Many
#10	10 - East Attic	Alternaria	Very Heavy	Many
		Cladosporium	Heavy	Few
#11	11 - West Bathroom	Cladosporium	Heavy	Many
#12	12 - East Bathroom	Cladosporium	Heavy	Many
#13	13 - Center Bath 1st Floor	Cladosporium	Very Heavy	Many
#14	14 - West Living Room 1st Floor	Cladosporium	Heavy	Many
#15	15 - North Crawl Space	Aspergillus Penicillium	Very Heavy	Many



Collected: Oct 1, 2020

Received: Oct 5, 2020

Reported: Oct 5, 2020

Project Analyst:
 Ramesh Poluri, PhD *P. Ramesh*

Date:
10 - 05 - 2020

Reviewed By:
 Steve Hayes, BSMT *Stephen N. Hayes*

Date:
10 - 05 - 2020

#16	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
16 - East Crawl Space		Aspergillus Penicillium	Very Heavy	Many



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Alternaria	Habitat: Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces.
	Effects: A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.

Ascospores	Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.
	Effects: Health affects are poorly studied, but many are likely to be allergenic.

Aspergillus Penicillium	Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.
	Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

Basidiospores	Habitat: A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.
	Effects: Common allergens and are also associated with hypersensitivity pneumonitis.

Cercospora	Habitat: Found on wood and decaying plant matter.
	Effects: Health effects are poorly studied.

Cladosporium	Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.
	Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.

Dactylosporium

Habitat: Found on wood and decaying plant matter.

Effects: Health effects are poorly studied.

Epicoccum

Habitat: It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles and is commonly found on wet drywall.

Effects: It is a common allergen. No cases of infection have been reported in humans.

Myxomycetes

Habitat: Found on decaying plant material and as a plant pathogen.

Effects: Some allergenic properties reported, but generally pose no health concerns to humans.

Pithomyces

Habitat: Common fungus isolated from soil, decaying plant material. Rarely found indoors.

Effects: Allergenic properties are poorly studied. No cases of infection in humans.

Torula

Habitat: Found in soil and on wood and grasses. Occasionally found growing indoors on cellulose containing materials.

Effects: A known allergen. No known cases of human infection.
