

Rob Egbert

PO Box 160231

Clearfield, UT 84016

Castleview Home Inspections

ANALYTICAL REPORT

Report Date: February 28, 2020

Phone: 801-548-4616

E-mail: castleviewinspections@gmail.co

m

Workorder: **34-2005731**

Project ID: 1015 W Castleton 022420

Purchase Order: 1015 W Castleton Project Manager: Meredith D. Edwards

Client Sample IDLab IDReceive DateAnalysis DateSampling Site3355499 Main Level (Kitchen)2005731001February 25, 2020February 28, 2020Indoors-Main Level3355500 Outdoors Back Patio2005731002February 25, 2020February 28, 2020Outdoors-Back Patio

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, 84123 USA | PHONE +1 801 266 7700 | FAX +1 801 268 9992 ALS GROUP USA, CORP. An ALS Limited Company

Environmental 🔈

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Page 1 of 5 Fri, 02/28/20 6:00 PM MBIOREP-V4.2



ANALYTICAL REPORT

Spore Trap Analysis

Workorder: 34-2005731

Client: Castleview Home Inspections

Project Manager: Meredith D. Edwards

Method: MC-AN-001 Matrix: Spore Trap

Air Volume (L)

Lab Sample ID	2005731001	2005731002
Client Sample ID	3355499 Main Level	3355500 Outdoors Back Patio
	(Kitchen)	150
Air Volume (L)	150	100

Fungal Spore Type	Spore Count	Spore Count/m³	Spore Count	Spore Count/m³
Alternaria				
Arthrinium				
Ascospores	2	13	4	27
Aspergillus/Penicillium Types	3	20	ŀ	
Basidiospores				
Bipolaris/Dreschlera				
Chaetomium				
Cladosporium	18	120		
Curvularia				
Epicoccum	1	7		
Fusarium				
Memnoniella				
Nigrospora				
Oidium/Peronospora				
Pithomyces				
Polythrincium				
Rhizopus/Mucor				
Smuts/Myxomycetes/ Periconia/Rusts	24	160	13	87
Spegazzinia				
Stachybotrys			-	-
Stemphylium				
Torula			-	
Ulocladium	3	20		
Unidentified Mitospores				
Total Fungal Spores	51	340	17	113

Other Particulate	Density Rating	Density Rating
Background Density	3+	2+
Pollen		
Fungal Fragments		
Skin Cells	2+	



ANALYTICAL REPORT

Spore Trap Analysis

Workorder: 34-2005731

Client: Castleview Home

Inspections

Project Manager: Meredith D. Edwards

Method Summary

Method: MC-AN-001 Matrix: Spore Trap

ALS Method MC-AN-001 is used to determine fungal spore counts using plain light microscopy under 630x magnification. Whenever possible, 100% of the sample trace is read. Where individual spore counts are high, a portion of the trace may be analyzed. The total spore count is then estimated using the following equation:

Spore Count * (14.4 / (Microscopic Field Diameter * T))

Where 14.4 is the trace length in mm, the Microscopic Field Diameter is the measured diameter of the field of view under 630X magnification in mm, and T is the number of traverses analyzed.

Sample Preparation

The analytical slide is removed from the spore trap cassette and mounted on a supportive glass slide, which is then prepared for viewing with the use of appropriate microbiological stains.

Density Rating

The density rating is based on a visual observation of the non-spore particulate that can mask the presence of fungal spores. Excessive non-spore particulate may make it difficult to produce accurate results. The following scale is used to assist in the interpretation of the reported results.

Density Rating	<u>Observation</u>	<u>Interpretation</u>
0	No particulate detected	May indicate improper sampling or blank
1+	Minimal particulate present	Analysis is optimal
2+	Minor particulate present	Fair analytical conditions
3+	Sufficient particulate present	May affect analysis accuracy
4+	Abundant particulate present	Analysis may not accurately reflect spore concentration
5+	Severely occluded	Sample is not acceptable for analysis

Sample Calculation

Fungal spore concentrations in spores/m3 are determined from the following equation:

 Total Spore Count		* 1000 0 / 0
Air Volume (L)	_	* 1000 = Spores/m3



Method: MC-AN-001 Matrix: Spore Trap

ANALYTICAL REPORT

Spore Trap Analysis

Workorder: 34-2005731

Client: Castleview Home

Inspections

Project Manager: Meredith D. Edwards

Potential Indoor Air Quality Molds and Fungi

Certain mold and fungi types found in high concentrations in indoor environments may indicate the presence of an indoor air quality concern. Some of these groups include but are not limited to:

Alternaria
Aspergillus/Penicillium
Chaetomium
Fusarium
Pithomyces
Stachybotrys/Memnoniella
Ulocladium

Common Outdoor Molds and Fungi

Certain molds commonly found outdoors can be found indoors in moderate amounts and may or may not necessarily indicate a potential indoor air quality concern. Some of these groups include but are not limited to:

Ascospores
Basidiospores
Bipolaris/Dreschlera
Cladosporium
Epicoccum
Nigrospora
Oidium/Peronospora
Smuts/Myxomycetes/Periconia/Rusts

Health Effects

Fungal spores are part of the natural environment and can be found both outdoors and indoors. Given the proper moisture level and nutrient source, indoor mold growth can occur on building materials and furnishings. Exposure to certain molds and fungi can cause health problems, such as allergic reactions and asthma attacks, in certain individuals. Susceptibility to the effects of mold and fungi may vary with age, genetic predisposition, impaired immune systems, and exposure level.

The results contained in this report are not intended to provide medical advice, and should not be used to determine the overall safety of an indoor living space. For more information, consult a health professional or your state or local health department.



ANALYTICAL REPORT

Spore Trap Analysis

Workorder: 34-2005731

Client: Castleview Home

Inspections

Project Manager: Meredith D. Edwards

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
MC-AN-001	/S/ Peter P. Steen	/S/ Brian S. Stites
WC-AIN-001	02/28/2020 15:02	02/28/2020 16:25

Laboratory Contact Information

ALS Environmental Phone: (801) 266-7700

960 W Levoy Drive Email: alslt.lab@ALSGlobal.com

Salt Lake City, Utah 84123 Web: www.alsslc.com

General Lab Comments

Method: MC-AN-001

Matrix: Spore Trap

The results provided in this report relate only to the items tested.

Samples were received in acceptable condition unless otherwise noted.

The following information was provided by the client: Sample ID and Air Volume.

Air Volume can potentially affect the validity of the results.

This test report shall not be reproduced, except in full, without written approval of ALS.

Page 5 of 5 Fri, 02/28/20 6:00 PM MBIOREP-V4.2