ENVIRONMENTAL ANALYSIS ASSOCIATES, INC.

306 5th Street, Suite 2A - Bay City, MI 48708

LABORATORY REPORT

AIRBORNE MOLD AND DUST ANALYSIS

Report prepared for : ABC Envrionmental

Client Project # : 127789
Project Description : 5567 Oak Drive

EAA Project # : 21-0123

Samples Collected : 1/5/21
Samples received : 1/13/21
Date of Analysis : 1/13/21

Authorized / data reviewed by : *Joseph R. Heintskill*

Joseph R. Heintskill
Laboratory Manager

AIRBORNE MOLD AND DUST ANALYSIS

EAA Method # : DUST-A01

Client Name : ABC Envrionmental
Client Project # : 127789 — Project description : 5567 Oak Drive
Requested by : Joe Johnson — Date collected : 1/5/21 — Sample condition : *Acceptable as received*
EAA Project# : 21-0123 — Sample received : 1/13/21

Client Sample#	Sample Description / Location	Background dust Loading - General Comments
1	Bedroom 1	Typical dust
2	Bathroom	Typical dust
3	Living Room	Elevated skin fragments
4	Kitchen	Elevated fiberglass fibers
5	Outdoor	Atypical opaque dust

AIRBORNE MOLD SPORE CONCENTRATIONS (Cts./m^3) -- Spore Trap Sample Analysis *High mag. used 500X*

Category Sample # -->	1	2	3	4	5
Total Mold Spores (Cts/m^3)	**823**	**1650**	**2200**	**3660**	**18900**
Alternaria					
Aspergillus/Penicillium		183	274		137
Pigmented Asco & Basidio	91	183	91	46	1550
Mix tiny, hyal Asco & Basidio	640	960	1650	3200	17100
Botrytis					
Chaetomium					
Cladosporium	91	274	183	411	
Curvularia					46
Drechslera/Bipolaris					
Epicoccum					
Fusicladium-like					
Nigrospora					
Oidium/Peronospora					
Pithomyces					46
Rusts					
Smuts / Myxomycetes / Periconia					46
Stachybotrys					
Stemphylium					
Torula					
Ulocladium					
Other Hyaline Fungi					
Other Fungi		46			
Unidentified Fungi					
Hyphae fragments					46
Algal / fern spores					
Insect parts					
POLLEN (Total cts/m^3)	**not detected**	**not detected**	**not detected**	**not detected**	**not detected**
Not specified					
Pinus / other					
COMMON AEROSOLS (cts/m3)					
Skin cell fragments	6580	3290	28400	10300	91
Fiberglass fibers				137	
Cellulosic / synthetic fibers	366	137	1190	503	
Unidentified opaque	1280	1780	2700	3840	10300
Mineral / clay soil dust	4570	6490	20900	24700	11200
OTHER PARTICLES (cts/m3)	**not detected**	**not detected**	**not detected**	**not detected**	**not detected**
Statistical Parameters					
Vol. analyzed (m3)-high mag - 500x :	0.022	0.022	0.022	0.022	0.022
Detect limit(Cts/m^3)-high magnification:	45.7	45.7	45.7	45.7	45.7
% sample analyzed-high magnification:	29%	29%	29%	29%	29%
Vol. analyzed(m^3)/entire sple 150-300x:	0.075	0.075	0.075	0.075	0.075
* Detection limit (Cts/m^3)/entire sple:	13.3	13.3	13.3	13.3	13.3
* Note: The "entire sample" detection limit applies to the "large" particle categories analyzed during the low magnification examination of the entire sample					
Sample flow rate (lpm):	15.0	15.0	15.0	15.0	15.0
Sample trace length (mm):	14.40	14.40	14.40	14.40	14.40
Microscope field diameter (mm):	0.420	0.420	0.420	0.420	0.420

Note: Sample results are only applicable to the items tested and locations as received. Sample descriptions and volumetric data are provided by the client. *rev.2021-All Clients-1/4/21*

Background dust loading criteria (Estimated area%): Typical-low <5%, Typical 5-20%, Atypical, 20-40%, Elevated 40-80%, Overloaded >80%

Authorized / data reviewed by: *Joseph R. Heintskill* — Report date: **1/13/21**

Analyst : *jls* — Date analyzed: 1/13/21

AIRBORNE MOLD AND DUST ANALYSIS

EAA Method # : DUST-A01

(Mold and Dust Comparison Summary - Cts/m^3)

Client Name : ABC Envrionmental

Client Project # : 127789

Requested by : Joe Johnson

Project description : 5567 Oak Drive

EAA Project# : 21-0123

Sample # Description	Mold Spores * Total	Chronic W.I. Aspergillus / Penicillium	Chronic W.I. Fungi	Outdoor Spores	Hyphae Fragments	Pollen	Skin cell Fragments	Fibrous Dust Min. wool / Fiberglass	Fibrous Dust Cellulose / Synthetic	Non-Fibrous dust Unident. Opaque	Non-Fibrous dust Crystalline Minerals	Other Particles
1 Bedroom 1	823			823			6,580		366	1,280	4,570	
2 Bathroom	1,650	183		1,460			3,290		137	1,780	6,490	
3 Living Room	2,200	274		1,920			28,400		1,190	2,700	20,900	
4 Kitchen	3,660			3,660			10,300	137	503	3,840	24,700	
5 Outdoor	18,900	137		18,800	46		91			10,300	11,200	

** Note : All individual particle category values are rounded to 3 significant figures. As a result, individually summed mold categories may appear slightly different than the "Total" value*

Chronic water indicating fungi (W.I.), include the genera Chaetomium, Stachybotrys, Ulocladium, and Trichoderma. The hyphae fragments category includes hyphae (mycelia), phialides, perithecia, etc. In order for chart clarity, measurements where the particle category was not detected are intentionally left blank.

Range	Percentile
Elevated - 6	>99%
Elevated - 5	>95%
Atypical - 4	>90%
Atypical - 3	>75%
Typical - 2	>50%
Typical - 1	<50%

AIRBORNE MOLD AND DUST ANALYSIS

EAA Method # : DUST-A01

RAW COUNT DATA ONLY - Do not use for volumetric concentration comparisons

end of report

Client Name : ABC Envrionmental | Description : 5567 Oak Drive

Client Project # : 127789 | Date collected : 1/5/21

EAA Project# : 21-0123 | Sample received : 1/13/21 | Analysis magnification : 500x

Client Sample#	Sample Description / Location	Raw / Extrapolated Count Comments
1	Bedroom 1	*Note: When a fractional raw particle count is present, (e.g. 0.3), the count*
2	Bathroom	*is based on counting the "entire sample" at low magnification.The results are*
3	Living Room	*then "back-calculated" to the high magnification detection limit for that specific*
4	Kitchen	*particle category. This "raw" count page is required to be reported to the*
5	Outdoor	*client as directed by the AIHA-LAP accreditation program.*

AIRBORNE MOLD / DUST (Raw / Extrapolated Spore Counts Only) - Spore Trap Sample Analysis

Category Sample # -->	1	2	3	4	5
Total Mold Spores - Total Cts.	**18**	**36**	**48**	**80**	**415**
Alternaria					
Aspergillus/Penicillium		4	6		3
Pigmented Asco & Basidio	2	4	2	1	34
Mix tiny, hyal Asco & Basidio	14	21	34	70	375
Botrytis					
Chaetomium					
Cladosporium	2	6	4	9	
Curvularia					1
Drechslera/Bipolaris					
Epicoccum					
Fusicladium-like					
Nigrospora					
Oidium/Peronospora					
Pithomyces					1
Rusts					
Smuts / Myxomycetes / Periconia					1
Stachybotrys					
Stemphylium					
Torula					
Ulocladium					
Other Hyaline Fungi					
Other Fungi		1			
Unidentified Fungi					
Hyphae fragments					1
Algal / fern spores					
Insect parts					
POLLEN (Total cts)	**not detected**	**not detected**	**not detected**	**not detected**	**not detected**
Not specified					
Pinus / other					
COMMON AEROSOLS	**280**	**256**	**1165**	**864**	**472**
Skin cell fragments	144	72	622	226	2
Fiberglass fibers				3	
Cellulosic / synthetic fibers	8	3	26	11	
Unidentified opaque	28	39	59	84	226
Mineral / clay soil dust	100	142	458	540	244
OTHER PARTICLES	**not detected**	**not detected**	**not detected**	**not detected**	**not detected**

Statistical Parameters					
Vol. analyzed (m3)-high mag - 500x :	0.022	0.022	0.022	0.022	0.022
Detect limit(Cts/m^3)-high magnification:	45.7	45.7	45.7	45.7	45.7
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Sample trace length (mm):	14.40	14.40	14.40	14.40	14.40
Microscope field diameter (mm):	0.420	0.420	0.420	0.420	0.420

***NOTE** : The raw particle count data cannot be used as a measure of the actual airborne concentration and only represents the number of "raw" or extrapolated particles counted. Where a fractional value is present (e.g. 0.3 or 1.3) for any mold or dust category, the entire trace for this category was analyzed and the "entire sample detection limit" applies.*

Analyst : jls | Date analyzed: 1/13/21