



## SPORE TRAP REPORT

PSI, Inc.  
850 Poplar Street  
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE  
Reported: 8/25/18  
Analyzed: 8/25/18  
Received: 8/25/18  
Sampled: 8/25/18

Work Order: 1808697  
Project Number: 08161784-14  
Project Name: Pine-Richland - Hance

Analyst: TV

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	2660 9217			2660 9252			2660 9262		
Location:	Room 127			Room 128			Room 129		
Comments:									
Detection Limit(spores/m <sup>3</sup> ):	13			13			13		
Hyphal Fragments	6	80		2	27		1	13	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.	2	27	1.32	6	80	4.35	1	13	2.38
Ascospores	62	830	41.06	55	730	39.86	16	210	38.10
Basidiospores	14	190	9.27	34	450	24.64	5	67	11.90
Smuts/Myxomycetes				2	27	1.45			
Peronospora/Oidium sp.									
Pen./Asp. Group	71	950	47.02	39	520	28.26	17	230	40.48
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*									
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.	1	13	0.66				2	27	4.76
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.				1	13	0.72			
Cercospora sp.									
Rusts							1	13	2.38
Nigrospora sp.									
Ganoderma sp.	1	13	0.66	1	13	0.72			
Background debris (1-5)**	2			2			2		
Sample Volume (liters)	75			75			75		
<b>TOTAL †</b>	<b>151</b>	<b>2,000</b>	<b>100</b>	<b>138</b>	<b>1,800</b>	<b>100</b>	<b>42</b>	<b>560</b>	<b>100</b>

Total % may not equal 100 due to rounding.



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LAB NUMBER:	004A			005A			006A		
Client ID:	2660 9254			2660 8084			2660 9226		
Location:	Room 131			Room 132			Room 133		
Comments:							Please see last page		
Detection Limit(spores/m <sup>3</sup> ):	13			13			13		
Hyphal Fragments	1	13		1	13		7	93	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.	2	27	2.02	1	13	0.71	1	13	0.08
Ascospores	54	720	54.55	73	970	52.14	6	80	0.47
Basidiospores	10	130	10.10	18	240	12.86			
Smuts/Myxomycetes				2	27	1.43			
Peronospora/Oidium sp.									
Pen./Asp. Group	26	350	26.26	43	570	30.71	1280	17000	99.30
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*							1	13	0.08
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.							1	13	0.08
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.	1	13	1.01						
Rusts	3	40	3.03						
Nigrospora sp.									
Ganoderma sp.	3	40	3.03	3	40	2.14			
Background debris (1-5)**	2			2			2		
Sample Volume (liters)	75			75			75		
<b>TOTAL †</b>	<b>99</b>	<b>1,300</b>	<b>100</b>	<b>140</b>	<b>1,900</b>	<b>100</b>	<b>1289</b>	<b>17,000</b>	<b>100</b>

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TEST METHOD: PSI-WI-620-816

LAB NUMBER:	007A			008A			009A		
Client ID:	2660 9237			2660 9241			2660 8077		
Location:	Room 139			Room 135			Room 138		
Comments:									
Detection Limit(spores/m <sup>3</sup> ):	13			13			13		
Hyphal Fragments	2	27		4	53		2	27	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.	11	150	5.29	35	470	25.93	6	80	8.96
Ascospores	13	170	6.25	63	840	46.67	39	520	58.21
Basidiospores	2	27	0.96	12	160	8.89	7	93	10.45
Smuts/Myxomycetes	1	13	0.48				1	13	1.49
Peronospora/Oidium sp.									
Pen./Asp. Group	179	2400	86.06	19	250	14.07	10	130	14.93
Alternaria sp.				1	13	0.74			
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*							1	13	1.49
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.				1	13	0.74	1	13	1.49
Epicoccum sp.									
Polythrincium sp.							1	13	1.49
Pestalotia sp.									
Cercospora sp.									
Rusts							1	13	1.49
Nigrospora sp.									
Ganoderma sp.	2	27	0.96	4	53	2.96			
Background debris (1-5)**	2			2			2		
Sample Volume (liters)	75			75			75		
<b>TOTAL †</b>	<b>208</b>	<b>2,800</b>	<b>100</b>	<b>135</b>	<b>1,800</b>	<b>100</b>	<b>67</b>	<b>890</b>	<b>100</b>

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TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	010A			011A			012A		
Client ID:	2660 9261			2660 9307			2660 9248		
Location:	Room 130			Room 134			Room 136		
Comments:									
Detection Limit(spores/m <sup>3</sup> ):	13			13			13		
Hyphal Fragments	2	27		4	53		1	13	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.	1	13	0.64	2	27	1.61	40	530	57.97
Ascospores	49	650	31.41	66	880	53.23	17	230	24.64
Basidiospores	11	150	7.05	14	190	11.29	2	27	2.90
Smuts/Myxomycetes				1	13	0.81	1	13	1.45
Peronospora/Oidium sp.									
Pen./Asp. Group	88	1200	56.41	40	530	32.26	9	120	13.04
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*									
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.	1	13	0.64						
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts	1	13	0.64						
Nigrospora sp.									
Ganoderma sp.	5	67	3.21	1	13	0.81			
Background debris (1-5)**	2			2			2		
Sample Volume (liters)	75			75			75		
<b>TOTAL †</b>	<b>156</b>	<b>2,100</b>	<b>100</b>	<b>124</b>	<b>1,700</b>	<b>100</b>	<b>69</b>	<b>920</b>	<b>100</b>

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TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	013A			014A			015A		
Client ID:	2660 9218			2660 8048			2660 8126		
Location:	Room 137			Room 140			Outside - Main Entrance		
Comments:									
Detection Limit(spores/m <sup>3</sup> ):	13			13			13		
Hyphal Fragments	1	13		10	130		5	67	
Pollen							3	40	
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.	11	150	37.93	1	13	0.02	7	93	2.42
Ascospores	12	160	41.38	30	400	0.61	157	2100	54.33
Basidiospores	1	13	3.45	4	53	0.08	102	1400	35.29
Smuts/Myxomycetes	1	13	3.45	1	13	0.02	2	27	0.69
Peronospora/Oidium sp.									
Pen./Asp. Group	2	27	6.90	4848	65000	99.22	9	120	3.11
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.	1	13	3.45						
Stachybotrys sp.									
Unknown/Brown*							2	27	0.69
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.							2	27	0.69
Epicoccum sp.									
Polythrincium sp.				1	13	0.02			
Pestalotia sp.									
Cercospora sp.							1	13	0.35
Rusts	1	13	3.45	1	13	0.02			
Nigrospora sp.									
Ganoderma sp.							7	93	2.42
Background debris (1-5)**	2			2			3		
Sample Volume (liters)	75			75			75		
<b>TOTAL †</b>	<b>29</b>	<b>390</b>	<b>100</b>	<b>4886</b>	<b>66,000</b>	<b>100</b>	<b>289</b>	<b>3,900</b>	<b>100</b>

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LAB NUMBER:	016A			017A			018A		
Client ID:	2660 8109			2660 8190			2660 8158		
Location:	Room 141			Room 117			Room 118		
Comments:									
Detection Limit(spores/m <sup>3</sup> ):	13			13			13		
Hyphal Fragments	2	27		5	67		2	27	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%	raw ct.	spores/m <sup>3</sup>	%
Cladosporium sp.	4	53	5.00	6	80	2.03	7	93	8.86
Ascospores	40	530	50.00	7	93	2.36	44	590	55.70
Basidiospores	13	170	16.25	5	67	1.69	6	80	7.59
Smuts/Myxomycetes	1	13	1.25	1	13	0.34	1	13	1.27
Peronospora/Oidium sp.									
Pen./Asp. Group	22	290	27.50	275	3700	92.91	21	280	26.58
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*									
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.				1	13	0.34			
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Ganoderma sp.				1	13	0.34			
Background debris (1-5)**	2			3			2		
Sample Volume (liters)	75			75			75		
<b>TOTAL ‡</b>	<b>80</b>	<b>1,100</b>	<b>100</b>	<b>296</b>	<b>4,000</b>	<b>100</b>	<b>79</b>	<b>1,100</b>	<b>100</b>

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**Specific Sample Comments:**

006A: **Aspergillus conidiophores present.**

General Report Comments:

\* Unknown/brown are spores without a distinctive morphology on spore traps and non-viable surface samples.

\*\* Background debris is the amount of particulate matter present on the slide and is graded from 1-5 with 1 being very little, while a debris rating of 5 is unreadable.

The higher the rating the more likelihood spores may be underestimated.

A rating of 4 should be interpreted as minimal counts and may actually be higher than reported.

‡ Total spores/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.

All samples were analyzed at 400x or 600x magnification unless noted.

The reporting limit is one spore/item adjusted for volume. Entire trace was analyzed unless noted.

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Results relate only to items tested. Results are not corrected for blank data.

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Samples will be disposed of within thirty (30) days unless notified in writing by the client.

Results based on volume measurement provided by the client.

*Disclaimer:* The laboratory is not responsible for interpretation of test results or for methods used during sampling.

**All samples were in acceptable condition unless noted.**

Respectfully submitted, PSI, Inc.



Jack Maake, Approved Signatory