



Intertek-PSI
850 Poplar Street
Pittsburgh, PA 15220

Tel +1 412.922.4001
Fax +1 412.922.4014
intertek.com/building

January 11, 2019

Pine Richland School District
702 Warrendale Road
Gibsonia, PA 15044-9534
Attention: Mr. Gary Zang
Maintenance Supervisor

Re: Follow-up Fungal Assessments
Pine-Richland Elementary, Middle and High Schools
Gibsonia, PA 15044
PSI Project No.: 08161784

Dear Mr. Zang:

Enclosed, please find the analytical results for the samples collected by your staff at each of the district's schools between December 27, 2018 and January 2, 2019.

PURPOSE AND SCOPE OF INVESTIGATION

As part of the Pine Richland School District's periodic Indoor Air Quality (IAQ) testing, airborne bioaerosol (mold) samples were collected from select locations at each of the district's schools between December 27, 2018 and January 2, 2019. The purpose of the sampling was to document ambient conditions in each facility.

AIRBORNE BIOAEROSOLS

Airborne bioaerosol samples were collected in five (5) locations each at Hance Elementary, Richland Elementary and Wexford Elementary, and ten (10) locations each at the Middle School, High School, and Eden. The samples were collected between December 27, 2018 and January 2, 2019. In all, forty-five (45) air samples were collected. Samples were collected using Air-O-Cell™ disposable spore trap air sampling cassettes. The cassettes are attached to a sampling pump calibrated at 15 liters of air per minute (15 LPM), with sampling intervals of three minutes. The samples were analyzed by PSI's Pittsburgh, PA AIHA EMLAP accredited microbiological laboratory. The analyses estimate the total concentration of airborne aerosols including mold/yeast spores. In addition to the determination of the total concentration of microorganisms, the most predominant types of mold spores were identified to the genus level. The disposable spore trap cassettes are designed for the rapid collection and analysis of a wide range of airborne aerosols including viable and non-viable spores, but do not differentiate between viable and non-viable mold spores. The analytical results are attached.



SAMPLING RESULTS

Following is a summary of the sampling results for the samples collected between December 27, 2018 and January 2, 2019. Additional information is provided in the appendices of this report.

Hance Elementary

- Airborne bioaerosol samples were collected from Rooms 113, 118, 128, 136 and 142 on December 27, 2018. Total spore counts were low, ranging between 13 spores/m³ and 27 spores/m³. No Pen/Asp or target molds indicative of a wet environment were reported.

Wexford Elementary

- Airborne bioaerosol samples were collected from Rooms C112, B103, B120, C136 and C118 on January 2, 2019. Total spore counts were low, ranging between 27 spores/m³ and 390 spores/m³. Very low levels of Pen/Asp (40 spores/m³) were reported in Room C118, and no target molds indicative of a wet environment were reported.

Richland Elementary

- Airborne bioaerosol samples were collected from Rooms 201, 103, 007, 219 and 120 on December 27, 2018. Total spore counts were low, ranging between 26 spores/m³ and 550 spores/m³. Low levels of Pen/Asp (400 spores/m³) were reported in Room 007 and in Room 219 (80 spores/m³). No target molds indicative of a wet environment were reported.

Eden Hall

- Airborne bioaerosol samples were collected from Rooms 206, 314, 103, 243, 702, 308, 802, 633, 521 and the Library on December 27, 2018. Total spore counts were low, ranging between 26 spores/m³ and 94 spores/m³. No Pen/Asp or target molds indicative of a wet environment were reported.

Middle School

- Airborne bioaerosol samples were collected from Rooms 301, 418, 100, the Gate Room, 203, 201, 401, 208, 313 and 306 on January 2, 2019. Total spore counts were low, ranging between 26 spores/m³ and 2,500 spores/m³. Low levels of Pen/Asp (110 spores/m³) were reported in the Gate Room and in Room 306 (160 spores/m³). No target molds indicative of a wet environment were reported. Slightly elevated counts of Cladosporium sp. were present in the samples collected from Room 306 and the Gate Room. Cladosporium is not considered a target mold and is typically found outdoors.



High School

- o Airborne bioaerosol samples were collected from the Chorus Room, Room 424, the Planetarium (Room 008), Room 105, the office, Room 41, Room 100, Room 201, Room 303, and Room 319 on December 27, 2018. Total spore counts were low, ranging between 13 spores/m³ and 210 spores/m³. Low levels of Pen/Asp were reported in Room 105 (27 spores/m³), the Office (53 spores/m³), Room 41 (93 spores/m³), and Room 100 (27 spores/m³). One spore (13 spores/m³) of *Stachybotrys* sp., a target mold indicative of a wet environment was reported in Room 41. This spore is likely residual and is not considered to be significant.

CONCLUSIONS & RECOMMENDATIONS

The analytical results are not indicative of conditions conducive to mold growth or an interior fungal amplification in the classrooms assessed.

WARRANTY

PSI warrants that the findings contained herein have been prepared with the level of care and skill ordinarily exercised by professionals practicing in the community. The scope of work addressed readily accessible and exposed interior building areas. Observation or sampling of inaccessible areas such as behind walls was not performed. The investigation was limited to locations in the western wing of the facility where water leakage impact was reported by the client. PSI's investigation did not address determining the source of moisture intrusion into the structure.

The sampling methods utilized by PSI in performing its services may have resulted in the disturbance or dispersal of mold spores. While we attempted to minimize such dispersal, we cannot eliminate it entirely. The Client acknowledges that mold is ubiquitous to the environment with mold amplification occurring when building materials are impacted by moisture. The Client further acknowledges that site conditions are outside of PSI's control, and that mold amplification will likely occur, or continue to occur, in the presence of moisture. As such, PSI cannot and shall not be held responsible for the occurrence or reoccurrence of mold amplification.

No other warranties are implied or expressed.

USE BY THIRD PARTIES

This report was prepared pursuant to the contract PSI has with the Pine Richland School District. That contractual relationship included an exchange of information about the subject site that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than the Pine Richland School District, for whom it was prepared, is prohibited and therefore not foreseeable to PSI.



Periodic Air Quality Testing
Pine Richland School District
PSI Project #08161794
January 11, 2019

Reliance or use by any such third party without explicit written authorization does not make said third party a third party beneficiary to PSI's contract with the Pine Richland School District. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

UNIDENTIFIABLE CONDITIONS

This report is necessarily limited to the conditions observed and to the information available at the time of the work. Due to the nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of work or which were not apparent at the time of our site work. This report is also limited to information available from the client at the time it was conducted. The report may not represent all conditions at the subject site as it only reflects the information gathered from specific locations.

Please contact PSI at 412-922-4001 x383 if you have any questions or if you need additional information.

Respectfully Submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.



Michael N. Kopar, CIE
Environmental Project Manager

p:\0816\2018\iaq\mold\08161784 - pine richland\random samples\08161784 pine richland fungal sampling.docx

Attachments:

- A. Analytical Results



ATTACHMENTS

ATTACHMENT A
ANALYTICAL RESULTS



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE

Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901027
Project Number: 08161784
Project Name: Pine-Richland

Analyst: TV

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373 TX License: LAB0145 TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	8508			8537			Rm 113		
Location:	Rm 136			Rm 128			Rm 113		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments									
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.				1	13	50.00			
Ascospores	1	13	50.00				1	13	100.00
Basidiospores				1	13	50.00			
Smuts/Myxomycetes	1	13	50.00						
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*									
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	2			2			2		
Sample Volume (liters)	75			75			75		
TOTAL †	2	26	100	2	26	100	1	13	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901027
Project Number: 08161784
Project Name: Pine-Richland
Analyst: TV

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	004A			005A		
Client ID:	8529			8576		
Location:	Rm 118			Rm 142		
Comments:						
Detection Limit(spores/m³):	13			13		
Hyphal Fragments						
Pollen						
Sample Description:	Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.						
Ascospores	2	27	100.00	1	13	100.00
Basidiospores						
Smuts/Myxomycetes						
Peronospora/Oidium sp.						
Pen./Asp. Group						
Alternaria sp.						
Drechslera/Bipolaris						
Spegazzinia sp.						
Tetraploa sp.						
Curvularia sp.						
Stachybotrys sp.						
Unknown/Brown*						
Torula sp.						
Ulocladium sp.						
Chaetomium sp.						
Pithomyces sp.						
Epicoccum sp.						
Polythrincium sp.						
Pestalotia sp.						
Cercospora sp.						
Rusts						
Nigrospora sp.						
Background debris (1-5)**	2			2		
Sample Volume (liters)	75			75		
TOTAL †	2	27	100	1	13	100

Total % may not equal 100 due to rounding.

SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901027
Project Number: 08161784
Project Name: Pine-Richland

Attn: Mike Kopar

Analyst: TV

Specific Sample Comments:

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/m³ 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.

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

1901027

CHAIN OF CUSTODY - MOLD

Intertek

IH Laboratory
850 Poplar Street
Pittsburgh, PA 15220
412-922-4001 ext. 313/272

Project Information	
Project Name:	FINE RICHMOND
Project No.:	08161784
PO Number:	HANCE
Sample Date:	12-27-18

Send Results To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Send Invoice To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Requested Turn Around Time	
Same Day	<input type="checkbox"/>
1-2 Day (24-48 hr)	<input type="checkbox"/>
3-5 Day	<input checked="" type="checkbox"/>
Requested Date:	
Laboratory Use Only	
All Samples in Acceptable Condition:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Comments:	
Shipping Charges Apply:	<input checked="" type="checkbox"/>

Environmental Conditions					
Light	Fog	Rain	Wind	Snow	Clear
Moderate					
Heavy					
Notes:					
Temperature:			Relative Humidity		
Inside	Outside		Inside	Outside	

Sample Analysis		C/code
Direct Exam		DE
Fungal Culture & Genus ID (non-speciation)		FC/G
Fungal Culture & Genus ID Speciation (top 3 species)		FC/G sp.
Bacteria w/Genus ID (3 most predominant)		BAC
Sewage Screen		SS
Legionella Culture		LC
Other (list)		Oth

Sample ID	Location Description	Sample Type Code	Total Volume/ Area	Sample Analysis Code	Notes:
8508	RM 136	Air	75 L	D.E.	
8537	RM 128				
RM 113	RM 113				
8529	RM 118				
8576	RM 142				

Sample Type	Code
Air	A
Swab	S
Tape Lift	TL
Bulk/Dust	BD
Plate	P
Water	W
Other (list)	O

Relinquished by:	Client	Date/Time	1/3/19
Received by:	ESR	Date/Time	1/3/19 1300

Special Instructions / Comments:



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901028
Project Number: 08161784
Project Name: Pine-Richland
Analyst: TV

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	8513			8493			8521		
Location:	Rm 201			Rm 103			Rm 007		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	2	27					1	13	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	2	27	100.00	1	13	50.00	2	27	4.88
Ascospores				1	13	50.00	8	110	19.51
Basidiospores									
Smuts/Myxomycetes									
Peronospora/Oidium sp.									
Pen./Asp. Group							30	400	73.17
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*									
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.							1	13	2.44
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	2			2			3		
Sample Volume (liters)	75			75			75		
TOTAL †	2	27	100	2	26	100	41	550	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901028
Project Number: 08161784
Project Name: Pine-Richland
Analyst: TV

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	004A			005A		
Client ID:	8506			8509		
Location:	Rm 219			Rm 120		
Comments:						
Detection Limit(spores/m ³):	13			13		
Hyphal Fragments	1	13				
Pollen	1	13				
Sample Description:	Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	3	40	27.27	1	13	50.00
Ascospores						
Basidiospores						
Smuts/Myxomycetes	2	27	18.18			
Peronospora/Oidium sp.						
Pen./Asp. Group	6	80	54.55			
Alternaria sp.						
Drechslera/Bipolaris						
Spegazzinia sp.						
Tetraploa sp.						
Curvularia sp.						
Stachybotrys sp.						
Unknown/Brown*				1	13	50.00
Torula sp.						
Ulocladium sp.						
Chaetomium sp.						
Pithomyces sp.						
Epicoccum sp.						
Polythrincium sp.						
Pestalotia sp.						
Cercospora sp.						
Rusts						
Nigrospora sp.						
Background debris (1-5)**	3			2		
Sample Volume (liters)	75			75		
TOTAL[‡]	11	150	100	2	26	100

Total % may not equal 100 due to rounding.

SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901028
Project Number: 08161784
Project Name: Pine-Richland

Attn: Mike Kopar

Analyst: TV

Specific Sample Comments:

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/m³ 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.

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

This report may not be reproduced except in full, without written approval of PSI, Inc.

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

1901028

CHAIN OF CUSTODY - MOLD

intertek

IH Laboratory
850 Poplar Street
Pittsburgh, PA 15220
412-922-4001 ext. 313/272

Project Information

Project Name: FINE KREITMAN

Project No: 08161784

PO Number: Richmond Elementary School

Sample Date: 12-27-13

Send Results To:

Company:

Attn:

Address:

Telephone:

Email:

Send Invoice To:

Company:

Attn:

Address:

Telephone:

Email:

Requested Turn Around Time

Same Day 1-2 Day (24-48 hr) 3-5 Day

Requested Date:

Laboratory Use Only Y N

All Samples In Acceptable Condition:

Comments:

Shipping Charges Apply:

Environmental Conditions

Fog	Rain	Wind	Snow	Clear	Temperature:
					Inside / Outside
Light					Relative Humidity
Moderate					Inside / Outside
Heavy					
Notes:					

Sample Analysis

Direct Exam	C/code
Fungal Culture & Genus ID (non-speciation)	DE
Fungal Culture & Genus ID Speciation (top 3 species)	FC/G
Bacteria w/Genus ID (3 most predominant)	FC/G sp
Sewage Screen	BAC
Legionella Culture	SS
Other (list)	LC
	Oth

Sample ID	Location Description	Sample Type Code	Total Volume / Area	Sample Analysis Code	Notes:
8513	RM 201	AVC	75 L	O.E.	
8493	RM 103	/	/	/	
8524	RM 007	/	/	/	
8504	RM 219	/	/	/	
8509	RM 120	/	/	/	

Sample Type	Code
Air	A
Swab	S
Tape Lift	TL
Bulk/Dust	BD
Plate	P
Water	W
Other (list)	O

Relinquished by: CHEN

Date/Time: 1/3/14

Received by: [Signature]

Date/Time: 1/3/14

Special Instructions / Comments:



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 1/2/19

Work Order: 1901029
Project Number: 08161784
Project Name: Pine-Richland

Analyst: TV

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	6112			8538			8531		
Location:	Rm C112			Rm B103			Rm B120		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	2	27		1	13		4	53	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	9	120	75.00	8	110	100.00	10	130	76.92
Ascospores	1	13	8.33				1	13	7.69
Basidiospores									
Smuts/Myxomycetes	1	13	8.33						
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	1	13	8.33				2	27	15.38
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	3			2			3		
Sample Volume (liters)	75			75			75		
TOTAL †	12	160	100	8	110	100	13	170	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 1/2/19

Work Order: 1901029
Project Number: 08161784
Project Name: Pine-Richland
Analyst: TV

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	004A			005A		
Client ID:	8517			8510		
Location:	Rm C136			Rm C118		
Comments:						
Detection Limit(spores/m ³):	13			13		
Hyphal Fragments				5	67	
Pollen						
Sample Description:	Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	2	27	100.00	23	310	79.31
Ascospores						
Basidiospores				1	13	3.45
Smuts/Myxomycetes				1	13	3.45
Peronospora/Oldium sp.						
Pen./Asp. Group				3	40	10.34
Alternaria sp.						
Drechslera/Bipolaris						
Spegazzinia sp.						
Tetraploa sp.						
Curvularia sp.						
Stachybotrys sp.						
Unknown/Brown*						
Torula sp.						
Ulocladium sp.						
Chaetomium sp.						
Pithomyces sp.						
Epicoccum sp.						
Polythrincium sp.						
Pestalotia sp.						
Cercospora sp.						
Rusts				1	13	3.45
Nigrospora sp.						
Background debris (1-5)**	2			3		
Sample Volume (liters)	75			75		
TOTAL †	2	27	100	29	390	100

Total % may not equal 100 due to rounding.

SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

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Analyzed: 1/9/19
Received: 1/3/19
Sampled: 1/2/19

Work Order: 1901029
Project Number: 08161784
Project Name: Pine-Richland

Attn: Mike Kopar

Analyst: TV

Specific Sample Comments:

General Report Comments:

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

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Respectfully submitted, PSI, Inc.



Jack Maake, Approved Signatory

1901029

CHAIN OF CUSTODY - MOLD

intertek

IH Laboratory
850 Poplar Street
Pittsburgh, PA 15220
412-922-4001 ext. 313/272

Project Information	
Project Name:	FINE RICHWOOD
Project No:	08161784
PO Number:	WEXTER
Sample Date:	1-2-19

Send Results To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Send Invoice To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Requested Turn Around Time	
Same Day	<input type="checkbox"/>
1-2 Day (24-48 hr)	<input type="checkbox"/>
3-5 Day	<input checked="" type="checkbox"/>
Requested Date:	
Laboratory Use Only	
All Samples in Acceptable Condition:	<input checked="" type="checkbox"/>
Comments:	
Shipping Charges Apply:	<input checked="" type="checkbox"/>

Environmental Conditions					
Fog	Rain	Wind	Snow	Clear	Temperature
					Inside / Outside
Light					Relative Humidity
Moderate					Inside / Outside
Heavy					
Notes:					

Sample Analysis	
Direct Exam	DE
Fungal Culture & Genus ID (non-speciation)	FC/G
Fungal Culture & Genus ID Speciation (top 3 species)	FC/G sp.
Bacteria w/Genus ID (3 most predominant)	BAC
Sewage Screen	SS
Legionella Culture	LC
Other (list)	Oth

Sample ID	Location Description	Sample Type Code	Total Volume/ Area	Sample Analysis Code	Notes:
C112	RM C112	Air	75 L	O.E.	
8528	B103				
8531	B120				
8517	C136				
8510	C118				

Sample Type	Code
Air	A
Swab	S
Tape Lift	TL
Bulk/Dust	BD
Plate	P
Water	W
Other (list)	O

Relinquished by:	CHEN	Date/Time	1/3/19
Received by:	ESS Nels	Date/Time	1/3/19 1300

Special Instructions / Comments:	
----------------------------------	--



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE

Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 1/2/19

Work Order: 1901030
Project Number: 08161784
Project Name: Pine-Richland
Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	8504-1			8525			8530		
Location:	Rm 301			Rm 418			Rm 100		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	1	13		2	27		2	27	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.				1	13	50.00	5	67	62.50
Ascospores	1	13	33.33						
Basidiospores									
Smuts/Myxomycetes	1	13	33.33	1	13	50.00	1	13	12.50
Peronospora/Oldium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris							1	13	12.50
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.	1	13	33.33						
Stachybotrys sp.									
Unknown/Brown*							1	13	12.50
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	2			2			3		
Sample Volume (liters)	75			75			75		
TOTAL †	3	39	100	2	26	100	8	110	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 1/2/19

Work Order: 1901030
Project Number: 08161784
Project Name: Pine-Richland

Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	004A			005A			006A		
Client ID:	8534			8504-2			8523		
Location:	Gate Rm			Rm 203			Rm 201		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	26	350		1	13		2	27	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	119	1600	81.51				3	40	50.00
Ascospores	6	80	4.11	1	13	50.00			
Basidiospores	3	40	2.05				1	13	16.67
Smuts/Myxomycetes	3	40	2.05	1	13	50.00	1	13	16.67
Peronospora/Oidium sp.									
Pen./Asp. Group	8	110	5.48						
Alternaria sp.									
Drechslera/Bipolaris	2	27	1.37						
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	3	40	2.05				1	13	16.67
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.	1	13	0.68						
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.	1	13	0.68						
Background debris (1-5)**	4			2			4		
Sample Volume (liters)	75			75			75		
TOTAL[‡]	146	2,000	100	2	26	100	6	79	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
 850 Poplar Street
 Pittsburgh, PA 15220

Attn: Mike Kopar

DATE

Reported: 1/9/19
 Analyzed: 1/9/19
 Received: 1/3/19
 Sampled: 1/2/19

Work Order: 1901030
 Project Number: 08161784
 Project Name: Pine-Richland
 Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	007A			008A			009A		
Client ID:	8520			8527			8524		
Location:	Rm 401			Rm 208			Rm 313		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	1	13		1	13		2	27	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	1	13	20.00				1	13	25.00
Ascospores	3	40	60.00	1	13	33.33	1	13	25.00
Basidiospores				1	13	33.33	1	13	25.00
Smuts/Myxomycetes	1	13	20.00						
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*				1	13	33.33	1	13	25.00
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			75		
TOTAL[‡]	5	66	100	3	39	100	4	52	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE

Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 1/2/19

Work Order: 1901030
Project Number: 08161784
Project Name: Pine-Richland

Analyst: JM

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	010A		
Client ID:	8532		
Location:	Rm 306		
Comments:			
Detection Limit(spores/m ³):	13		
Hyphal Fragments	29	390	
Pollen			
Sample Description:	Air-O-Cell		
	raw ct.	spores/m ³	%
Cladosporium sp.	154	2100	84.62
Ascospores	6	80	3.30
Basidiospores	2	27	1.10
Smuts/Myxomycetes	3	40	1.65
Peronospora/Oidium sp.			
Pen./Asp. Group	12	160	6.59
Alternaria sp.	1	13	0.55
Drechslera/Bipolaris			
Spegazzinia sp.			
Tetraploa sp.			
Curvularia sp.	1	13	0.55
Stachybotrys sp.			
Unknown/Brown*	2	27	1.10
Torula sp.			
Ulocladium sp.			
Chaetomium sp.			
Pithomyces sp.			
Epicoccum sp.			
Polythrincium sp.			
Pestalotia sp.			
Cercospora sp.	1	13	0.55
Rusts			
Nigrospora sp.			
Background debris (1-5)**	4		
Sample Volume (liters)	75		
TOTAL †	182	2,500	100

Total % may not equal 100 due to rounding.

SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 1/2/19

Work Order: 1901030
Project Number: 08161784
Project Name: Pine-Richland

Attn: Mike Kopar

Analyst: JM

Specific Sample Comments:

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/m³ 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.

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

This report may not be reproduced except in full, without written approval of PSI, Inc.

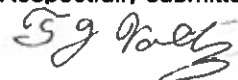
Samples will be disposed of within thirty (30) days unless notified in writing by the client.

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.



Tim Voltz, Approved Signatory

1901030

CHAIN OF CUSTODY - MOLD

intertek

IH Laboratory
850 Poplar Street
Pittsburgh, PA 15220
412-922-4001 ext. 313/272

Project Information	
Project Name:	PIPE RICHMOND
Project No:	08161784
PO Number:	MIDDLE SCHOOL
Sample Date:	1-2-19

Send Results To:	
Company:	
Attn:	M. KAPR
Address:	
Telephone:	
Email:	

Send Invoice To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Requested Turn Around Time		
Same Day	1-2 Day (24-48 hr)	3-5 Day
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Requested Date:		
Laboratory Use Only		
All Samples In Acceptable Condition:	Y N	
Comments:	<input checked="" type="checkbox"/>	
Shipping Charges Apply:	<input checked="" type="checkbox"/>	

Environmental Conditions					
Light	Fog	Rain	Wind	Snow	Clear
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Moderate				
Heavy					
Notes:	Temperature:		Relative Humidity:		
	Inside	Outside	Inside	Outside	

Sample Analysis	
Direct Exam	DE
Fungal Culture & Genus ID (non-speciation)	FC/G
Fungal Culture & Genus ID Speciation (top 3 species)	FC/G sp.
Bacteria w/Genus ID (3 most predominant)	BAC
Sewage Screen	SS
Legionella Culture	LC
Other (list)	Oth

Sample ID	Location Description	Sample Type Code	Total Volume/ Area	Sample Analysis Code	Notes:
8504-1	RM 301	Air	75 L	O.E.	
8525	RM 418				
8530	RM 100				
8534	Gate RM				
8504-2	RM 203				
8513	RM 201				
8520	RM 401				
8527	RM 208				
8524	RM 313				
8532	RM 306				

Sample Type	Code
Air	A
Swab	S
Tape Lift	TL
Bulk/Dust	BD
plate	P
Water	W
Other (list)	O

Relinquished by:	CHEN	Date/Time	1/3/19
Received by:	<i>[Signature]</i>	Date/Time	1/3/19 1300

Special Instructions / Comments:



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE

Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901031

Project Number: 08161784
Project Name: Pine-Richland

Analyst: TV

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	8485			8492			8490		
Location:	Rm 001 Chorus			Rm 424			Rm 008 Planetarium		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments				1	13		2	27	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	1	13	33.33						
Ascospores				2	27	66.67	1	13	33.33
Basidiospores	1	13	33.33				1	13	33.33
Smuts/Myxomycetes							1	13	33.33
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	1	13	33.33						
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.				1	13	33.33			
Background debris (1-5)**	2			2			2		
Sample Volume (liters)	75			75			75		
TOTAL †	3	39	100	3	40	100	3	39	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901031
Project Number: 08161784
Project Name: Pine-Richland

Analyst: TV

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373	TX License: LAB0145						TEST METHOD: PSI-WI-620-816		
LAB NUMBER:	004A			005A			006A		
Client ID:	8496			2267			2330		
Location:	Rm 105			Office			Rm 41		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments				1 13			1 13		
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	1	13	25.00	7	93	43.75	1	13	8.33
Ascospores				4	53	25.00	3	40	25.00
Basidiospores									
Smuts/Myxomycetes	1	13	25.00						
Peronospora/Oidium sp.									
Pen./Asp. Group	2	27	50.00	4	53	25.00	7	93	58.33
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.							1	13	8.33
Unknown/Brown*				1	13	6.25			
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	2			3			3		
Sample Volume (liters)	75			75			75		
TOTAL [‡]	4	53	100	16	210	100	12	160	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901031
Project Number: 08161784
Project Name: Pine-Richland
Analyst: TV

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	007A			008A			009A		
Client ID:	2303			2369			8503		
Location:	Rm 100			Rm 201			Rm 303		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	1	13							
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	2	27	33.33	1	13	50.00			
Ascospores	1	13	16.67						
Basidiospores									
Smuts/Myxomycetes	1	13	16.67						
Peronospora/Oidium sp.									
Pen./Asp. Group	2	27	33.33						
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*				1	13	50.00	1	13	100.00
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	2			2			1		
Sample Volume (liters)	75			75			75		
TOTAL †	6	80	100	2	26	100	1	13	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
 850 Poplar Street
 Pittsburgh, PA 15220

DATE
 Reported: 1/9/19
 Analyzed: 1/9/19
 Received: 1/3/19
 Sampled: 12/27/18

Work Order: 1901031
 Project Number: 08161784
 Project Name: Pine-Richland

Analyst: TV

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	010A		
Client ID:	8511		
Location:	Rm 319 LGI		
Comments:			
Detection Limit(spores/m ³):	13		
Hyphal Fragments			
Pollen			
Sample Description:	Air-O-Cell		
	raw ct.	spores/m ³	%
Cladosporium sp.	2	27	66.67
Ascospores	1	13	33.33
Basidiospores			
Smuts/Myxomycetes			
Peronospora/Oidium sp.			
Pen./Asp. Group			
Alternaria sp.			
Drechslera/Bipolaris			
Spegazzinia sp.			
Tetraploa sp.			
Curvularia sp.			
Stachybotrys sp.			
Unknown/Brown*			
Torula sp.			
Ulocladium sp.			
Chaetomium sp.			
Pithomyces sp.			
Epicoccum sp.			
Polythrincium sp.			
Pestalotia sp.			
Cercospora sp.			
Rusts			
Nigrospora sp.			
Background debris (1-5)**	2		
Sample Volume (liters)	75		
TOTAL[‡]	3	40	100

Total % may not equal 100 due to rounding.

SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
Reported: 1/9/19
Analyzed: 1/9/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901031
Project Number: 08161784
Project Name: Pine-Richland

Attn: Mike Kopar

Analyst: TV

Specific Sample Comments:

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/m³ 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.

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

This report may not be reproduced except in full, without written approval of PSI, Inc.

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

1901031

CHAIN OF CUSTODY - MOLD

intertek

IH Laboratory
850 Poplar Street
Pittsburgh, PA 15220
412-922-4001 ext. 313/272

Project Information	
Project Name:	PINE RICHWOOD
Project No:	08161784
PO Number:	1464 JCTool
Sample Date:	11-11-15

Send Results To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Send Invoice To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Requested Turn Around Time		
Same Day	1-2 Day (24-48 hr)	3-5 Day
		<input checked="" type="checkbox"/>
Requested Date:		
Laboratory Use Only		
All Samples In Acceptable Condition:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Comments:		
Shipping Charges Apply:	<input checked="" type="checkbox"/>	

Environmental Conditions					
Light	Fog	Rain	Wind	Snow	Clear
Moderate	Temperature:		Relative Humidity		
	Inside		Outside		
Heavy	Temperature:		Relative Humidity		
	Inside		Outside		
Notes:					

Sample Analysis		C/code
Direct Exam		DE
Fungal Culture & Genus ID (non-speciation)		FC/G
Fungal Culture & Genus ID Speciation (top 3 species)		FC/G sp.
Bacteria w/Genus ID (3 most predominant)		BAC
Sewage Screen		SS
Legionella Culture		LC
Other (list)		Oth

Sample ID	Location Description	Sample Type Code	Total Volume/ Area	Sample Analysis Code	Notes:
8495	RM 001 Corridor	AVL	75 L	O.E.	
8496	RM 424				
8490	RM 008 Planetarium				
8496	RM 105				
2467	office				
2330	RM 41				
7303	RM 100				
2369	RM 201				
8503	RM 303				
8511	RM 319 LBS				

Sample Type	Code
Air	A
Swab	S
Tape Lift	TL
Bulk/Dust	BD
Plate	P
Water	W
Other (list)	O

Relinquished by:	CHENS	Date/Time	1/3/19
Received by:	ESJ	Date/Time	1/3/19 1300

Special Instructions / Comments:	
----------------------------------	--



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

Attn: Mike Kopar

DATE
Reported: 1/10/19
Analyzed: 1/10/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901032
Project Number: 08161784
Project Name: Pine-Richland
Analyst: JM

AIHA-LAP, LLC. Lab #100373 TX License: LAB0145 TEST METHOD: PSI-WI-620-816

LAB NUMBER:	001A			002A			003A		
Client ID:	8491			8507			8505		
Location:	Library			Rm 206			Rm 314		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	1	13		1	13		1	13	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	1	13	33.33				2	27	50.00
Ascospores									
Basidiospores									
Smuts/Myxomycetes	1	13	33.33	1	13	100.00	1	13	25.00
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.							1	13	25.00
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	1	13	33.33						
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			75		
TOTAL †	3	39	100	1	13	100	4	53	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
 850 Poplar Street
 Pittsburgh, PA 15220
 Attn: Mike Kopar

DATE
 Reported: 1/10/19
 Analyzed: 1/10/19
 Received: 1/3/19
 Sampled: 12/27/18

Work Order: 1901032
 Project Number: 08161784
 Project Name: Pine-Richland
 Analyst: JM

AIHA-LAP, LLC. Lab #100373 TX License: LAB0145 TEST METHOD: PSI-WI-620-816

LAB NUMBER:	004A			005A			006A		
Client ID:	Rm 103			Rm 243			Rm 702		
Location:	Rm 103			Rm 243			Rm 702		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	2	27		1	13		1	13	
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	2	27	28.57	1	13	50.00			
Ascospores							1	13	50.00
Basidiospores	1	13	14.29						
Smuts/Myxomycetes	2	27	28.57	1	13	50.00			
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	2	27	28.57				1	13	50.00
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.									
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	2			2			2		
Sample Volume (liters)	75			75			75		
TOTAL †	7	94	100	2	26	100	2	26	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
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Analyzed: 1/10/19
Received: 1/3/19
Sampled: 12/27/18

Work Order: 1901032
Project Number: 08161784
Project Name: Pine-Richland
Analyst: JM

Attn: Mike Kopar

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

TEST METHOD: PSI-WI-620-816

LAB NUMBER:	007A			008A			009A		
Client ID:	2298			8482			2282		
Location:	Rm 308			Rm 802			Rm 633		
Comments:									
Detection Limit(spores/m ³):	13			13			13		
Hyphal Fragments	1	13		1	13				
Pollen									
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	2	27	40.00	2	27	50.00			
Ascospores				1	13	25.00	1	13	50.00
Basidiospores				1	13	25.00	1	13	50.00
Smuts/Myxomycetes	1	13	20.00						
Peronospora/Oidium sp.									
Pen./Asp. Group									
Alternaria sp.									
Drechslera/Bipolaris									
Spegazzinia sp.									
Tetraploa sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown*	1	13	20.00						
Torula sp.									
Ulocladium sp.									
Chaetomium sp.									
Pithomyces sp.	1	13	20.00						
Epicoccum sp.									
Polythrincium sp.									
Pestalotia sp.									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5)**	3			3			3		
Sample Volume (liters)	75			75			75		
TOTAL †	5	66	100	4	53	100	2	26	100

Total % may not equal 100 due to rounding.



SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
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Analyzed: 1/10/19
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Sampled: 12/27/18

Work Order: 1901032
Project Number: 08161784
Project Name: Pine-Richland

Analyst: JM

Attn: Mike Kopar

TEST METHOD: PSI-WI-620-816

AIHA-LAP, LLC. Lab #100373

TX License: LAB0145

LAB NUMBER:	010A		
Client ID:	8497		
Location:	Rm 521		
Comments:			
Detection Limit(spores/m³):	13		
Hyphal Fragments	1	13	
Pollen			
Sample Description:	Air-O-Cell		
	raw ct.	spores/m ³	%
Cladosporium sp.			
Ascospores	1	13	16.67
Basidiospores	1	13	16.67
Smuts/Myxomycetes	2	27	33.33
Peronospora/Oidium sp.			
Pen./Asp. Group			
Alternaria sp.			
Drechslera/Bipolaris			
Spegazzinia sp.			
Tetraploa sp.			
Curvularia sp.	1	13	16.67
Stachybotrys sp.			
Unknown/Brown*	1	13	16.67
Torula sp.			
Ulocladium sp.			
Chaetomium sp.			
Pithomyces sp.			
Epicoccum sp.			
Polythrincium sp.			
Pestalotia sp.			
Cercospora sp.			
Rusts			
Nigrospora sp.			
Background debris (1-5)**	3		
Sample Volume (liters)	75		
TOTAL †	6	79	100

Total % may not equal 100 due to rounding.

SPORE TRAP REPORT

PSI, Inc
850 Poplar Street
Pittsburgh, PA 15220

DATE
Reported: 1/10/19
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Sampled: 12/27/18

Work Order: 1901032
Project Number: 08161784
Project Name: Pine-Richland

Attn: Mike Kopar

Analyst: JM

Specific Sample Comments:

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/m³ 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.

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

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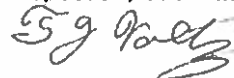
Samples will be disposed of within thirty (30) days unless notified in writing by the client.

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.



Tim Voltz, Approved Signatory

1901032

CHAIN OF CUSTODY - MOLD

intertek

IH Laboratory
850 Poplar Street
Pittsburgh, PA 15220
412-922-4001 ext. 313/272

Project Information	
Project Name:	<i>FINE REHTLAND</i>
Project No:	<i>08161734</i>
PO Number:	<i>E02W</i>
Sample Date:	<i>12-17-10</i>

Send Results To:	
Company:	
Attn:	<i>M. Kafar</i>
Address:	
Telephone:	
Email:	

Send Invoice To:	
Company:	
Attn:	
Address:	
Telephone:	
Email:	

Requested Turn Around Time	
Same Day	<input type="checkbox"/>
1-2 Day (24-48 hr)	<input type="checkbox"/>
3-5 Day	<input checked="" type="checkbox"/>
Requested Date:	
Laboratory Use Only	
Y . N	<input checked="" type="checkbox"/> . <input type="checkbox"/>
All Samples in Acceptable Condition:	<input checked="" type="checkbox"/>
Comments:	
Shipping Charges Apply:	<input checked="" type="checkbox"/>

Environmental Conditions					
Fog	Rain	Wind	Snow	Clear	Temperature:
Light					Inside
Moderate					Outside
Heavy					Relative Humidity
Notes:					Inside
					Outside

Sample Analysis	
Direct Exam	DE
Fungal Culture & Genus ID (non-speciation)	FC/G
Fungal Culture & Genus ID Speciation (top 3 species)	FC/G sp.
Bacteria w/Genus ID (3 most predominant)	BAC
Sewage Screen	SS
Legionella Culture	LC
Other (list)	Oth

Sample ID	Location Description	Sample Type Code	Total Volume/ Area	Sample Analysis Code	Notes:
8491	Library	Air	75 L	O.E.	
8507	RM 306				
8509	RM 314				
RM 103	RM 103				
RM 243	RM 243				
RM 701	RM 701				
2298	RM 308				
8482	RM 802				
2282	RM 633				
8477	RM 521				

Sample Type	Code
Air	A
Swab	S
Tape Lift	TL
Bulk/Dust	BD
Plate	P
Water	W
Other (list)	O

Relinquished by:	<i>CHEN</i>	Date/Time	<i>1/3/19</i>
Received by:	<i>ESM</i>	Date/Time	<i>1/3/19 1300</i>

Special Instructions / Comments:	
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