

Final to Dept_

GARDINER CITY COUNCIL AGENDA ITEM INFORMATION SHEET



Online _

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| Mee | eting Date | 05/13/2020 | Department Buildings & C | Grounds | | | | | | | |
| Ago | enda Item | 4.d Discuss City Hall/Public Sa | afety Building Issues and N | /lold Report | | | | | | | |
| | Est. Cost | Unknown | | | | | | | | | |
| | In 2011 th | ne city had a mold survey completed. | No action was taken as a result | of that report. | | | | | | | |
| ion | station, w | son was working with his team to com then what was perceived to be a mold on having a new mold survey conducte report.) | issue was discovered. Chief Ne | elson expressed his | | | | | | | |
| Background Information | crumbling especially | nief Nelson noted that the back of the building is in need of repair. The cinder blocks are and falling in. As you all know the building abuts a hill that a lot of water seeps from, lly during major storm events. A.E. Hodson Engineering Company came to look at the (we will have an update by the Council meeting). | | | | | | | | | |
| Backgr | This agen repairs of safety me | nda item is strictly to have a discussion the building. It is noted that a mold re easures. | n on how the City Council would be mediation plan must be impleme | like to proceed with ented immediately for | | | | | | | |
| | Requested Action | | | | | | | | | | |
| | ity Manage and/o ance Review | or The state of th | | | | | | | | | |
| | ouncil Vote, Action Taker | | | | | | | | | | |
| De | epartmenta Follow-Up | | | | | | | | | | |
| | Clark | d Reading Adv | vertised vertised/in 15 Days | EFFECTIVE DATE | | | | | | | |

Updated Book



Air Quality Management Services, Inc.

"Discovering Solutions for Healthier Living"

May 5th, 2020

City of Gardiner C/o Christine Landes 6 Church Street Gardiner, Maine 04345

Re: Mold Assessment at the above location.

AQM Project #: 20-246



Air Quality Management Services, Inc. (AQM) conducted a mold assessment at your request on April 24th, 2020 at the above location (City Hall, Fire Department and Police Department), to characterize airborne and surface mold levels as well mold / moisture issues in the building.

I. Background

Assessment requested as pro-active measure and general concern for possible mold and water intrusion issues. Water intrusion has occurred in the past along the back-side of the building, and interior finish-wall systems have reportedly been replaced along that back wall. Water management improvements have also reportedly been made to reduce or eliminate water intrusion.

II. Testing

Air samples: Air samples were collected using a high-volume sampling pump and Air-O-Cell media (Spore-Trap) cassettes. Samples were collected in representative locations to determine airborne particle and fungal burdens. Samples were collected at 15 liters per minute flow rate for either 5 or 10 minutes. An ambient outdoor sample was collected as a comparative reference.

Surface samples: Tape lift samples were collected from representative surfaces to evaluate mold growth and/or settled spores / dust. Samples were collected using special microscope slides fitted with clear tape tabs.

Samples for mold analysis were submitted to Micro Diagnostic Services in Lewiston, Maine.

Temperature / Relative Humidity: Area temperature and relative humidity were determined using an EXTECH RH300 combination meter.

Moisture Readings: Moisture content of building materials (if applicable) was measured using a Delmhorst "MoistureCheck" meter in either scanning or penetration mode.

III. Observations (see photos for examples and more details)

- Water intrusion appears to be occurring in the Fire Department Weight Room and Hose Tower, due to rainwater runoff and infiltration through concrete wall(s). Visible mold growth is present on concrete / paint surfaces, mostly in the Hose Tower.
- Humidity-type, suspected mold growth was observed on a nightstand in the Fire Department Sleeping Quarters; this was determined not to be mold growth.
- Other than in the Fire Department rooms mentioned above, there does not appear to be significant, recent or ongoing water infiltration through walls along the back-side of the building, possibly because of the water-management improvements that reportedly have been made.

IV. Results

Temperature and Relative Humidity

| Area | Temp (°F) | %RH | GPP Moisture |
|------------------------|-----------|------|--------------|
| Outdoors | 51.1 | 19.0 | ND |
| FD Weight Room | 64.2 | 21.2 | ND |
| FD Truck Bay | 64.7 | 20.8 | ND |
| FD Sleeping Quarters | 69.6 | 21.4 | ND |
| FD Restroom | 69.8 | 22.7 | ND |
| FD Day Room | 69.8 | 22.6 | ND |
| PD Office Area | 70.7 | 23.9 | ND |
| PD Men's Locker Room | 71.4 | 16.5 | ND |
| PD Chief's Office | 72.1 | 13.6 | ND |
| PD Women's Locker Room | 70.8 | 17.9 | ND |
| CH Back Storage Room | 76.6 | 13.5 | ND |
| CH Council Room | 71.4 | 17.0 | ND |
| CH Front Office | 75.2 | 16.2 | ND |

Temp = Temperature; %RH = Relative Humidity (%); GPP Moisture = Grains per Pound moisture content of air (higher values indicate greater amounts of water in the air); ND = Not Determined FD = Fire Dept; PD = Police Dept; CH = City Hall

Moisture Readings (not applicable or not determined if no entry below)

| Area | Location | Material | Moisture Elevated | | |
|------------------------|-------------------------|-----------|-------------------|--|--|
| FD Sleeping Quarters | Exterior-facing Wall(s) | sheetrock | No | | |
| FD Restroom | Exterior-facing Wall(s) | sheetrock | No | | |
| PD Men's Locker Room | Exterior-facing Wall(s) | sheetrock | No | | |
| PD Chief's Office | Exterior-facing Wall(s) | sheetrock | No | | |
| PD Women's Locker Room | Exterior-facing Wall(s) | sheetrock | No | | |
| CH Back Storage Room | Exterior-facing Wall(s) | sheetrock | No | | |

FD = Fire Dept; PD = Police Dept; CH = City Hall

IV. Results (Continued)

Airborne Mold Sampling (refer to lab report for full details)

Air sample results are summarized as follows:

| Sample # | Location | Comments | Overall Airborne Mold Level (1) | Mold Type(s) of Concern Amplified Mold (2) | | |
|-------------|------------------------|------------------------|------------------------------------|--------------------------------------------|--|--|
| A1 | Outdoors | Comparative Air Sample | Trace | Not Applicable | | |
| A2 | FD Weight Room | None | Trace | None | | |
| A3 | FD Truck Bay | None | Trace | None | | |
| A4 | FD Sleeping Quarters | None | Trace | None | | |
| A5 | FD Restroom | None | None Detected | None | | |
| A6 | FD Day Room | None | Trace | None | | |
| A7 | PD Office Area | None | Trace | None | | |
| A8 | PD Men's Locker Room | None | Trace | None | | |
| A9 | PD Chief's Office | None | Trace | None | | |
| A10 | PD Women's Locker Room | None | None Detected | None | | |
| A11 | CH Back Storage Room | None | Trace | None | | |
| A12 | CH Council Room | None | Trace | None | | |
| A13 | CH Front Office | None | Trace | None | | |

⁽¹⁾ Based on AQM experience

Indoor air sample results did not identify any significant mold spore elevations relative to the outdoors and/or typical levels in occupied indoor environments – No risks anticipated based on these results.

Surface Mold Sampling (refer to lab report for full details)

Surface sample results are summarized as follows:

| Sample # | Location | Comments | Mold Type(s) Present at Excess Level (1) or Mold Type(s) of Concern (2) |
|----------|------------------------------|--------------------------|----------------------------------------------------------------------------|
| T1 | Weight Room Wall | Visible / Suspected Mold | Cladosporium species, Moderate |
| T2 | Hose Tower Wall | Visible / Suspected Mold | Cladosporium species, High |
| Т3 | Sleeping Quarters Nightstand | Visible / Suspected Mold | None |

⁽¹⁾ Based on AQM experience and/or industry consensus; represents mold growth unless stated otherwise

Results for surface samples T1 and T2 identified moderate to high levels of mold growth. Sample T3 did not identify mold growth or spore types of concern (only trace levels of common, outdoor-type spores settled in dust).

⁽²⁾ Based on industry consensus and AQM experience. Note that for Aspergillus/Penicillium-like spores, a common spore that is also commonly involved in air quality issues, the typical outdoor level in Maine through much of the warmer months is 200 to 300 counts per cubic meter of air (though wide variations can occur). This common outdoor level may be considered when viewing these spores in terms of occupant exposure or presence of significant elevation, regardless of outdoor levels at the time of sampling.

⁽²⁾ Spore types strongly correlated with water damage and/or air quality concerns, based on scientific literature and/or industry consensus

IV. Results (Continued)

Area Characterization of Fungal Presence, per IICRC S520 Standard (1)

Condition-1 Areas: All Areas Sampled, other than below (Condition-2 Areas)

Condition-2 Areas: Fire Department Weight Room and Hose Tower

Condition-3 Areas: None

See Photos and Lab Results for basis of characterization, and Definitions Section for Area Characterization Notes (1) ANSI/IICRC S520/R520 Standard and Reference Guide for Professional Mold Remediation - Third Edition: 2015, The Institute of Inspection, Cleaning and Restoration Certification, www.iicrc.org

V. Recommendations

- Enlist the services of an IICRC-certified mold remediation company.
- Isolate the Hose Tower and Weight Room from other areas of the building, using proper engineering controls to prevent dispersal of mold, paint and other dust particulates during remediation.
- Hose Tower and Weight Room Clean / Treat (<u>see Definitions</u>) walls with signs of water infiltration and visible / suspected mold growth. An abrasive-media method (e.g. Soda or dry-ice blasting) may be necessary to remove mold on surfaces as well as impregnated in paint.
- Detail Clean (see <u>Definitions</u>) all surfaces / contents in the Remediation Areas, because of the observed surface-mold growth, elevated levels of airborne fungi and/or probability of settled spores.
- Replace building materials / Release Remediation area ONLY after a successful post remedial evaluation.
- Consult a Professional Engineer or a competent qualified contractor to control groundwater intrusion through perimeter walls and/or prevent saturated soil surrounding the foundation by: installing exterior foundation perimeter drainage, sloping the ground away from the foundation 5% (6" for every 10"), installing gutters (If gutters are to be installed ensure they are kept free of debris and the downspouts direct water well-away from the foundation), and water proofing the foundation walls or utilizing other like systems.
- In addition to the above general recommendations to prevent water impact to exterior walls / foundation, repair exterior concrete wall systems as needed to prevent water infiltration through gaps and physically-damaged areas.

VI. Definitions:

- o Finished System includes the underlying wall / ceiling insulations and appropriate vapor barriers.
- O **Detail Cleaning** involves HEPA vacuuming and damp wiping with a mild detergent (including hard-to-reach areas / inside / underside / behind furniture and other objects). Following cleaning, there should be no area debris or dust. All mold growth must be removed from surfaces.
- Clean / Treat involves the application of an appropriate cleaning / treatment system. Surfaces should be thoroughly cleaned including damp / wet cleaning and wiping of surfaces; use cleaning / scrubbing method with appropriate abrasiveness based on characteristics of the material surfaces as well as types and extent of mold growth. All mold growth must be removed from surfaces. Application of any coating must be light; encapsulation is unacceptable unless done after post-remediation testing. There should never be any visible mold, demolition debris, sheetrock dust, paper or insulation fragments, general dust, etc. remaining on surfaces after Clean / Treatment actions.

Area Characterization Notes (According to the IICRC S520 Standard):

A "Condition 1" environment contains what would be considered normal background amounts of fungal spores and fragments, as well as trace amounts of fungal growth. Normal housekeeping and cleaning procedures can keep a Condition 1 environment under control. Most residential homes and commercial office space would be considered Condition 1.

A "Condition 2" environment is associated with an area that has a limited amount of fungal growth present. Condition 2 environments are also associated with areas adjacent to heavy contamination that may contain elevated levels of spores or fungal fragments generated by the adjacent contamination. Condition 2 environments also may contain a limited amount of porous materials and can usually be returned to Condition 1 by diligent cleaning and thorough drying.

"Condition 3" environments contain heavy mold growth and usually are associated with persistent moisture or water intrusions. Condition 3 environments often contain hidden mold growth, due to water damage being present in closed areas such as wall cavities.

The overall goal of mold remediation as presented in IICRC S520 Standard is to return the area to a Condition 1. This means that trace amounts of mold may still be present, but the type and amount of mold is consistent with measurements made outdoors or in an adjacent indoor area that is free from amplified levels of mold.

AQM appreciates this opportunity to have aided in this project. In the event you have questions or require further assistance, please do not hesitate to contact us.

Sincerely,

Mick Jeunla Nick Ferrala, BA, CIEC

Industrial Hygienist, Microbiologist

ASSESSMENT LIMITATIONS

ASSESSMENT LIMITATIONS

The observations, conclusions and recommendations described in this assessment report were made under the conditions stated herein, taking into account any information / concerns provided or reported to AQM, and were arrived at in accordance with generally accepted standards related to indoor air quality investigations and good industrial hygiene practice. The conclusions presented in the report were based solely upon the services described herein, and not on scientific tasks or procedures beyond the scope of described services, time and / or any budgetary constraints. Assessments were made at the request of the Client based on information provided at the time of authorization to proceed with the evaluation. This report is prepared for the Client's use only and in accordance with scope of services requested, and should not be distributed to other parties for review and reliance.

The findings relating to this assessment were not intended to be exhaustive in nature, nor do they attempt to identify all possible sources of indoor contaminants, chemicals or even mold throughout the entire structure. Building materials may contain asbestos. In the event that asbestos building materials are suspected, further evaluation should be made prior to renovations in accordance with Federal, State, and Local regulations — as applicable. Note: Effective April 22nd, 2010 Environmental Protection Agency's (EPA) Renovation, Repair, and Painting (RRP) rule is in effect. This means that any renovation, repair and painting activities on target housing or child-occupied facility built before 1978 performed for compensation after April 22nd, 2010 falls under this rule. It is mandatory that any renovation impacting painted surfaces in a facility built before 1978 be tested for presence of lead-based paints. A Contractor (or Firm) trained and certified under this rule shall perform removal of lead-base painted surfaces, ONLY if lead-based paints are present and renovation / remediation of the structure falls under the definition of EPA's new rule. You can find EPA's RRP rule and definitions at their website: http://www.epa.gov/lead/pubs/renovation.htm. The chosen contractor to perform activities disturbing lead-based painted surfaces will comply with all State, Federal, Local Health and Safety Regulatory Requirements (which ever is more stringent).

Any measured results, analysis data, and / or physical conditions observed are only valid for the period in which this inspection / testing was conducted. Certain assumptions can be made based on information provided to AQM on or before the time of the assessment coupled with analytical data and observations made at the time of the inspection / testing.

Where such quantitative laboratory analyses have been conducted by an outside laboratory, AQM has relied upon the data provided, and has not conducted an independent evaluation of the reliability of the data. This data have been reviewed and interpretations made as presented in the report.

Historical events or ambient air conditions that may have existed prior to this assessment cannot be correlated in any way with the enclosed data. No warranty, real or implied, is made as to what was or is the exact cause or source that may have adversely affected the indoor air quality prior to the date of this assessment.

The report is based on AQM's professional opinion and on our experience in conjunction with information gathered during the assessment and laboratory data provided. Information and recommendations set forth in this report are intended to characterize current conditions based on the reported concerns and discoveries made at the time of the inspection and testing period. Information is being provided to aid in the development of corrective actions or remediation that may improve overall conditions identified and/or to improve the overall air quality.

PHOTO DOCUMENTATION



View of Weight Room (Fire Dept)



Signs of water infiltration through the back-side exterior wall in the Weight Room



Signs of water infiltration through the back-side exterior wall in the Weight Room



Mold growth on back-side exterior wall in the Weight Room



Hose Tower (Fire Dept)



Signs of water infiltration through walls in the Hose Tower



Mold growth and signs of water infiltration through walls in the Hose Tower



Mold growth and signs of water infiltration through walls in the Hose Tower



Mold growth and signs of water infiltration through walls in the Hose Tower



Water infiltration appears to be occurring high up in the Hose Tower, possibly at the interface with the roof of the truck Bay



Back-side of building; water-management improvements have reportedly been made



Damage to wall system at back-side of building (outside of the Fire Dept)



Roof systems do not direct water runoff wall-away from the foundation



Sleeping Quarters (Fire Dept)



Suspected mold growth on underside of nightstand in Sleeping Quarters (determined not to be mold growth)



View above ceiling tiles in the Fire Dept (Sleeping Quarters / Restroom); surfaces have been sealed with foam



View above ceiling tiles in the Fire Dept (Sleeping Quarters / Restroom); surfaces have been sealed with foam





Fire Dept Restroom closet; exterior wall has been removed, surfaces appear clean

SUPPORTING DOCUMENTATION

Micro Diagnostic Services, LLC Service Request Record

| 349 Randali Rd, Unit 5 | | | Place and a manufacture of the control of the contr | | | | | | | |
|------------------------------------------------|------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Lewiston, Maine 04240 info@microdiagnostic.net | | | Please do not write in this space | | | | | | | |
| Customer: Air Quality Management Serv | vices Inc. | | | | | | | | | |
| Address: P.O. Box 249 | | | | | | | | | | |
| City, State, Zip: Lewiston, ME | 04241 | | | | | | | | | |
| Authorized Contact: Randy Geoffre | оу | | Assigned WO No: 20113 | | | | | | | |
| Phone: 207-657-7360 FAX: | 207-657-7361 | | | | | | | | | |
| Sampled by: Nick Ferrala | | | Email: | nick@agmserv | MINISTER CALLS OF THE PARTY OF | | | | | |
| Billing: Connie@agmservices.com | | | Project Number / Name: 20-246 Gardiner | | | | | | | |
| | [] Next Day | F Comp Day /F | P.O. Number: 20-246 (RUSH) 3-5 Day | | | | | | | |
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| Campied by. INF | | Sample In | formation | | | Approximate and an electric sequences in consideration from the electric sequence is not considerate to conside | | | | |
| Sample Identification | Sample Type | Date / Time Sampled | Sample Volume / Area | Analysis Code | MDS Use Only | | | | | |
| A1 - Outdoor | | Air | 4/24/20 | 75 L | A01 | 20113-1 | | | | |
| A2 - Weight Rm | | Air | 4/24/20 | 75 L | A01 | -2 | | | | |
| A3 - Truck Bay | Air | 4/24/20 | 75 L | A01 | -3 | | | | | |
| A4 - Sleeping Qtr | Air | 4/24/20 | 75 L | A01 | -4 | | | | | |
| A5 - FD Restroom | Air | 4/24/20 | 75 L | A01 | -5 | | | | | |
| A6 - Day Rm | | Air | 4/24/20 | 75 L | A01 | -6 | | | | |
| A7 - PD Offices | | Air | 4/24/20 | 75 L | A01 | -7 | | | | |
| A8 - Men's Locker | | Air | 4/24/20 | 75 L | A01 | -8 | | | | |
| A9 - PD Chief | | Air | 4/24/20 | 75 L | A01 | -9 | | | | |
| A10 - Women's Locker | | Air | 4/24/20 | 75 L | A01 | -10 | | | | |
| A11 - City Storage Rm | | Air | 4/24/20 | 75 L | A01 | - (1 | | | | |
| A12 - City Council Rm | | Air | 4/24/20 | 75 L | A01 | -12 | | | | |
| A13 - City Front Office | | Air | 4/24/20 | 75 L | A01 | -13 | | | | |
| T1 - Weight Rm Wall | | Tape | 4/24/20 | 1 cm2 | S01 | -14 | | | | |
| T2 - Hose Tower Wall | | Tape | 4/24/20 | 1 cm2 | S01 | -15 | | | | |
| T3 - Sleeping Qtr Nightstand | | Таре | 4/24/20 | 1 cm2 | S01 | -16 | | | | |
| Sample Types: A = Air, T = Tape, S = St | wab, B = Bulk, C | - | | | | | | | | |
| Analysis Codes: | | | | | | | | | | |
| A01 = Air-O-Cell Fungi | S01 = Direct I | Exam Fungi | | B01 = Fungi, | Bulk Material | | | | | |
| A02 = Air-O-Cell Expanded | S02 = Direct I | Exam Fungi Qua | ant | B02 = Substa | nce ID, Bulk N | Naterial | | | | |
| A03 = Burkhard Fungi | S03 = Direct I | Exam Expanded | ſ | | | | | | | |
| A04 = Burkhard Expanded | | | | | | | | | | |
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Micro Diagnostic Services, LLC 349 Randall Rd, Unit 5

Lewiston, ME 04240

info@microdiagnostic.net

Client: Air Quality Management, Inc.

Project: 20-246 Gardiner

WO: 20113 Medium: Air-O-Cell Received: 4/24/2020 Reported: 4/27/2020

2

8

100

100

100

400

25

100

Method: ASTM D7391

Airborne Fungal Spore Analysis by Direct Optical Microscopy

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Total Fungi Comment:

Torula Trichoderma Ulocladium Other Colorless Hyphal Fragments

Note: Values may not appear to be additive due to rounding; detection limit may be reduced in some samples by background interference. Bipolaris++ = Bipolarus/Dreschlera/Exserohilium; Myxomycetes++ = Smuts/Myxomycetes/Periconia

17

100

1

6

50

300

*Denotes spores counted over 100% of the sample trace; Minimum detection limit / multiplier may vary from overall detection limit / multiplier.

1

50

100

2

Debris Rating Scale: 0 = No trace visible; 5 = Contiguous debris. Background debris levels greater than 3 indicate poor visibilty for the analyst reading the slide, which can result in under-counting of some types of spores, particularly smaller spores such as Apergillus/Penicillium-like.

Disclaimer: Micro Diagnostic Services (MDS) is not responsible for limitations of sampling or analytical methodologies. Client is responsible for all sample collection activities including labeling of samples and proper submission of sample information on the Service Request Record form. Interpretation of data contained in this report is the responsibility of the Client. This report relates only to the samples contained herein and may not be reproduced, except in full, without written approval by MDS. In all cases, MDS maintains liability limited to the analytical fees charged by MDS for analysis. Use of this report or data contained herein by any party implies acceptance of these terms.

> Analyst: Nick Ferrala, Microbiologist, BA, CIEC



Micro Diagnostic Services, LLC 349 Randall Rd, Unit 5 Lewiston, ME 04240

WO: 20113

Medium: Air-O-Cell

Project: 20-246 Gardiner

Client: Air Quality Management, Inc.

Received: 4/24/2020 Reported: 4/27/2020

Method: ASTM D7391

Airborne Fungal Spore Analysis by Direct Optical Microscopy

info@microdiagnostic.net

| Lab Number: | | 20113 -5 | | | 20113 -6 | | 20113 -7 | | | 20113 -8 | | | | |
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| Sample Description: | | A5 | | | A6 | | | A7 | | | A8 | | | |
| | Lection 14 and 15 and 1 | Restroo | m | | Day Rm | | PD Offices | | | Me | n's Lock | er | | |
| Air Volume Sampled (L): | | 75 | | | 75 | | | 75 | | | 75 | | | |
| Detection Limit (Ct./m3): | NAMES AND POST OFFICE ADDRESS OF THE PARTY O | 50 | | | 50 | | | 50 | | | 50 | | | |
| Background (0-5): | | 1 | | | 2 | | | 2 | | | 2 | | | |
| Background (0-3). | Raw | | | Raw | | | Raw | | | Raw | | | | |
| Spore Genus/Category | Ct | Ct./m³ | % | Ct | Ct./m ³ | % | Ct | Ct./m ³ | % | Ct | Ct./m ³ | % | | |
| Alternaria | | | | | | | | | | | | | | |
| Ascospores | | | | | | | | | | | | | | |
| Aspergillus/Penicillium-like | | | | | | | | | | | | | | |
| Basidiospores | | | | | | | | | | 1 | 50 | 100 | | |
| Bipolarus++ | | | | | | | | | | | | | | |
| Ganoderma | | | | | | | | | | | | | | |
| Chaetomium* | | | | | | | | | | | | | | |
| Cladosporium | 1 | | | 1 | 50 | 50 | 1 | 50 | 100 | | | | | |
| Curvularia | | | | | | | | | | | | | | |
| Epicoccum | | | | | | | | | | | | | | |
| Fusarium | | | | | | | | | | | | | | |
| Memnoniella* | | | | | | | | | | | | | | |
| Pithomyces | | | | | | | | | | | | | | |
| Rhizopus | | | | | | | | | | | | | | |
| Rusts | | | | | | | | | | | | | | |
| Myxomycetes++ | | | | | | | | | | | | | | |
| Stachybotrys* | | | | | | | | | | | | | | |
| Stemphilium | | | | | | | | | | | | | | |
| Torula | | | | | | | | | | | | | | |
| Trichoderma | | | | | | | | | | | | | | |
| Ulocladium | | | | | | | | | | | | | | |
| Other Colorless | | | | | | | | | | | | | | |
| Hyphal Fragments | | | | 1 | 50 | 50 | | | | | | | | |
| Total Fungi | 0 | <50 | | 2 | 100 | 100 | 1 | 50 | 100 | 1 | 50 | 100 | | |

Comment:

Note: Values may not appear to be additive due to rounding; detection limit may be reduced in some samples by background interference. Bipolaris++ = Bipolarus/Dreschlera/Exserohilium; Myxomycetes++ = Smuts/Myxomycetes/Periconia

*Denotes spores counted over 100% of the sample trace; Minimum detection limit / multiplier may vary from overall detection limit / multiplier.

Debris Rating Scale: 0 = No trace visible: 5 = Contiguous debris. Background debris levels greater than 3 indicate poor visibility for the analyst reading the slide, which can result in under-counting of some types of spores, particularly smaller spores such as Apergillus/Penicillium-like.

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> Analyst: Nick Ferrala, Microbiologist, BA, CIEC



Micro Diagnostic Services, LLC 349 Randall Rd, Unit 5 Lewiston, ME 04240

Client: Air Quality Management, Inc.

Project: 20-246 Gardiner

WO: 20113 Medium: Air-O-Cell Received: 4/24/2020 Reported: 4/27/2020

Method: ASTM D7391

Airborne Fungal Spore Analysis by Direct Optical Microscopy

info@microdiagnostic.net

| Lab Number: | | 20113 -9 | | | 20113 -10 | | | 20113 | -11 | | 20113 | -12 | | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------|-----|--------------------|------|------|--------------------|-----|------|--------------------|-----|--|--|
| Sample Description: | | A9 | | | A10 | | | A11 | | | A12 | | | |
| | | D Chief | | Won | nen's Lo | cker | City | Storage | Rm | City | Council | Rm | | |
| Air Volume Sampled (L): | | 75 | | | 75 | | | 75 | | | 75 | | | |
| Detection Limit (Ct./m3): | AND DESCRIPTION OF THE PARTY OF | 50 | | | 50 | | | 50 | | | 50 | | | |
| Background (0-5): | | 2+ | | | 2 | | | 2 | | | 2 | | | |
| Background (0-9). | Raw | 21 | I | Raw | | | Raw | | | Raw | | | | |
| Spore Genus/Category | Ct | Ct./m³ | % | Ct | Ct./m ³ | % | Ct | Ct./m ³ | % | Ct | Ct./m ³ | % | | |
| Alternaria | | | | | | | | | | | | | | |
| Ascospores | | | | | | | | | | | | | | |
| Aspergillus/Penicillium-like | 1 | 50 | 100 | | | | | | | 2 | 100 | 67 | | |
| Basidiospores | | | | | | | 2 | 100 | 100 | 1 | 50 | 33 | | |
| Bipolarus++ | | | | | | | | | | | | | | |
| Ganoderma | | | | | | | | | | | | | | |
| Chaetomium* | | | | | | | | | | | | | | |
| Cladosporium | | | | | | | | | | | | | | |
| Curvularia | | | | | | | | | | | | | | |
| Epicoccum | | | | | | | | | | | | | | |
| Fusarium | | | | | | | | | | | | | | |
| Memnoniella* | | | 100000000000000000000000000000000000000 | | | | | | | | | | | |
| Pithomyces | | | | | | | | | | | | | | |
| Rhizopus | | | | | | | | | | | | | | |
| Rusts | | | | | | | | | | | | | | |
| Myxomycetes++ | | | | | | | | | | | | | | |
| Stachybotrys* | | | | | | | | | | | | | | |
| Stemphilium | | | | | | | | | | | | | | |
| Torula | | | | | | | | | | | | | | |
| Trichoderma | | | | | | | | | | | | | | |
| Ulocladium | | | | | | | | | | | | | | |
| Other Colorless | | | | | | | | | | | | | | |
| Hyphal Fragments | | | | | | | | | | | | | | |
| Total Fungi | 1 | 50 | 100 | 0 | <50 | | 2 | 100 | 100 | 3 | 150 | 100 | | |

Comment:

Note: Values may not appear to be additive due to rounding; detection limit may be reduced in some samples by background interference. Bipolaris++ = Bipolarus/Dreschlera/Exserohilium; Myxomycetes++ = Smuts/Myxomycetes/Periconia

*Denotes spores counted over 100% of the sample trace; Minimum detection limit / multiplier may vary from overall detection limit / multiplier.

Debris Rating Scale: 0 = No trace visible; 5 = Contiguous debris. Background debris levels greater than 3 indicate poor visibilty for the analyst reading the slide, which can result in under-counting of some types of spores, particularly smaller spores such as Apergillus/Penicillium-like.

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Nick Ferrala, Microbiologist, BA, CIEC



Micro Diagnostic Services, LLC 349 Randall Rd, Unit 5

Lewiston, ME 04240

Client: Air Quality Management, Inc.

Project: 20-246 Gardiner

WO: 20113 Medium: Air-O-Cell Received: 4/24/2020 Reported: 4/27/2020

Method: ASTM D7391

Airborne Fungal Spore Analysis by Direct Optical Microscopy

| Lewiston, WE 04240 | , | | , i di | igai o | pore Air | idiyo | .c by . | 3110010 | peroc | | озсору | |
|------------------------------|----------------------------------------|--------------------|--------|--------|--------------------|-------|-----------------|----------------------------------------------------------------------------------------------------------------|----------|-----|--------------------|---|
| info@microdiagnostic.net | | | | í | | | 11 | | | I | | |
| Lab Number: | | 20113 | -13 | | | | | | | | | |
| Sample Description: | | A13 | | | | | | | | | | |
| | City | Front Of | fice | | | | | | | | | |
| Air Volume Sampled (L): | AND DESCRIPTION OF THE PERSON NAMED IN | 75 | | | Carrie Carrier | | and the same of | | | | | |
| Detection Limit (Ct./m3): | PERSONAL PROPERTY AND INC. | 50 | | | | | | | | | | |
| Background (0-5): | | 2 | | | | | | | - | | 100 | |
| Background (0-5). | - | 4 | | | | | - | | <u> </u> | | | |
| | Raw | 0113 | | Raw | 0113 | | Raw | 01 1 3 | | Raw | 04 43 | |
| Spore Genus/Category | Ct | Ct./m ³ | % | Ct | Ct./m ³ | % | Ct | Ct./m ³ | % | Ct | Ct./m ³ | % |
| Alternaria | | | | | | | | | | | | |
| Ascospores | | | | | | | | | | | | |
| Aspergillus/Penicillium-like | | | | | | | | | | | | |
| Basidiospores | | | | | | | | | | | | |
| Bipolarus++ | | | | | | | | NAME OF THE OWNER, WHITE OF THE OWNER, WHITE OF THE OWNER, WHITE OWNER, WHITE OWNER, WHITE OWNER, WHITE OWNER, | | | | |
| Ganoderma | | | | | | | | | | | | |
| Chaetomium* | | | | | | | | | | | | |
| Cladosporium | 1 | 50 | 50 | | | | | | | | | |
| Curvularia | | | | | | | | | | | | |
| Epicoccum | | | | | | | | | | | | |
| Fusarium | | | | | | | | | | | | |
| Memnoniella* | | | | | | | | | | | | |
| Pithomyces | | | | | | | | | | | | |
| Rhizopus | | | | | | | | | | | | |
| Rusts | | | | | | | | | | | | |
| Myxomycetes++ | | | | | | | | | | | | |
| Stachybotrys* | | | | | | | | | | | | |
| Stemphilium | | | | | | | | | | | | |
| Torula | | | | | | | | | | | | |
| Trichoderma | | | | | | | | | | | | |
| Ulocladium | | | | | | | | | | | | |
| Other Colorless | | | | | | | | | | | | |
| Hyphal Fragments | 1 | 50 | 50 | | | | | | | | | |
| Total Fungi | 2 | 100 | 100 | | | | | | | | | |

Comment:

Note: Values may not appear to be additive due to rounding; detection limit may be reduced in some samples by background interference. Bipolaris++ = Bipolarus/Dreschlera/Exserohilium; Myxomycetes++ = Smuts/Myxomycetes/Periconia

*Denotes spores counted over 100% of the sample trace; Minimum detection limit / multiplier may vary from overall detection limit / multiplier.

Debris Rating Scale: 0 = No trace visible; 5 = Contiguous debris. Background debris levels greater than 3 indicate poor visibilty for the analyst reading the slide, which can result in under-counting of some types of spores, particularly smaller spores such as Apergillus/Penicillium-like.

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> Analyst: Nick Ferrala, Microbiologist, BA, CIEC



Micro Diagnostic Services, LLC 349 Randall Rd, Unit 5

Lewiston, ME 04240 info@microdiagnostic.net

Client: Air Quality Management, Inc.

Project: 20-246 Gardiner

WO: 20113 Medium: Tape Lift Received: 4/24/2020 Reported: 4/27/2020

Method: IH-S01

Microscopic Examination Report - Fungi Semi-Quantitative Analysis

| Lab Number: | 20113 -14 | 20113 -15 | 20113 -16 | |
|------------------------------|------------------|------------------|-------------------|------------------|
| Sample Description: | T1 - Weight Rm | T2 - Hose Tower | T3 - Sleeping Qtr | |
| | Wall | Wall | Nightstand | |
| | | | | |
| Spore Genus/Category | Abundance Rating | Abundance Rating | Abundance Rating | Abundance Rating |
| Alternaria | | | | |
| Ascospores | | | Trace | |
| Aspergillus/Penicillium-like | | | | |
| Basidiospores | | | Trace | |
| Bipolarus++ | | | | |
| Bispora | | | | |
| Chaetomium | | | | |
| Cladosporium | *Moderate* | *High* | Trace | |
| Curvularia | | | | |
| Epicoccum | | | | |
| Fusarium | | | | |
| Memnoniella | | | | |
| Pithomyces | | | | |
| Rhizopus | | | 8 | N 0 4 |
| Rusts | | | | |
| Myxomycetes++ | | | Trace | |
| Stachybotrys | | | | |
| Stemphilium | | | | |
| Torula | | | | |
| Trichoderma | | | | |
| Ulocladium | | | | |
| Other Colorless | | | | |
| Hyphal Fragments | | | Trace | |

Comment:

Bipolaris++ = Bipolarus/Dreschlera/Exserohilium; Myxomycetes++ = Smuts/Myxomycetes/Periconia

Relative Abundance Rating, per area analyzed:

"---" = None; no occurrence within the area analyzed.

Trace = 1 to 10 spores / particles within the area analyzed.

Low = 11 to 100 spores / particles within the area analyzed.

Moderate = 101 to 1000 spores / particles within the area analyzed.

High = greater than 1000 spores / particles within the area analyzed.

Note that high spore and background levels may obscure other spore types / particles present at lower levels.

* * = Sample contains vegetative / spore-producing structures in association with spores.

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Analyst:

Nick Ferrala, Microbiologist, BA, CIEC