March 7, 2011

Mr. Leonard Costable
Director of Facilities
Mahopac Central School District
179 East Lake Boulevard
Mahopac, NY 10541

E Mail Address: costablel@mahopac.k12.ny.us

Telephone: (845) 628 3415

Re: Air Quality Screening Inspection Inspection of Gymnasium Austin Road Elementary School 390 Austin Rd, Mahopac, NY

Dear Mr. Costable:

At the request of the Mahopac Central School District (Mahopac), Louis Berger Group, Inc. (Berger) performed an air quality screening inspection at the above referenced address (hereafter referred to as "the School"). The purpose of the inspection was to assess conditions which could potentially impact classroom and/or School Indoor Air Quality (IAQ) through a combination of real time air testing and visual inspection methods within the above referenced class room. This site inspection was performed on January 19, 2011 by Berger Industrial Hygienist; Ms. Chawinie Miller

History

The gymnasium is located on the first floor and utilized for physical education. Based on discussions with Austin Road School Head Custodian Mr. Tom Wellington, Berger is not aware of any standard air quality issues related to odor, water infiltration or visible mold. Faculty reported complaints of heavy dust build up within the area, although no student complaints were reported.

Methodology

Berger performed real time testing utilizing a TSI, Inc. (TSI) Q-TRAC[®] IAQ Meter, measuring carbon dioxide, carbon monoxide, relative humidity and temperature. This meter was calibrated/field challenged immediately prior to the site visit as per manufacturer recommendations.

Analytical sampling for mold spores was performed utilizing Air O Cell cassettes fitted to Gast[®] high flow pumps. Samples were collected at a flow rate of approximately fifteen (15) liters per minute such that a total volume of one hundred fifty (150) liters was achieved. Two (2) samples were collected within the gymnasium with one (1) sample on the north and south sides of the room. In additional two (2) references samples were collected outdoors at the time of the site visit. These results are presented as an attachment at the end of this report for further review.

As a proactive measure, Berger also performed moisture screening of accessible wall and floor surfaces through the use of a Protimeter Moisture Measurement System (MMS). The Protimeter MMS provides percent moisture content values in wood or wood moisture equivalent (WME) and other non-conductive materials (e.g., masonry). The MMS displays the measurements on a

relative scale of 0-1,000. Additionally, the instrument indicates whether the material sampled is "dry", "at risk", or "wet". A "dry" result indicates that the material has a WME of $\geq 5\%$ but < 17%. An "at risk" measurement indicates that the material has a WME of $\geq 17\%$ but < 20%. A "wet" result indicates that the material has a WME of $\geq 20\%$.

Berger lastly performed a visual screening of the room for additional problems that may play a supporting role in creating conditions conducive to poor building IAQ, such as water damage, microbial growth or neighboring facility processes or activities.

Physical Survey Findings

Gymnasium

In general, the gymnasium coach's offices were noted to be clean and well kept. The main area of the gym was confirmed to be visibly impacted by dust on the floor, and particular horizontal surfaces (e.g., wall molding/mats). A large amount of materials were also noted within the storage areas. In addition, Berger also did not observe any plants or animals in this classroom that could potentially be responsible for common or potential IAQ odor or sensitivity complaints.

This room is equipped with three (3) packaged univent/HVAC units (installed in approximately 1967 and located within an upstairs HVAC room) which were inspected by Berger through the assistance of School Maintenance Staff. Maintenance staff removed HVAC/univent access covers (intake and mixing chamber) for inspection, which revealed that filters were noted to be in fair condition and changed at least three (3) times per year.

A thorough inspection of the ceiling plenum (within the coach's offices) was also performed in this room. The room is equipped with a dropped ceiling and finished with acoustical ceiling tiles, above which is a two (2) foot ceiling plenum space. No odors, rodent droppings, or mold were observed in this area, although two (2) water stained ceiling tile was noted within the Kitterage Coach's office. Small amounts of rodent droppings were noted within the ceiling plenum of both coach's offices.

An inspection of the main area of the gym and adjacent storage spaces was preformed as well. Berger noted large amounts of standing dust of surfaces within the main gym area. Berger noted two (2) areas of water damaged wood (approximately 5 square feet each) adjacent to the exit doors within the main gym area.

During inspection, Berger did note chemicals within the room; Zep disinfectant, expo cleaner, prestige and heaven sent air freshener. The storage of food was observed and a refrigerator was noted within the coach's office.

Representative moisture meter readings were taken within this room along the floor and walls at the base, 3 feet high and 6 feet high. Moisture mapping of this area did not reveal any elevated moisture readings.

Real Time Screening Findings

Please see below for a summary of data:

QTRAC IAQ Meter:

A QTRAC ® IAQ Meter was utilized to measure carbon monoxide, carbon dioxide, relative humidity and temperature. Data was collected for a twenty four (24) hour period and is summarized in the following table and discussed in the following sections.

Location	Temperature	Relative Humidity	Carbon Monoxide	Carbon Dioxide
	65.1 to 71.0°F	13.2 to 26.6 %	ND to 0.1 ppm	238 to 700 ppm
Coach's Office (Kitterage)	68.1°F (average)	20.6% (average)	0.0 ppm (average)	357 ppm (average)

ND = Not Detected

Please see guidelines on the following page summarizing OSHA, ACGIH and the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Standard 55-1992, Thermal Environmental Conditions for Human Occupancy and ASHRAE Standard 62-1999/2000, Ventilation for Acceptable Indoor Air Quality:

Comfort Parameter	Acceptable Value
Carbon Dioxide	ASHRAE: $CO_{2 \text{ (Outside Air)}} + 700 = 1,100 \text{ ppm}$ NIOSH Guideline: 1,000 ppm
Temperature	ASHRAE: 73.0°F – 79.0°F (Summer Season) ASHRAE: 68°F – 75.0°F (Winter Season) OSHA Technical Guideline: 68°F – 76.0°F (Year Round)
Relative Humidity	ASHRAE: 30% – 60% OSHA Technical Guideline: 20% – 60%
Carbon Monoxide	ACGIH TLV: 25 ppm; OSHA TWA: 50 ppm

A review of the data for carbon monoxide, temperature and carbon dioxide, indicate that averaged levels are within the applicable standards, although transient exceedance of carbon dioxide guidelines will occasionally occur in a classroom setting. A review of the relative humidity and temperature data indicated that levels were below OSHA and ASHRAE minimum *recommended* relative humidity and temperature values. Although this is the case, relative humidity conditions are reflective of outside conditions at this time of year and therefore should not be regarded as a cause for concern. Temperature readings below the OSHA and ASHRAE recommended minimum values occurred during period when the room was unoccupied.

Lighthouse Dust Meter

A Lighthouse dust meter was utilized to measure total dust, respirable dust (PM₁₀) and PM_{2.5}. Real time readings were collected within the main and coach's offices. Data is summarized in the following table and discussed in the following sections.

Gymnasium

Parameter	Peak (ug/m³)	Minimum (ug/m³)	Average (ug/m³)
Total Dust	466.43 or 0.466 mg/m ³	0.48 or 0.004 mg/m ³	46.15 or 0.046 mg/m ³
PM ₁₀	111. 23 or 0.111 mg/m ³	0.48 or 0.004 mg/m ³	19.57 or 0.019 mg/m ³
PM _{2.5}	8.68	0.37	4.22

ND = Not Detected above Minimum Detection Limit of Instrument

n/a = Not Applicable

Comfort Parameter	Acceptable Value
Total Dust (PNOC)	ACGIH TLV: 10 mg/m³; OSHA TWA: 15 mg/m³
Respirable Dust/PM ₁₀	ACGIH TLV: 3 mg/m ³ ; OSHA TWA: 5 mg/m ³ USEPA: 150 ug/m ³ (annualized mean)
PM _{2.5}	USEPA: 35 ug/m³ (24 Hour Period)

In summary, observed total particulate average concentrations did not exceed applicable United States Environmental Protection Agency (US EPA) limits for PM_{10} or $PM_{2.5}$ and Occupational Safety & Health Administration (OSHA) eight hour Time Weighted Average (TWA) limits. Therefore, Standards/Guidelines were not exceeded on this day.

Analytical Results/Mold Spores

At the request of the Mahopac School District Berger collected total mold spore samples did not reveal the presence of particular genera in concentrations that could indicate a concern as compared to outside air or other School classrooms. A copy of laboratory results and Chain of Custody are present at the end of this report in Attachment A.

Recommendations

Although the physical inspection and real time air sampling did not reveal any conditions of concern, and in order to promote good IAQ, Berger would like to offer the following recommendations:

- ➤ In an effort to promote good IAQ, Berger recommends the removal of the water damaged wooden floor (approximately 10 square feet) adjacent to the exit door in the main gym area using practices and procedures identified within the United States environmental Protection Agency Document "Mold remediation in schools and Commercial Buildings).
- ➤ Based on the visibly noticeable amounts of dust on the floor and elevated surfaces, Berger recommends a through cleaning of the gymnasium area to remove standing dust.
- ➤ Based in the visual inspection of the ceiling plenum, Berger recommends the removal of two (2) ceilings tile due to presence of water damage. Use of dust control procedures (e.g., misting of tile, placing immediately in a sealed plastic bag and disposing as contractor waste) is highly recommended. In addition, Berger recommends performing a records search to determine if affected materials in the work areas are asbestos containing. If so, these areas should be addressed as per applicable City, State and Federal guidelines. In addition, Berger recommends the removal of construction debris from ceiling tiles to prevent drop hazards.
- Ensure that the source of the leak responsible for the noted damaged to the ceiling tile are properly repaired.
- Remove rodent droppings from room ceiling plenum of both coach's offices as necessary as per guidance from the centers from Disease Control (CDC) located at http://www.cdc.gov/ncidod/diseases/ hanta/hps stc/stc clean.htm.
- Consider removal and storage of the excessive amount of materials identified in the storage area. Numerous surfaces allow for the build-up of dust which has the potential of becoming entrained in the air once disturbed.
- ➤ Based on the presence of food storage within the offices, Berger recommends the removal, and/or proper containerizing foodstuffs within the classroom. Please also ensure that an Integrated Pest Management program has been implemented at the School designed to limit access, foodstuffs or any other condition which may promote pest habitation on the property.
- Remove chemicals from the classroom if not approved for use. For approved chemicals, and as required by federal regulations; Berger recommends that an accessible copy of each Material Safety Data Sheet (MSDS) for each chemical be kept on site.
- ➤ Berger recommends the proper disposal of all chemicals not in compliance with Mahopac Central School District Policy.

If you have any questions concerning this information, please feel free to contact me at (212)-612-7991.

Sincerely,

LOUIS BERGER & ASSOCIATES, P.C.

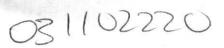
Chum Willer

Chawinie Miller Industrial Hygienist

C: J. Cupriks, R. Almonacy

Attachment

Attachment A



Environmental Microbiology Chain of Custody



EMSL Order Number(Lab Use Only):

Westmont, NJ 3 Cooper Street Westmont, NJ 08108 PHONE: 1-800-220-3675 FAX: (856) 858-4960

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Prominent M013 Sewage Cont Preservation Method	Mo26 Re amination in Buildings Mo27 My	creational Wa cotoxin Analy: Signat	ter Screen sis	Other See r:	Analytical Price Guide
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Environmental Microbiology Chain of Custody

EMSL Order Number(Lab Use Only):

Westmont, NJ 3 Cooper Street Westmont, NJ 08108 PHONE: 1-800-220-3675 FAX: (856) 858-4960

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
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Comments/Special Instructions: please call 646 660 1263 with any questions; please also e-mail cmiller@louisberger.com as well with results

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Controlled Document - Environmental Microbiology COC - EM1.0 - 11/23/2009

Page ___ of ___ Pages

Ears/ snasone7



307 West 38th Street New York, NY 10018

Phone: (212) 290-0051 Fax: (212) 290-0058 Web: http://www.emsl.com Email:manhattanlab@emsl.com

Attn:

The Louis Berger Group, Inc.

Customer ID: LOUI56

199 Water Street

Collected: 1/11/2011

23rd Floor

EMSL Order: 031102220

Customer ID: LOUI56

1/28/2011

 23rd Floor
 Received:
 1/28/2011

 New York, NY 10038
 Analyzed:
 1/29/2011

Proj: KT710G2

Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		031102220-0001 247-1 150 H.S RM 247			31102220-0002 247-2 150 H.S RM 247			031102220-0003 OWA-1 150 OUTSIE H.S	
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	1	21	33.3
Basidiospores	-	-	-	2	42	50	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	2	42	66.7
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	2	42	50	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	-	-	-	4	84	100	3	63	100
Hyphal Fragment	1	21	-	-	-	-	1*	7*	-
Insect Fragment	-	-	-	-	-	-	1*	7*	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	2	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless othewise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*" Denotes particles found at 300X. "." Denotes not detected. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

John McCauley, Laboratory Manager or Other Approved Signatory

031102220

LOUI56

1/11/2011



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

Phone: (212) 290-0051 Fax: (212) 290-0058 Email:manhattanlab@emsl.com Web: http://www.emsl.com

Attn:

EMSL Order: The Louis Berger Group, Inc. Customer ID: 199 Water Street Collected:

23rd Floor Received: 1/28/2011 New York, NY 10038 1/29/2011 Analyzed:

Proj: KT710G2

Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		031102220-0004 OWA-2 150 OUTSIE H.S		(31102220-0005 208-1 150 JSTIN RD RM 208		(031102220-0006 208-2 150 USTIN RD RM 208	1
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	2	42	66.7	2	42	66.7	1	21	50
Basidiospores	-	-	-	-	-	-	1	21	50
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	21	33.3	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	1	21	33.3	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	3	63	100	3	63	100	2	42	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	2	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless othewise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*" Denotes particles found at 300X. "-" Denotes not detected. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

John McCauley, Laboratory Manager or Other Approved Signatory



307 West 38th Street New York, NY 10018

Phone: (212) 290-0051 Fax: (212) 290-0058 Web: http://www.emsl.com Email:manhattanlab@emsl.com

Attn:

23rd Floor

The Louis Berger Group, Inc. 199 Water Street

New York, NY 10038

EMSL Order: 031102220
Customer ID: LOUI56
Collected: 1/11/2011
Received: 1/28/2011

Analyzed: 1/29/2011

Proj: KT710G2

Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	OWA-3 150			031102220-0008 OWA-4 150 OUTSIDE AUSTIN RD			G		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	- '	-	-	-	-	· -
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	-	None Detected	-	-	-	-	-	None Detected	-
Hyphal Fragment	-	-	-	1	21	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless othewise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. """ Denotes particles found at 300X. "." Denotes not detected. EMSL maintains liability limited to cost of anaysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

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Attn:

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New York, NY 10038

EMSL Order: 031102220
Customer ID: LOUI56
Collected: 1/11/2011
Received: 1/28/2011

Analyzed: 1/29/2011

Proj: KT710G2

Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	COUCH OFFICE 150				031102220-0011 OWA-5 150 OUTSIDE AUSTIN RD			031102220-0012 OWA-6 150 OUTSIDE AUSTIN RD		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m³	% of Total	
Alternaria	-	-	-	-	-	-	-	-	-	
Ascospores	-	-	-	-	-	-	-	-	-	
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-	
Basidiospores	-	-	-	-	-	-	-	-	-	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	-	-	-	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	-	-	-	
Pithomyces	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis	-	-	-	-	-	-	-	-	-	
Stachybotrys	-	-	-	-	-	-	-	-	-	
Torula	-	-	-	-	-	-	-	-	-	
Ulocladium	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Total Fungi	-	None Detected	-	-	None Detected	-	-	None Detected	-	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-	
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-	
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	1	-	-	1	-	

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

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Attn:

23rd Floor

The Louis Berger Group, Inc. 199 Water Street

New York, NY 10038

EMSL Order: 031102220 Customer ID: LOUI56 Collected: 1/11/2011 Received: 1/28/2011

1/29/2011 Analyzed:

Proj: KT710G2

Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	: 217-1 : 150				031102220-0014 217-2 150 RM 217		ου	D	
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	- '	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	1	21	50
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	1	21	33.3	-	-	-
Cladosporium	1	21	100	2	42	66.7	1	21	50
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	1	21	100	3	63	100	2	42	100
Hyphal Fragment	-	-	-	1	21	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	1	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

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031102220

LOUI56

1/11/2011

1/28/2011

1/29/2011



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

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Attn:

The Louis Berger Group, Inc. 199 Water Street 23rd Floor

New York, NY 10038

Proj: KT710G2

Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)

EMSL Order:

Customer ID:

Collected:

Received:

Analyzed:

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		031102220-0016 OWA-8 150 JTSIDE AUSTIN RD			031102220-0017 22-1 150 RM 22			031102220-0018 22-2 150 RM 22		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	
Alternaria	-	-	-	-	-	-	-	-	-	
Ascospores	-	-	-	-	-	-	-	-	-	
Aspergillus/Penicillium	-	-	-	-	-	-	1	21	100	
Basidiospores	-	-	-	-	-	-	-	-	-	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	-	-	-	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	-	-	-	
Pithomyces	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis	-	-	-	-	-	-	-	-	-	
Stachybotrys	-	-	-	-	-	-	-	-	-	
Torula	-	-	-	-	-	-	-	-	-	
Ulocladium	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Total Fungi	-	None Detected	-	-	-	-	1	21	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	1	21	-	-	-	-	
Analyt. Sensitivity 600x	-	21	-	-	21	-	=	21	-	
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-	
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	2	-	=	2	-	

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

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John McCauley, Laboratory Manager or Other Approved Signatory

031102220

1/11/2011

1/28/2011

1/29/2011

LOUI56



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

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Attn:

EMSL Order: The Louis Berger Group, Inc. Customer ID: 199 Water Street Collected: 23rd Floor

Received: New York, NY 10038 Analyzed:

Proj: KT710G2

Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	031102220-0019 OWA-9 150			031102220-0020 OWA-10 150 OUTSIDE AUSTIN RD			031102220-0021 MAIN-1 150 MAIN OFFICE AUSTIN RD		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	1	21	100	3	63	75
Basidiospores	-	-	-	-	-	-	1	21	25
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	21	100	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	1	21	100	1	21	100	4	84	100
Hyphal Fragment	-	-	-	1	21	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	2	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

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Attn:

The Louis Berger Group, Inc. 199 Water Street

23rd Floor

New York, NY 10038

EMSL Order: 031102220
Customer ID: LOUI56
Collected: 1/11/2011

Received: 1/28/2011 Analyzed: 1/29/2011

Proj: KT710G2

Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	031102220-0022 MAIN-2 150			031102220-0023 OWA-11 150 OUTSIDE AUSTIN RD			031102220-0024 OWA-12 150 OUTSIDE AUSTIN RD			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	
Alternaria	-	-	-	-	-	-	-	-	-	
Ascospores	-	-	-	-	-	-	-	-	-	
Aspergillus/Penicillium	2	42	100	-	-	-	-	-	-	
Basidiospores	-	-	-	-	-	-	-	-	-	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	1	21	100	1	21	100	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	-	-	-	
Pithomyces	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis	-	-	-	-	-	-	-	-	-	
Stachybotrys	-	-	-	-	-	-	-	-	-	
Torula	-	-	-	-	-	-	-	-	-	
Ulocladium	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Total Fungi	2	42	100	1	21	100	1	21	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-	
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-	
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	2	-	-	1	-	-	1	-	

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

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Attn:

The Louis Berger Group, Inc.

199 Water Street
23rd Floor

New York, NY 10038

EMSL Order: 031102220
Customer ID: LOUI56
Collected: 1/11/2011
Received: 1/28/2011

Analyzed: 1/29/2011

Proj: KT710G2

Test Report: Air-O - Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (EMSL Method 05-TP-003)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		031102220-0025 FB1 0 FIELD BLANK	Fungai Spoi	(031102220-0026 FB2 0 FIELD BLANK			·	
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m ³	% of Total		-	-
Alternaria	-	-	-	-	-	-		-	
Ascospores	-	-	-	-	-	-			
Aspergillus/Penicillium	-	-	-	-	-	-			
Basidiospores	-	-	-	-	-	-			
Bipolaris++	-	-	-	-	-	-			
Chaetomium	-	-	-	-	-	-			
Cladosporium	-	-	-	-	-	-			
Curvularia	-	-	-	-	-	-			
Epicoccum	-	-	-	-	-	-			
Fusarium	-	-	-	-	-	-			
Ganoderma	-	-	-	-	-	-			
Myxomycetes++	-	-	-	-	-	-			
Pithomyces	-	-	-	-	-	-			
Rust	-	-	-	-	-	-			
Scopulariopsis	-	-	-	-	-	-			
Stachybotrys	-	-	-	-	-	-			
Torula	-	-	-	-	-	-			
Ulocladium	-	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-	-			
Zygomycetes	-	-	-	-	-	-			
Total Fungi	-	No Trace	-	-	No Trace	-			
Hyphal Fragment	-	-	-	-	-	-			
Insect Fragment	-	-	-	-	-	-			
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	0	-	-	0	-	-	-	
Analyt. Sensitivity 300x	-	0*	-	-	0*	-			
Skin Fragments (1-4)	-	-	-	-	-	-			
Fibrous Particulate (1-4)	-	-	-	-	-	-			
Background (1-5)	-	-	-	-	-	-			

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum

Myxomycetes++ = Myxomycetes/Periconia/Smut

Samples analyzed by EMSL Analytical, Inc. 307 West 38th Street, New York NY AIHA-LAP, LLC--EMLAP Lab 102581

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless othewise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. """ Denotes particles found at 300X. "." Denotes not detected. EMSL maintains liability limited to cost of anaysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

John McCauley, Laboratory Manager or Other Approved Signatory