



Soil and Land Use Technology, Inc.
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Telephone: (301) 595-3783
www.salutinc.com

June 20, 2019

Prince George's County Public Schools (PGCPS)
Environmental Safety Office
13306 Old Marlboro Pike
Upper Marlboro, MD 20772

Attention: Alex Baylor
alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey
Gwynn Park Middle School
8000 Dyson Road
Brandywine, MD 20613

Mr. Baylor:

On May 24, 2019, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Gwynn Park Middle School, a property maintained by Prince George's County Public Schools (PGCPS) located at 8000 Dyson Rd., Brandywine, MD 20613. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

Methodology

The IAQ evaluation conducted by SaLUT included a visual assessment, IAQ instrumentation screening, and a collection of interior air samples for mold in representative locations throughout the building. Additionally, one building exterior environmental air sample was taken for comparison.

Air-borne fungal spore samples were collected on *Air-O-Cell* cassettes using a Buck BioAire calibrated pump. The air samples were taken between three and five feet from the ground. In tandem with collecting mold samples, real-time readings for carbon dioxide, carbon monoxide, temperature and relative humidity were collected using a Fluke 975 Air Meter in representative areas within the facility. A MiniRAE 3000-photoionization detector (PID) was used to measure total volatile organic compounds (TVOC).

Respirable particulate in air (size classes PM_{2.5}μ and PM₁₀μ) was measured using the Particles Plus 8306 Handheld Particle Counter which was calibrated prior to sampling. The fungal spore air samples were delivered to EMSL Analytical, Inc. of Beltsville, Maryland for analysis. Fungal spores and particulates in air samples were analyzed by Optical Microscopy (methods EMSL 05-TP-003 and ASTM D7391). The sample chain-of-custody and laboratory reports are attached.

Observations

The table below summarizes the main observations from the IAQ survey at Gwynn Park Middle School, visited on May 24, 2019.

Table 1-Observations

Location	Summary of Observations 5-24-2019
Cafeteria	No visual signs of microbial growth on ceiling tiles, and no odor; No visible dust on floor/other furniture surfaces.
Teacher’s Lounge	No visual signs of microbial growth on ceiling tiles, and no odor; No visible dust on floor/other furniture surfaces.
Gymnasium	No visual signs of microbial growth on ceiling tiles, and no odor; No visible dust on floor/other furniture surfaces.
Classroom 120	No visual signs of microbial growth on ceiling tiles, and no odor; No visible dust on floor/other furniture surfaces.
Classroom 203	No visual signs of microbial growth on ceiling tiles, and no odor; No visible dust on floor/other furniture surfaces.
Classroom 205	No visual signs of microbial growth on ceiling tiles, and no odor; No visible dust on floor/other furniture surfaces.
Majority of Classrooms throughout the School	No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces; Central HVAC system.

Measurements of Indoor Environmental Quality Parameters

Table 2 depicts a summary of average measurements of comfort parameters and respirable particulates.

Temperature

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year round acceptable temperatures in Standard 55-2010 *Thermal Environmental Conditions for Human Occupancy*. The winter comfort range is 20 to 24°C (68 to 75°F) and 23 to 26°C (73 to 79°F) is the summer comfort range. The temperature readings were within the ASHRAE recommended ranges in the representative spaces with the exception of some readings which were slightly lower than the ASHRAE comfort level.

Relative Humidity (RH)

RH is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE Standard 62.1-2010 *Ventilation for Acceptable Indoor Air Quality* recommends a maximum indoor RH of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. The RH readings were lower than the ASHRAE recommended ranges in the representative areas.

Carbon Dioxide (CO₂)

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO₂ upper limit is the prevailing outdoor CO₂ concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (building exterior) CO₂ concentration was approximately 610 ppm therefore indoor concentrations should not exceed approximately 1,310 ppm (700 + 610). The maximum average interior CO₂ concentration detected was 858 ppm in the Classroom 120, a range within the ASHRAE recommendations, per Table 2 below.

Carbon Monoxide (CO)

CO is a colorless and odorless gas that is produced by the incomplete combustion of carbon containing fuels. Oil, gasoline, diesel fuels, wood, coke, and coal are major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm, per Table 2 below.

Respirable Particulates

Direct reading particulate monitoring did not identify a condition of concern. Particulate concentrations for two mass ranges with EPA ambient air quality guidelines (PM_{2.5} and PM₁₀) were below their respective NAAQS levels. On May 24, 2019, the highest average PM_{2.5} concentration during the monitoring period was 0.006 mg/m³ (6 µg/m³) in the Gymnasium. This is compared to the NAAQS primary standard for PM_{2.5} of 12 µg/m³ annual mean. The highest average PM₁₀ concentration during the same period was 0.054 mg/m³ (54 µg/m³) in the Gymnasium. This is compared to NAAQS standard for PM₁₀ of 150 µg/m³ 24 hour average.

Total Volatile Organic Chemicals (TVOC)

LEED's standard of 500 µg/m³ for TVOC (ANSI/ASHRAE Standard 62.1-2010) concentrations per the instrument's level of detection for a healthy commercial building were used as the standard for TVOCs for this survey. Concentrations below this value can be considered as "background levels" and, at such low concentrations, they are extremely unlikely to cause any adverse health conditions to the occupants. Generally, values below 3000 µg/m³ are unlikely to cause more than mild irritation or headaches,

but to date no recognized industry standard has been established for TVOCs. Perfumes, colognes, and air fresheners as well as certain cleaning chemicals can all cause temporary increases in TVOC readings. TVOC readings cannot be used to establish OSHA limits on specific VOCs or be attributed to specific compounds.

**Table 2: Gwynn Park Middle School Instrumental Screening Levels
May 24, 2019**

Sample Location	Temp °F	RH%	CO ppm	CO ₂ ppm	PM 2.5 mg/m ³	PM 10 mg/m ³	TVOC ppm
Standards	ASHRAE 73 to 79°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,310	NAAQS 0.012	NAAQS 0.150	1.0
Teacher's Lounge	72.3	52.5	0	732	0.003	0.012	0
Gymnasium	72.7	52.8	0	680	0.006	0.054	0.1
Cafeteria	73.2	53.0	0	710	0.004	0.027	0
Classroom 120	71.6	56.9	1	858	0.001	0.016	0
Classroom 203	71.6	53.9	0	761	0.003	0.029	0.1
Classroom 215	73.4	52.8	0	602	0.001	0.016	0
Exterior of the Building- Next to the Entrance	83	72.1	0	610	0.017	0.083	0

PM - Particulate Matter size
°F - Degrees Fahrenheit
CO - Carbon Monoxide
ppm - parts per million

µg/m³ - micrograms per cubic meter
RH% - % Relative Humidity
CO₂ - Carbon Dioxide
* - Summer Comfort Range

Mold-in-Air Samples

There are no definitive regulations or standardized guidelines for addressing airborne mold in an indoor setting. If building systems (ventilation, envelope) are functioning properly, the indoor population profile should mimic what is encountered outdoors and the concentrations should be below the outdoor (building exterior) environmental sample levels.

Tables 3 summarizes airborne mold spore sampling results and locations. On May 24, 2019, total mold counts in representative samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

**Table 3: Gwynn Park Middle School - Measurements of Mold-in-Air Samples
May 24, 2019**

Spore Types	Classroom 120	Classroom 203	Classroom 215	Teacher's Lounge
<i>Alternaria (Ulocladium)</i>	10*	-	-	-
<i>Ascospores</i>	100	480	300	200
<i>Aspergillus/Penicillium</i>	100	-	-	40*
<i>Basidiospores</i>	520	700	570	400
<i>Bipolaris++</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Cladosporium</i>	520	100	200	300
<i>Curvularia</i>	-	-	-	-
<i>Epicoccum</i>	-	-	-	-
<i>Fusarium</i>	-	-	-	-
<i>Ganoderma</i>	-	-	-	-
<i>Myxomycetes++</i>	10*	-	10*	-
<i>Pithomyces++</i>	-	-	-	-
<i>Rust</i>	-	-	-	-
<i>Scopulariopsis/Microascus</i>	-	-	-	-
<i>Stachybotrys/Memnoniella</i>	-	-	-	-
<i>Unidentifiable Spores</i>	-	-	-	-
<i>Zygomycetes</i>	-	-	-	-
<i>Spegazzinia</i>	-	-	-	-
<i>Hyphal Fragment</i>	40	-	-	-
<i>Insect Fragment</i>	-	-	-	-
<i>Pollen</i>	-	-	-	-
Total Fungi	1,260	1,280	1,080	940

*Spore Counts per cubic meter of air (Counts/m³).

++Includes other spores with similar morphology.

Table 3: Gwynn Park Middle School - Measurements of Mold-in-Air Samples continued

May 24, 2019

Spore Types	Gymnasium	Cafeteria	Outside Exterior	Field Blank
<i>Alternaria (Ulocladium)</i>	-	-	40	-
<i>Ascospores</i>	100	40	2,900	-
<i>Aspergillus/Penicillium</i>	-	-	-	-
<i>Basidiospores</i>	700	300	5,460	-
<i>Bipolaris++</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Cladosporium</i>	90	-	3,000	-
<i>Curvularia</i>	-	-	40	-
<i>Epicoccum</i>	-	-	10*	-
<i>Fusarium</i>	-	-	-	-
<i>Ganoderma</i>	-	-	-	-
<i>Myxomycetes++</i>	-	-	-	-
<i>Pithomyces++</i>	-	-	-	-
<i>Rust</i>	-	-	-	-
<i>Scopulariopsis/Microascus</i>	-	-	-	-
<i>Stachybotrys/Memnoniella</i>	-	-	-	-
<i>Unidentifiable Spores</i>	-	-	-	-
<i>Zygomycetes</i>	-	-	-	-
<i>Spegazzinia</i>	-	10*	-	-
<i>Hyphal Fragment</i>	40	-	-	-
<i>Insect Fragment</i>	-	-	-	-
<i>Pollen</i>	-	10*	740	-
Total Fungi	890	350	11,450	No Trace

*Spore Counts per cubic meter of air (Counts/m³).

++Includes other spores with similar morphology.

Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO₂, and CO levels) and respirable particulates in the representative areas conform to ASHRAE and/or NAAQS guidelines with the exception of some temperature readings which were slightly lower than the ASHRAE comfort level. On May 24, 2019, total mold counts in representative area samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations, indicating no amplified mold growth.

Recommendations

Based on the observations, mold spore results, and the results of the indoor air quality parameters tested, we have no recommendations at this time.



Page 7 of 7

Thank you for the opportunity to provide industrial hygiene services for the PGCPs. If you have any questions, please contact me at 301.595.3783.

Sincerely,

A handwritten signature in black ink that reads 'Jayatilake'.

Chaminda Jayatilake, PE, CIH, CSP, CHMM
Certified Industrial Hygienist
Soil and Land Use Technology Inc. (SaLUT)

Attachment

Attachment - Mold Spore Sample Analytical Results and Chain-of-Custody Forms

Attachment

Mold Spore Sample Analytical Results and Chain-of-Custody Forms



EMSL Analytical, Inc.

528 Mineola Avenue Carle Place, NY 11514
Tel/Fax: (516) 997-7251 / (516) 997-7528
<http://www.EMSL.com> / carleplacelab@emsl.com

EMSL Order: 061910214
Customer ID: SALU50
Customer PO:
Project ID:

Attn: Indika Jayatilake
SaLUT
1818 New York Avenue, NE
Suite 218A
Washington, DC 20002
Project: PGCPs IAQ/19-035 Gwynn Parks MS, 8000 Dyson Road Brandywine MD, 20613

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 05/24/2019
Received: 05/25/2019
Analyzed: 05/30/2019

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	061910214-0001			061910214-0002			061910214-0003		
Client Sample ID:	27950926			27951947			27951945		
Volume (L):	75			75			75		
Sample Location	1st Fl. Room 120 Area			1st Fl. Teacher's Lounge Area			1st Fl. Gymnasium		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	1*	10*	0.8	-	-	-	-	-	-
Ascospores	3	100	7.9	4	200	21.3	3	100	11.2
Aspergillus/Penicillium	3	100	7.9	3*	40*	4.3	-	-	-
Basidiospores	12	520	41.3	9	400	42.6	16	700	78.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	12	520	41.3	6	300	31.9	2	90	10.1
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1*	10*	0.8	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	32	1260	100	22	940	100	21	890	100
Hyphal Fragment	1	40	-	-	-	-	1	40	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	2	-
Fibrous Particulate (1-4)	-	2	-	-	1	-	-	2	-
Background (1-5)	-	2	-	-	1	-	-	2	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

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 otherwise 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. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. 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.

Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA-LAP, LLC--EMLAP Accredited #102344

Initial report from: 06/03/2019 14:32:47

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



EMSL Analytical, Inc.

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Phone: (301) 595-3783
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Collected: 05/24/2019
Received: 05/25/2019
Analyzed: 05/30/2019

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location	061910214-0004 27951943 75 1st Fl. Cafeteria Area			061910214-0005 27951929 75 2nd Fl. Room 215 Area			061910214-0006 27951931 75 2nd Fl. Room 203 Area		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	40	11.4	6	300	27.8	11	480	37.5
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	7	300	85.7	13	570	52.8	16	700	54.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	4	200	18.5	3	100	7.8
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1*	10*	0.9	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Spegazzinia	1*	10*	2.9	-	-	-	-	-	-
Total Fungi	9	350	100	24	1080	100	30	1280	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	1*	10*	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	2	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	2	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

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Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 05/24/2019
Received: 05/25/2019
Analyzed: 05/30/2019

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	061910214-0007			061910214-0008		
Client Sample ID:	27951927			27951937		
Volume (L):	75			Field Blank		
Sample Location	Outside EV Sample			Field Blank		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	1	40	0.3	-	-	-
Ascospores	66	2900	25.3	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-
Basidiospores	125	5460	47.7	-	-	-
Bipolaris++	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-
Cladosporium	69	3000	26.2	-	-	-
Curvularia	1	40	0.3	-	-	-
Epicoccum	1*	10*	0.1	-	-	-
Fusarium	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-
Rust	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-
Total Fungi	263	11450	100	0	0	-
Hyphal Fragment	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-
Pollen	17	740	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	0	-
Analyt. Sensitivity 300x	-	13*	-	-	0*	-
Skin Fragments (1-4)	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	2	-	-	-	-
Background (1-5)	-	2	-	-	-	-

061910214-0008 - Not Submitted

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

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EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS + TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

061910214

PHONE:

FAX:

Company Name: SalUT Inc.		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 1818 New York Ave NE Suite 231		Third Party Billing requires written authorization from third party	
City: Washington	State/Province: DC	Zip/Postal Code: 20002	Country: USA
Report To (Name): Indika Jayatillake		Telephone #: 301-595-3783	
Email Address: ijayatillake@salutinc.com		Fax #:	Purchase Order:
Project Number/Location: PGCPS IAQ/19-035 Gwynn Park MS		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	

Location Address: 8000 Dyson Road Brandywine MD, 20613 Connecticut Samples: Commercial Residential

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

Sterile, Sodium Thiosulfate Preserved Bottle Used: Biocide Used in Source (specify):

Public Water Supply Samples: Note: All results may automatically be reported to DOH if required by state.

Turnaround Time (TAT) Options * - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

Microbiology Test Codes			
M001 Air-O-Cell	M174 MoldSnap	M024 Pseudomonas aeruginosa (MFT*)	M115 Sewage Screen - Water (P/A***)
M030 Micro 5	M032 Allergenco-D	M015 Heterotrophic Plate Count	M116 Sewage Screen - Water (MPN**)
M041 Fungal Direct Examination		M017 Total Coliform & E. coli (Colilert P/A***)	M117 Sewage Screen - Swab (P/A***)
M169 Pollen ID & Enumeration		M018 Total Coliform & E. coli (MFT*)	M013 Sewage Screen - Swab (MFT*)
M280 Dust Characterization Level-1		M114 Total Coliform & E. coli Enumeration (Colilert MPN**)	M133 Methicillin-resistant Staph. aureus (MRSA)
M281 Dust Characterization Level-2		M019 Fecal Coliform (MFT*)	M031 Rapid-growing non-TB Mycobacteria Detection & Enumeration
M005 Viable Fungi- Air Samples (Genus ID & Count)		M020 Fecal Streptococcus (MFT*)	M014 Endotoxin Analysis
M006 Viable Fungi- Air Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count)		M029 Enterococci (MFT*)	M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)
M007 Culturable fungi - Surface Samples (Genus ID & Count)		M129 Enterococci (Enterolert P/A***)	Other See Analytical Price Guide
M008 Culturable fungi - Surface Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count)		M180 Real Time qPCR-ERMI 36 Panel	Legionella Analysis Please use EMSL Legionella COC
M009 Bacteria Culture Gram Stain & Count		M025 Sewage Screen -Water (MFT*)	
M010 Bacteria Count & ID - 3 Most Prominent			
M011 Bacteria Count & ID - 5 Most Prominent			
M012 Pseudomonas aeruginosa (P/A***)			

*MFT= Membrane Filtration Technique
**MPN= Most Probable Number
***P/A= Presence/Absence

Name of Sampler: **Dung Nguyen** Signature of Sampler:

Sample #	Sample Location/Description	Sample Type	Potable/NonPotable (only for waters)	Test Code	Volume/Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
27950926	1st Fl. Room 120 area	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	5/24/2019	
27951947	1st Fl. Teacher's Lounge area	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L		
27951945	1st Fl. Gymnasium area	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L		
27951943	1st Fl. Cafeteria area	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L		
27951929	2nd Fl. Room 215 area	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L		
27951931	2nd Fl. Room 203 area	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L		

Client Sample # (s): _____ Total # of Samples: 8 Samples Received Chilled? Yes / No

Relinquished (Client): Date: _____ Time: _____

Received (Lab): Date: 5/25/19 Time: 11:52 AM

Comments/Special Instructions:

92:6 HW 08 14W 61

Rcvd 5/30/19 @ 9:26 AM

Daniel Arham
5/30/19

