

Lindenhurst UFSD

Alleghany Elementary School - Rooms 121, 123 and 125

ENVIROSCIENCE CONSULTANTS, INC.

**2150 SMITHTOWN AVE. • RONKONKOMA, NY 11779 • (631) 580-3191
344 MAIN ST., SUITE 101 • MT. KISCO, NY 10549 • (914) 666-8933**

WWW.ENVIROHEALTH.ORG

Job # 7867

PROJECT SUMMARY

ALLEGHANY ELEMENTARY SCHOOL - ROOMS 121, 123 AND 125

Prepared for: LINDENHURST UFSD
John Marek
McKenna Administration Building
Lindenhurst, NY 11757

Prepared by: ENVIROSCIENCE CONSULTANTS, INC.


Project Manager: 
_____ **John Driscoll**

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1.0 Executive Summary

On November 18, 2011, Enviroscience Consultants, Inc. performed a microbial spore trap sampling and indoor air quality assessment at the Alleghany Elementary School at 250 S. Alleghany Avenue in the Lindenhurst Union Free School District in Lindenhurst, NY. The purpose of this sampling was to identify what impact, if any, indoor air quality might be having on the health and/or comfort of the room occupants.

Results of sampling and inspection indicate normal concentrations of common microbial organisms.

2.0 Methods & Results

Spore trap testing for mold and other allergens was conducted to identify airborne spore levels in areas of concern using spore traps. Air samples were collected using allergen collection media and high-volume electric sampling pumps. These samples undergo laboratory analysis for mold types and concentrations through microscopy as the analytical method.

There are currently no regulatory guidelines outlining 'safe' or 'unsafe' levels of airborne mold. An individual's reaction to airborne mold ultimately depends upon that individual's sensitivity, allergies, and general health. Results of sampling indoors were 320 - 1227 CTS/m³. Ambient sampling results were 1227 CTS/m³.

Generally speaking, total concentrations for indoor airborne microbial spores of common environmental organisms should not exceed those found outdoors, or 3,000 CTS/m³. However, buildings with little or no ventilation (HVAC) filtration may have airborne fungal counts higher than those outdoors. Results of sampling within complaint areas should be higher than those in non-complaint areas, if fungal growth is an issue. A comparison of fungal spore type, indoor versus outdoor, and complaint versus non-complaint areas is also made. All should generally be similar. Results strikingly different may indicate areas of concern with respect to fungal growth.

Marker or signature fungal spores may also indicate cause for concern. *Chaetomium*, *Stachybotrys*, *Memnoniella*, *Ulocladium*, and *Eurotium* may be associated with water damage. *Chaetomium*, *Stachybotrys*, *Memnoniella*, and *Ulocladium* thrive in moisture-rich environments. *Eurotium* indicates persistent high relative humidity, poor ventilation and condensation problems. Spores and structures of these fungi may also come from outdoors, but the probability is low. *Aspergillus/Penicillium-like* (or *Asp/Pen-like*) spores are common indoors and outdoors at ground level. If the prevalence of *Aspergillus/Penicillium-like* spores indoors is consistently higher than those outdoors, then the difference may be indicative of a water-damaged environment.

3.0 Conclusion

Results of sampling indicate normal concentrations of common microbial organisms.

There are no further recommendations for corrective actions as of the date of sampling.

As with any air quality tests, the results of Enviroscience's sampling are relevant to the sampling period and the parameters tested for and are only indicators of overall conditions in the area of sampling. Standardized measurements and biological markers of exposure to mold are largely unknown. Because of this it is not possible to determine 'safe' or 'unsafe' levels of exposure for people in general. An individual's reaction to mold ultimately depends upon that individual's sensitivity and allergies and should be taken into account when assessing indoor air quality.

Appendix A

Microbial Air Sample Results

Enviroscience
 2150 Smithtown Avenue
 Ronkonkoma NY 11779
 631-580-3191

Job Number 11112220
 Date Collected: 11/18/2011
 Date Received: 11/22/2011 11:53:11 AM
 Date Analyzed: 11/23/2011

Site: ALLEGHANY ELEM SCHOOL

SPORE TRAP STANDARD								
Accession #	11112220-001		11112220-002		11112220-003		11112220-004	
Sample ID #	1		2		3		4	
Sample Location	1-ROOM 121		2-ROOM 123		3-ROOM 125		4-O/S AMBIENT	
Air Volume (Liters)	75		75		75		75	
Results	Raw Ct	Cts/m ³	Raw Ct	Cts/m ³	Raw Ct	Cts/m ³	Raw Ct	Cts/m ³
Alternaria	-	-	-	-	-	-	-	-
Ascospores	-	-	1	53	-	-	-	-
Asp Pen like spores	6	320	9	480	4	213	2	107
Basidiospores	3	160	2	107	1	53	6	320
Chaetomium	-	-	-	-	-	-	1	53
Cladosporium	2	107	10	533	-	-	9	480
Curvularia/Pithomyces	-	-	-	-	-	-	-	-
Hyphae	1	53	-	-	-	-	2	107
Periconia/Smut/Myxo	2	107	1	53	1	53	3	160
Stachybotrys	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-
Unspecified	-	-	-	-	-	-	-	-
Total count	14	747	23	1227	6	320	23	1227
Epithelial cells	88	4693	107	5707	19	1013	-	-
Fibrous glass	-	-	-	-	-	-	-	-
Insect fragments	-	-	-	-	-	-	-	-
Other fibers	4	213	6	320	1	53	-	-
Pollens	1	53	-	-	-	-	1	53
Background	-	Light	-	Light	-	Light	-	Light
Minimum Detection Limit	1	53	1	53	1	53	1	53

Comments:

Sample received in acceptable condition unless otherwise stated.
 Stated results apply to above sample only.
 Report Date/Time 11/23/2011 2:30:21 PM



Cathy Pepe
 Supervisor

Chain of Custody Analysis Request Form

ENVIROSCIENCE CONSULTANTS, INC

2150 Smithtown Ave
 Ronkonkoma, NY 11779
 Phone (631) 580-3191
 Fax (631) 580-3195

Project #: 1867

Lab: Pure Earth Lab 7184 North Park Drive Pennsauken, NJ 08109 (856) 486-1177		Sampling Site Address and/or Project: Alleghany Elem School 250 S. Alleghany Ave WINDENHURST NY			Indicate Analysis Requested
Sampled By: Ed IVANS		# of Samples in Shipment: 4	Date of Sample Shipment: 11/21/11		

Lab Use Only	Sample No.	Station Location Sample ID	Matrix (W) Water (S) Soil (A) Air (SL) Sludge (O) Other					Flow Rate	Min	Sampling Date/Time	Spore Trap	CMBF				
			W	S	A	SL	O									
Enviroscience Cons PA 1112220-001	1	Rm 121			✓			15	5	11/18/11 15:50	✓					
Enviroscience Cons PA 1112220-002	2	Rm 123			✓					11/18/11 15:57	✓					
Enviroscience Cons PA 1112220-003	3	Rm 125			✓					11/18/11 16:05	✓					
Enviroscience Cons PA 1112220-004	4	o/s Ambient			✓					11/18/11 16:22	✓					
		11/22/2011														
		Enviroscience Consulta														
		11112220														
		SPA														
		11112220-001 - 004 (4)														

Released by: Ed IVANS	Date/Time: 11/18/11	Delivery Method UPS	Received By: mmorabak	Company: Pure Earth	Date/Time: 11-22-11 10AM	Condition: ok
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Comments: #24 TAT	Reporting Information: gin@envirohealth.org jbaltz@envirohealth.org	Billing Information: jbaltz@envirohealth.org
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