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MEMBERS OF:



**PROACTIVE HVAC MAINTENANCE  
CLOSING REPORT  
FAWN AREA ELEMENTARY SCHOOL  
08/26/12**

**PROJECT LOCATION:  
377 MAIN STREET  
FAWN GROVE, PA 17321-9545**

**PROJECT CONTRACT FOR:  
MR FRANK DEHAUT  
QUALITY ASSURANCE PLUS**

**Respectfully Submitted  
PROAC CORPORATION**

**Dean Klopp, CIE, CMR, ASCS  
President**



***“WE’RE RESPONSIBLE FOR OUR CLIENTS’ SATISFACTION”***

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## INTRODUCTION:

On August 26, 2012, Proactive HVAC Maintenance and Detail Cleaning of Room # 1 located at Fawn Area Elementary School, Fawn Grove, PA began. The project was managed and supervised by:

Dean Klopp, CIE, CMR, ASCS, President, PROAC Corporation  
Bill Rivera ASCS, CVI, CMR, Field Service Supervisor, PROAC Corporation  
Jeffrey Hammer, ASCS, Crew Leader, PROAC Corporation

All work was completed and supervised by National Air Duct Cleaners Association (NADCA) Air System Cleaning Specialist (ASCS). All work was completed to meet the standards as outlined in the NADCA Assessment, Cleaning and Restoration 2006 (ACR 2006).

All technicians employed by PROAC Corp. are trained in Respiratory Protection, Hazard Communication, Confined Space Entry Procedures, Lockout/Tagout Procedures, Mold Remediation and OSHA 10 Hour Construction Safety Training.

The following report details the findings, the scope of work completed and photographs of the affected areas prior to work beginning and upon completion. Recommendations for future maintenance activities are included.

## COMPLETED SCOPE OF WORK:

- A) **Provided** all necessary PPE, including Tyvek suits, gloves, HEPA rated respirators, vacuums, etc. for work performed. PPE was changed two times a day, or more. Provided trained and certified workers in Mold Remediation, HVAC Hygiene, Hazardous Communication, Lock-out/Tag-out, Respiratory Protection, Confined Space Entry, Fall Safety, and 10 Hour Certification as defined by OSHA.

- B) **Blocked** transfer duct to neighboring room during work. Detail cleaned one (1) classroom and ceiling plenum with a HEPA contact vacuum and damp wiped porous surfaces clean using detergent and 5% bleach solution. Clean rinsed. Note: PROAC removed and returned chairs, desks and other mobile items from the room.
- C) **Obtained air sample** for Total Spore Counts in the classroom and compared with outdoor sample.
- D) **Provided** a written report including before and after pictures, scope of work, findings and recommendations.

## SCHEDULE:

One (1) working day with three (3) technicians was needed to complete the work. Thank you for the opportunity to serve Fawn Area Elementary School and the South East School District.

## SUMMARY OF FINDINGS:

- A) No suspected visible microbial growth above ceiling of classroom. Checked for moisture on tile, none found. Supply diffuser was not insulated on backside.
- B) Re-test for airborne, Total Spore Count, revealed indoor levels at less than 1% of outdoors.

## RECOMMENDATIONS:

Recommendations should be generally followed in the order given.

- 1) *Insulate backside of diffuser to avoid condensation.*

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**ROOM # 1-CONTAINMENT**



**ROOM # 1-CONTAINMENT**



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**ROOM # 1-CONTAINMENT**



**ROOM # 1-NEGATIVE AIR MACHINE WITH EXHAUST OUT WINDOW**



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**ROOM # 1-CONTAINMENT OF TRANSFER DUCT**



**ROOM # 1-CONTAINMENT OF TRANSFER DUCT**





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**ROOM # 1-CONTAINMENT OF TRANSFER DUCT**



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**ROOM # 1-CEILING TILE ABOVE TILE-BEFORE CLEANING**



**ROOM # 1-CEILING TILE ABOVE TILE-AFTER CLEANING**



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**ROOM # 1-CEILING TILE ABOVE TILE-BEFORE CLEANING**



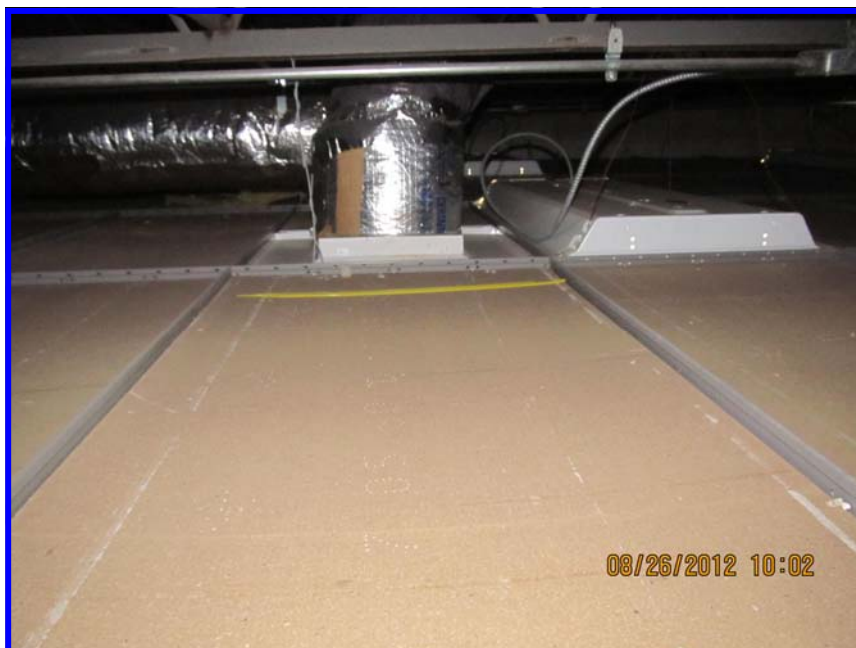
**ROOM # 1-CEILING TILE ABOVE TILE-AFTER CLEANING**



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**ROOM # 1-CEILING TILE ABOVE TILE-BEFORE CLEANING**



**ROOM # 1-CEILING TILE ABOVE TILE-AFTER CLEANING**



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**ROOM # 1-CEILING TILE ABOVE TILE-BEFORE CLEANING**



**ROOM # 1-CEILING TILE ABOVE TILE-AFTER CLEANING**



**Prestige EnviroMicrobiology, Inc**  
www.prestige-em.com

**Analytical Test Report**

Client: Proac Corporation, 8401 South Lancaster Ave, Bethel, PA 19507

Client Project/Name: Fawn Area Elem

Sample date: 8-28-2012

Submittal date: 8-28-2012

Samples submitted by: Walt Saunders

Data analysis completed: August 29, 2012

Prestige report number: 120829-05

**Microscopic Method (P001): Analysis of Allergenco Samples for Total Fungal Structures by Optical Microscopy**

Prestige # Client sample ID Location	Air vol. (m <sup>3</sup> )	% read	Presumptive fungal ID	Counts of fungal structures	Fungal structures/m <sup>3</sup>	Percentage	Background rating
120829-05-032 #1 Outside	0.075	15.3	ascospores	44	3,800	17%	
			basidiospores	150	13,000	59%	
			<i>Cercospora</i>	1	87	<1%	
			<i>Cladosporium</i>	28	2,400	11%	
			<i>Epicoccum</i>	1	87	<1%	
			<i>Ganoderma</i>	3	260	1%	
			myxomycetes	1	87	<1%	
			Pen/Asp-like	18	1,600	7%	
			<i>Periconia</i>	2	170	1%	
			<i>Polythrincium</i>	1	87	<1%	
			unknowns	4	350	2%	
					Total 22,000		1
120829-05-033 #2 Rm 1	0.075	25.5	hyphal fragments	1	52	33%	
			<i>Pithomyces</i>	1	52	33%	
			Pen/Asp-like	1	52	33%	
					Total 160		1

Report approved: Theresa Lehman  
Theresa Lehman, MPH, Lab Director

Quality control check: Chin S Yang  
Chin S Yang, Ph.D.

Report review: Chin S Yang

1. The samples in this report were received in good, acceptable conditions. Results relate only to the items tested.
2. Percentage is for each group of fungal structures in total population.
3. Concentrations and percentages are rounded to the nearest two significant digits. Total percentage may not add up to 100% due to rounding.
4. Background rating 1-5 (1 being the lowest and 5 the highest) indicates density of sample deposit. The higher the sample deposit is, the more likely some fungal structures are obscured.
5. The detection limit of this analysis is one fungal structure. The quantitation limits vary from analysis to analysis and by air volume. Contact us to determine your quantitation limits.

242 Terrace Boulevard, Suite B-1, Voorhees, New Jersey 08043 Tel: 856-767-8300 Fax 856-767-8305



Prestige EnviroMicrobiology, Inc. Tel: 856-767-8300  
 242 Terrace Boulevard., Suite B-1, Voorhees, New Jersey 08043

Fax: 856-767-8305

Prestige Proj.#: 120529-05

**Chain-of-Custody and Analysis Request Form**

Client name: Proac Corp Tel: \_\_\_\_\_ Client proj.#: FRAN AREA CHINA  
 Address: \_\_\_\_\_ Fax: \_\_\_\_\_ P.O.#: PRV

Sample ID	Location of source	Sample type	Air vol (L)/ Area (inch <sup>2</sup> )	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
#1	Outside	Space trap	75 L		Pac 1		
#2	Rm 1	"	"		"	SAME DATA PLEASED	

Date sampled: 2/26/12

Contact name: Walter Saunders Submitted by: (sign & print) Walter Saunders Date submitted: 2/26/12

Received by: (sign & print) John Yang Date & time received: 3:30 PM Delivered by: Fedex (UFS, USPO, in person)

(For lab use only) Processed by: \_\_\_\_\_ Sample type: \_\_\_\_\_ Date: \_\_\_\_\_

## REFERENCES

Information and excerpts may be taken from:

- ☒ Guidelines for the Assessment of Bioaerosols in the Indoor Environment, American Conference of Governmental Industrial Hygienists, 1989 (ACGIH)
- ☒ U.S. Environmental Protection Agency (EPA)
- ☒ Occupational Safety and Health Administration (OSHA)
- ☒ American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE) Standard 62-1989 and 2001, 55-1992
- ☒ Field Guide for the Determination of Biological Contaminants in Environmental Samples, American Industrial Hygiene Association, 1996 (AIHA)
- ☒ Bioaerosol Assessment and Control, American Conference of Governmental Industrial Hygienists, 1999
- ☒ Guidelines on Assessment and Remediation of Fungi in Indoor Environments, New York City Department of Health, 2000 (NYCDOH)
- ☒ Micromenaces, P & K Microbiology Services, Inc., November 1998, Volume 1, Issue 2
- ☒ National Air Duct Cleaners Association - Assessment, Cleaning, & Restoration of HVAC Systems, ACR 2002 (NADCA)



# REPORT CONDITIONS

This report is not to be considered a warranty, but a Proactive HVAC Maintenance Closing report on the conditions existing in the areas included in the scope of work at the time of the work only. Conditions only include work performed and reported here. We are not responsible for any errors or omissions due to hidden environmental or mechanical conditions. We are not responsible for any claims more than the amount of the total scope or otherwise noted in contract.