A CRA COMPANY

QUALITY ASSURANCE PLUS

Building Performance Consultants

MICROBIAL & INDOOR AIR QUALITY SURVEY

For

EAST MIDDLE SCHOOL

SOUTH EASTERN SCHOOL DISTRICT
377 Main Street
Fawn Grove, PA 17321-9545

QUALITY ASSURANCE PLUS
REPORT

EAST MIDDLE SCHOOL

REPORT SECTION

HOME OFFICE
PO Box 326
MT AETNA PA 19544

VOICE 717-933-9475
FAX 717-933-1403
TOLL FREE 877-255-0558
Webpage: proaccorp.com

PROAC
CORPORATION
PROACTIVE BUILDING MAINTENANCE

MEMBERS OF:

GREEN BUILDING ASSOCIATION OF CENTRAL PENNSYLVANIA
PROFESSIONAL ORGANIZATION

ASHRAE

NADCA
The HVAC Inspection, Maintenance and Restoration Association

MEMBER OF
Indoor Air Quality ASSOCIATION Inc.

QUALITY ASSURANCE MICROBIAL AND INDOOR AIR QUALITY SURVEY CLOSING REPORT

EAST MIDDLE SCHOOL

09/26/12

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

PROJECT CONTRACT FOR:
MR. FRANK DEHAUT JR
QUALITY ASSURANCE PLUS

Respectfully Submitted
PROAC CORPORATION

Reviewed By:
PROAC CORPORATION

Walter Saunders, CIEC, ASCS
Industrial Hygienist

CIEC

Dean R. Klopp, CIE, CMR, ASCS
President

CIE

"WE'RE RESPONSIBLE FOR OUR CLIENTS' SATISFACTION"

TABLE OF CONTENTS

LIST OF ATTACHMENTS

SUMMARY OF FINDINGS:

On September 26, 2012 a Quality Assurance Microbial and Indoor Air Quality Survey was performed at East Middle School located in Fawn Grove, PA. The survey was completed by:

Dean Klopp, CIE, CMR, ASCS, President, PROAC Corporation
Walt Saunders, CIEC, ASCS, Industrial Hygienist, PROAC Corporation
Mike Ruth, CMR, ASCS, Senior Crew Leader, PROAC Corporation

A visual inspection of each of the areas surveyed and each of the air handlers inspected revealed no indication of fungal or bacterial contamination.

The survey included direct reading measurements of Total Volatile Organics, (TVOC) Carbon Dioxide (C02), Carbon Monoxide (CO), Temperature, Relative Humidity (RH) and Particle Counts. An "AMPROBE" digital sling psychrometer was used to obtain temperature and relative humidity readings. Carbon Dioxide (CO2), Carbon Monoxide (CO) and Total Volatile Organic Compounds (VOC's) were sampled using a "MultiRAE IR", PGM-54 Multi-Gas Monitor. Range of gases begins at "0" and the resolution is 10ppm for CO2, 1ppm for CO. No significant readings were revealed. Particle counts were obtained with a Six Channel, Laser Hand Held Particle Counter (HHPC-6). Micron size of particles documented include; .3, .5, 1, 2, and 5 (um). C02 levels were slightly elevated in Room # 126 and Room # 124. There were no other significant readings.

The survey also included air sampling in eighteen (18) areas inside and five (5) outdoor locations for comparison. Air sampling was conducted for total fungal spores, viable fungi and yeasts and bacteria. A surface sample was obtained in each area that an air sample was obtained, excluding the outdoor samples, and analyzed for viable fungi, yeasts and bacteria. Samples for total, countable fungal structures were obtained using a Bio Pump and Allergenco D sampling cassettes. The pump was calibrated at 15 liters/ minute and the samples were drawn for 5 minutes. Samples for airborne, culturable fungi and yeasts and bacteria were obtained from each location using an Anderson-type sampler as recommended for IAQ studies by the Environmental Protection Agency (EPA) and the American Industrial Hygiene Association (AIHA). The Anderson pump was calibrated to meet the flow rate of 28.3 L/minute +/- 1% and the samples were drawn for four minutes. Typically, the fungal profile of the indoor samples should be similar to and of a lower concentration than the outdoor samples.

Generally, the samples for total fungal spores were of a lower concentration and similar rank and order as compared to the outdoor samples, however very low levels of *Gonderma,* which was not revealed in the outdoor samples, were revealed in several of the indoor areas including Room # 126, The Boys Locker Room, the Library Office , the Girls team Room and the Library. The concentration of this contaminant is not considered to be significant.

The air samples for viable fungi and yeasts revealed a lower concentration and similar rank and order as compared to the outdoor samples, however very low levels of several fungal types that were not revealed in the outdoor samples, were revealed in several of the indoor areas including *Aspergillus niger* in Room # 126, *Aspergillus versicolor* in Room # 124 and the Boys Locker Room, Cuvularia lunata in the Office Area and the Weight Room, *Aspergillus fumagatis* in The Boys Training Room and *Fusarium sporotrichioides* in the Girls Locker Room. The concentration of these contaminants is not considered to be significant.

The air samples for bacteria revealed minimal contamination throughout much of the school, however moderate concentrations of *Micrococcus luetus* were reveled in numerous rooms. Human-shed bacteria, i.e. *Staphylococcus* and *Micrococcus* are common in a public building.

Generally speaking, the air samples revealed no significant findings.

Surface samples were obtained in each room that air samples were obtained. The surface samples were obtained from locations most likely to harbor fungal and/or bacterial growth due to the potential for moisture, such as window sills.

The surface samples for fungi and yeasts obtained in each of the rooms tested revealed a moderate to high concentration of *Fusarium sporotrichioides* in the Cafeteria. The remaining surface samples revealed low levels of fungal contamination, NOT growth.

The surface samples for bacteria revealed high levels bacterial contamination, NOT growth in the form of gram (-) negative bacteria and *Psuedomonas* in Room # 126, Room # 124, the Cafeteria, the Weight Room, the Wrestle Room, the Boys Team Room, the Boys Locker Room, the Library Office, the Girls Team Room, Room # 224 and the Gymnasium. Additionally a significant concentration of *Flavobacterium* was revealed in the sample obtained from the Girls Locker Room.

A dust sample was obtained from the carpet in the office area. This sample revealed a significant concentration of fungi and bacteria. This carpet should be HEPA contact vacuumed and hot water extracted with a mild 5% bleach detergent solution. Thorough drying should then occur, utilizing dehumidifiers and fans.

It should be again noted that no visible evidence of fungal and/or bacterial growth was noted during the survey and that these sample locations were chosen to represent the worst case scenario in the school. We feel that the bacteria levels can be reduced significantly through upgraded housekeeping measures including upgrading to HEPA rated vacuums. Hard surfaces should be cleaned with detergent and/or 5% bleach solution and clean rinsed. Areas with roof leaks should also be treated with a mild, 5% bleach solution, rinsed and dried. This work can be completed by school personnel.

A total of seventeen air handler units were inspected as part of the survey. Generally, the filters and coils were slightly fouled with dust. Suspect contamination was noted on the blower fan in the Office unit. No visible evidence of contamination was noted in any of the other units inspected.

A sterile swab sample was obtained from each unit and analyzed for viable fungi and yeasts and bacteria. The samples obtained in the HVAC units in the Weight Room, the Girls Locker Room, Room 216, Room 135 the Cafeteria, and the Girls Training Room revealed minimal to no fungal and bacterial contamination. The samples obtained in the Air Handling Units in the Gymnasium, the Library Office, the Library Scanner Room, Room 222, Room 224, the Office, the Girls Training Room, The Boys Team Room and Room 126 revealed moderate to heavy concentrations of fungi and/or bacteria. We are recommending that these unit be professionally cleaned and treated with an EPA registered sanitizer.

MICROBIOLOGICAL SAMPLES

Media Used

Viable Mold, Yeast & Fungus Agar Plates	Malt Extract
Total, Countable Fungi	Allegenco D Spore Trap Cassettes
Bacteria	Tryptic Soy Agar
Surface Samples	Sterile Swabs

There are currently no standards regarding the amount of fungal or bacterial (microbial) contamination on surfaces or in the air. There are, however, guidelines to assist IAQ professionals with comparing their survey data to study data. References are listed as an attachment. According to the American Conference of Government Industrial Hygienists (ACGIH) and the EPA, the recommended level for microbiological exposure is an equal or lower quantity inside the building than found outside the building. Also, indoor samples should have the same kind, rank and order of organisms that are found outdoors.

Samples were obtained from the following locations:

Cafeteria	Girls Locker Room
Girls Team Room	Weight Room
Boys Locker Room	Boys Team Room
Library Storage Room	Library Office
Room # 135	Room # 137
Gym # 1	Gym # 2
Main Office	Room # 224
Room # 124	Wrestle Room
Room # 126	Room # 222
Outside Front Entrance	Outside Entrance E 12
Outside Entrance E 18	Outside Entrance E 16
Outside Rear Entrance	

Air Samples for Total Countable Fungal Spores

Outdoor Air Samples - Five samples was obtained outdoor for comparison to the indoor sample. This sample are used as an aid in determining if the source of fungal contamination is indoors. The outdoor samples revealed seasonable levels of fungal contamination with *Cladosporium*, ascospores and basidiospores being the primary contaminants.

Inside Air Samples – Eighteen samples were obtained from location in the school. Generally, the samples for total fungal spores were of a lower concentration and similar rank and order as the outdoor samples, however very low levels of *Gonderma,* which was not revealed in the outdoor samples, were revealed in several of the indoor areas including Room # 126, The Boys Locker Room, the Library Office , the Girls team Room and the Library. The concentration of this contaminant is not considered to be significant.

Air Samples for Viable Mold Yeast and Fungus

Outdoor Air Samples - Five outdoor samples were obtained for comparison with the indoor environment. These samples is used as an aid in determining if the source of fungal contamination is indoors. The outdoor samples revealed seasonable levels of fungi with *Cladosporium* being the dominant contaminant.

Inside Air Samples – Eighteen samples were obtained indoors. The air samples for viable fungi and yeasts revealed minimal contamination throughout the school however very low levels of several fungal types that were not revealed in the outdoor samples, were revealed in several of the indoor areas including *Aspergillus niger* in Room # 126, *Aspergillus versicolor* in Room # 124 and the Boys Locker Room, *Curvularia lunata* in the Office Area and the Weight Room, *Aspergillus fumagatus* in the Boys Training Room and *Fusarium sporotrichioides* in the Girls Locker Room. The concentration of these contaminants is not considered to be significant.

Air Samples for Bacteria

Outdoor Air Samples - Five outdoor samples were obtained for comparison with the indoor environment. These samples is used as an aid in determining if the source of fungal contamination is indoors. The primary contaminants in the outdoor samples were *Methylobacterium, Bacillus* and *Micrococcus luteus.*

Indoor Air Samples - Eighteen samples were obtained indoors. The air samples for bacteria revealed minimal contamination throughout much of the school, however moderate concentrations of *Micrococcus luetus* were reveled in numerous rooms. Human-shed bacteria, i.e. *Staphylococcus* and *Micrococcus* are common in a public building.

We feel that the bacteria levels can be reduced significantly through upgraded housekeeping measures including upgrading to HEPA rated vacuums. Hard surfaces should be cleaned with detergent and/or bleach solution and rinsed. Areas with roof leaks should also be treated with a mild, 5% bleach solution, rinsed and dried. This work can be completed by school personnel.

Bulk Dust Samples for Mold, Fungi, Yeasts and Bacteria

A dust sample was obtained from the carpet in the office area. This sample revealed a significant concentration of fungi and bacteria spores. This carpet should be HEPA contact vacuumed and hot water extracted with a mild 5% bleach detergent solution. Thorough drying should then occur, utilizing dehumidifiers and fans.

It should be again noted that no visible evidence of fungal and/or bacterial growth was noted during the survey and that these sample locations were chosen to represent the worst case scenario in the school.

Surface Samples for Mold, Fungi and Yeasts

Surface samples for mold, fungi and yeasts and bacteria were obtained in each area that air samples were obtained. The surface samples were obtained from locations most likely to harbor fungal and/or bacterial growth due to the potential for moisture, such as window sills.

The surface samples for fungi and yeasts obtained in each of the rooms tested revealed a moderate to high concentration of *Fusarium sporotrichioides* in the Cafeteria. The remaining surface samples revealed low levels of fungal contamination, NOT growth.

Surface Samples for Bacteria

The surface samples for bacteria revealed high levels of bacterial contamination, NOT growth, in the form of gram (-) negative bacteria and *Psuedomonas* in Room # 126, Room # 124, the Cafeteria, the Weight Room, the Wrestle Room, the Boys Team Room, the Boys Locker Room, the Library Office, the Girls Team Room, Room # 224 and the Gymnasium. Additionally a significant concentration of *Flavobacterium* was revealed in the sample obtained from the Girls Locker Room.

AHU INSPECTION AND SAMPLING

A total of seventeen air handler units were inspected as part of the survey. Generally, the filters, coils, drain pans, blower fans and insulation were noted to be in good condition however the drain pan in the Office AHU is rusted and suspect fungal contamination was noted on the blower fan in this unit. Additionally, the filters in the Cafeteria AHU were collapsing and should be replaced. No visible evidence of growth was noted in any other unit inspected.

SWAB SAMPLES FOR MOLD/FUNFI YEASTS AND BACTERIA

A sterile swab sample was obtained from each unit and analyzed for viable fungi and yeasts and bacteria.

The samples obtained in the units in the Weight Room, the Girls Locker Room, the Room # 216 UV, the Cafeteria, the Room # 124 UV, the Boys Locker Room AHU and the Room and the Girls Training Room and the Room # 135 UV revealed minimal to no fungal and bacterial contamination.

The samples obtained in the Gym RTU, the Library Office, The Library Scanner Room, The Room 222 AHU, the Room 224 UV, the Office AHU and the Girls Training Room each revealed significant concentrations of fungal and/or bacterial contamination.

We are recommending that these unit be professionally cleaned and treated with an EPA registered sanitizer.

GAS SAMPLING AND PARTICLE COUNTS

The weather on the days of the survey was warm humid with ambient air temperatures in the mid 60's to mid 70's. Relative humidity (RH) readings outdoors ranged between 55% and 73%. The carbon dioxide (CO2) readings outdoors ranged between 240 ppm and 320 ppm. Carbon Monoxide (CO) and Volatile Organic Compound (VOC's) were not detected outdoors on the day of the survey.

Temperatures in the school ranged 68 degrees F and 78 degrees F while the RH reading indoors were recorded between 35% and 69% with most readings in the mid 50% range. The American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) have suggested that for optimum comfort, indoor temperatures should range from 68.5-76 degrees F during the heating season and 73 - 79 degrees F during the cooling season. The guidelines also suggest 30% RH as the minimum indoor humidity level and 60% as the maximum indoor humidity level (ASHRAE Standard 55-1992).

ASHRAE has also suggested that for optimum comfort, **Carbon Dioxide** levels should not exceed 700 ppm above ambient air. The C02 levels indoors generally, were well within the standard, however C02 readings were slightly elevated as compared to the standard in Room #'s 126 and 124. Elevated C02 levels could be the result of increased occupants and or activity in the space. Each of the room had a minimum of 22 occupants at the time the readings were obtained.

Carbon Monoxide readings registered 0.0 ppm throughout the survey.

Total Volatile Organic Compound readings re glistered 0.0 ppm throughout the survey. Detection limit begins at 0.1 ppm. Total V.O.C. levels of 1 ppm or above are considered significant. If chemical sensitivity is an issue than more specific tests may be performed.

Particle Counts were recorded in five sizes of microscopic particulate. Data collected is used only as an indicator of dusty environments or for relative comparison. Higher counts may be an indicator of high occupancy, low efficiency filtration, lack of hygiene, use of paper products or processes, etc.

Typically, particle counts should be lower inside that building than outside. Particle counts in the school were generally lower as compared to the out doors.

No standards are available for "counts" of particulate of any size, outside of a "Clean Room" environment. Time Weighted Averages may be performed by collecting "dust" and particulate onto a pre-weighed cassette, drawn by a vacuum pump over a known period of time (NIOSH method). This method is usually performed in a manufacturing or dusty environment. This method is not recommended.

RECOMMENDATIONS:

1) Correct roof leaks.

2) Significant bacterial contamination was noted in many of the surface samples, including Room #'s 126, 124, 224, the Cafeteria, the Weight Room, the Wrestle Room, the Boys Team Room, the Boys Locker Room, The Library Office, the Girls Locker Room, The Girls Team Room and the Gymnasium. We are recommending that general housekeeping be upgraded in these areas of the school as well as all other remaining areas of the school. This housekeeping should include HEPA vacuuming throughout, including room contents, as well a cleaning all non porous surfaces with hot water, detergent and bleach solution with clean water rinse. This work can be completed by school Personnel.

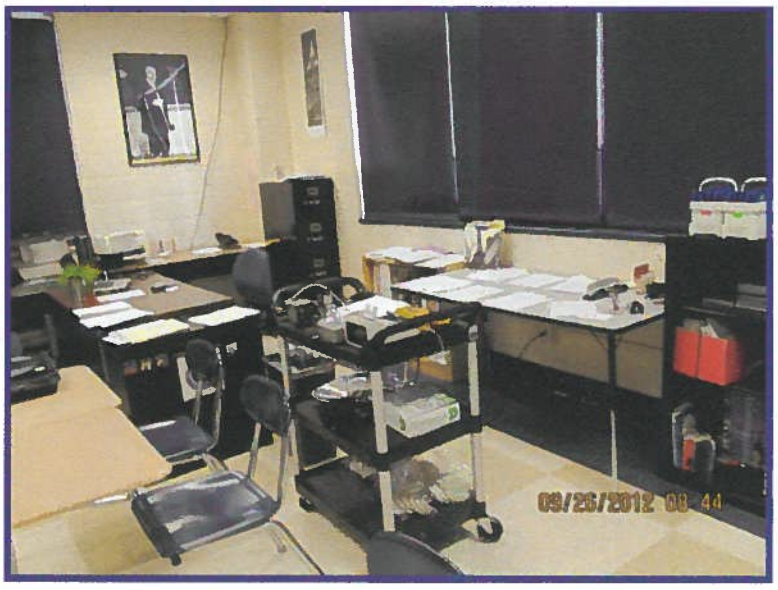
3) We are recommending that the Air Handlers in the Gym, the Library Office, the Library Scanner Room, Room 222, Room 224, the Office and the Girls Training Room each be cleaned via HEPA vacuum, the coils be cleaned with the patented, Aeris enzymatic coil cleaner and coated with Aeris Guard anti-foulant which will guarantee and inhibit mold growth for one year on the coils. Other hard surfaces in the units should be washed with detergent, rinsed and treated with the EPA registered sanitizer, Fast Attack. This work should be completed under the supervision of National Air Duct Cleaners Association (NADCA) certified Air Systems Cleaning Specialist (ASCS) and American Council for Accredited Certification (ACAC) Council Certified Mold Remediators. Routine cleaning of all HVAC units should continue, including the Aeris Coil Restoration. Filters should be changed twice yearly, unless conditions warrant more frequency. Filters should be replaced in the Cafeteria AHU.

4) The Office carpet should be HEPA contact vacuumed and hot water extracted with detergent, 5% bleach and clean rinsed. Thorough drying should immediately occur utilizing dehumidifiers and fans.

5) Adopt the patented Aeris TM, Coil Restoration program, which includes washing the coils with the enzymatic coil cleaner and treating the coils with the anti-foulant/EPA registered anti-microbial.

SAMPLE LOCATION - OUTSIDE E-12 ENTRANCE

SAMPLE LOCATION - ROOM # 126



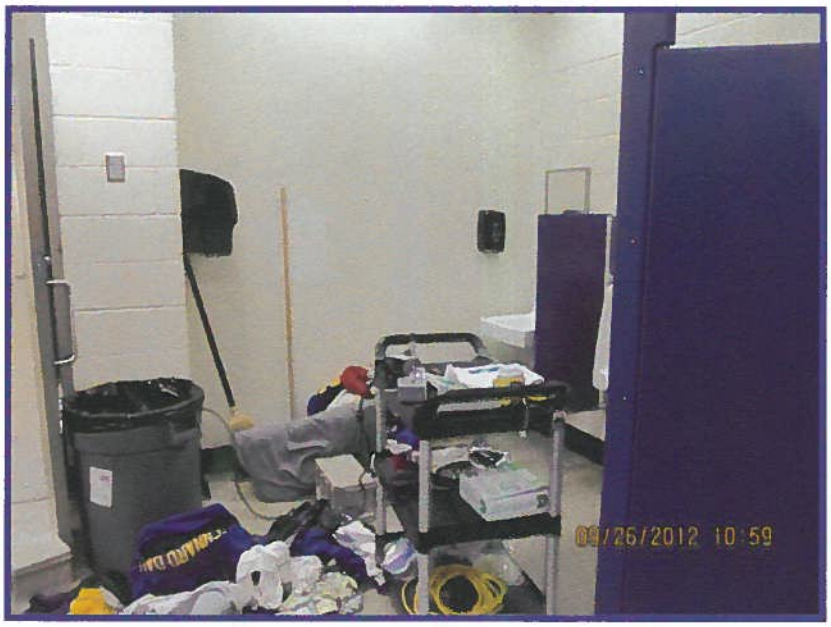
SAMPLE LOCATION - ROOM 124

SAMPLE LOCATION CAFETERIA

SAMPLE LOCATION - OUTSIDE FRONT ENTRANCE

SAMPLE LOCATION - WEIGHT ROOM

SAMPLE LOCATION - BOYS TEAM ROOM



SAMPLE LOCATION - BOYS LOCKER ROOM

SAMPLE LOCATION - LIBRARY OFFICE

SAMPLE LOCATION - GIRLS LOCKER ROOM

QUALITY ASSURANCE MICROBIAL & IAQ SURVEY

EAST MIDDLE SCHOOL

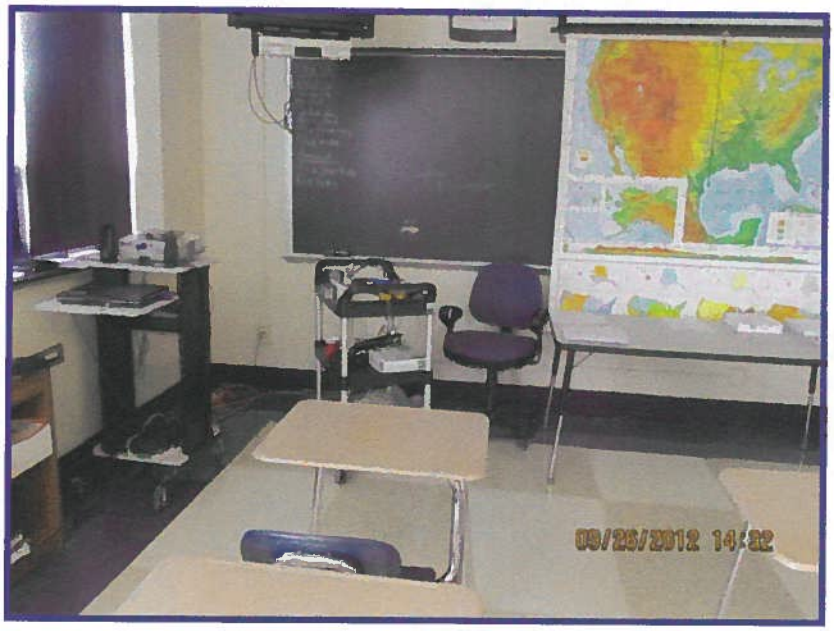
SAMPLE LOCATION - OUTSIDE ENTRANCE E-18

SAMPLE LOCATION ROOM # 135

SAMPLE LOCATION - ROOM # 137

SAMPLE LOCATION - OUTSIDE REAR ENTRANCE

SAMPLE LOCATION - ROOM 224

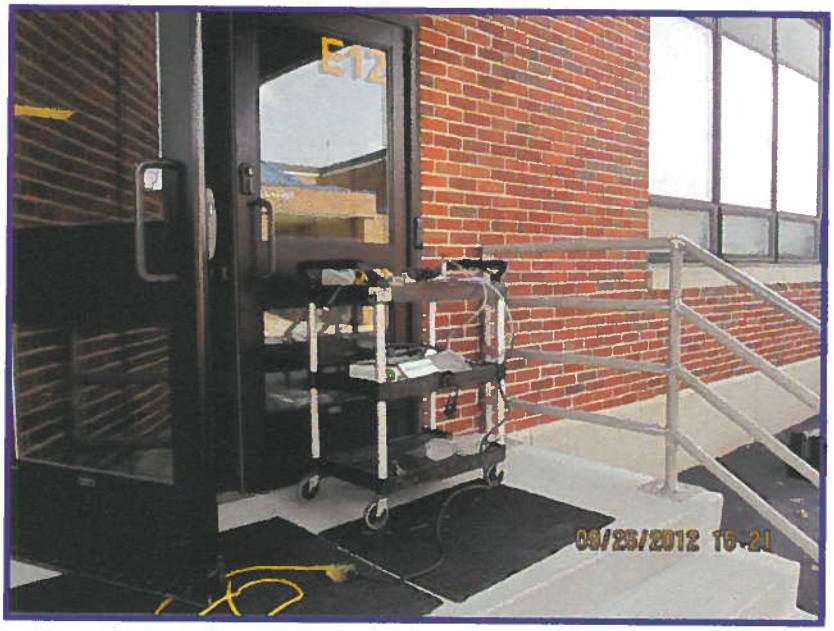


SAMPLE LOCATION ROMM # 222

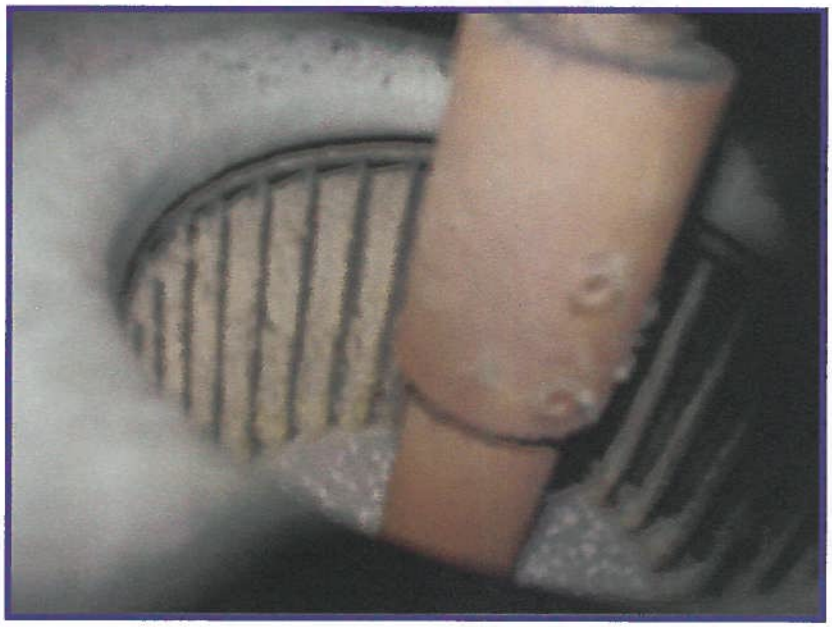
SAMPLE LOCATION - GYM 1

SAMPLE LOCATION - GYM 2

SAMPLE LOCATION - OUTSIDE ENTRANCE E-12



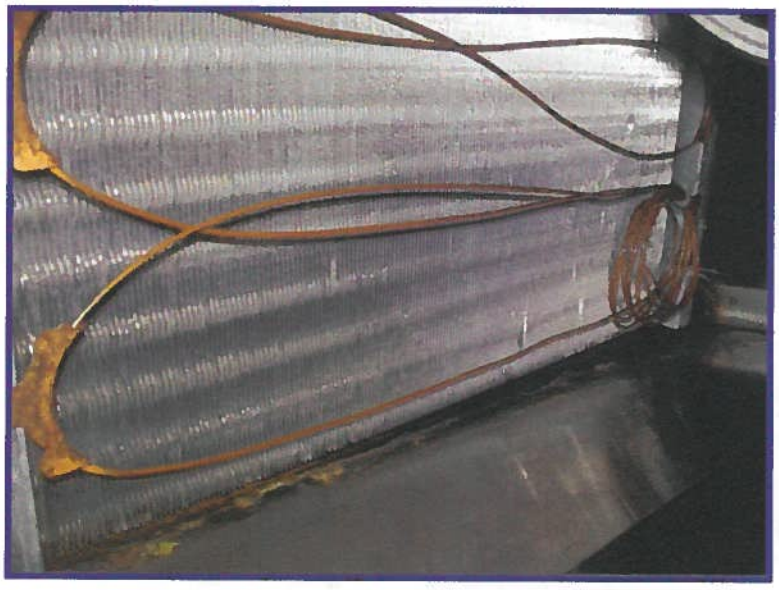
GIRLS TRAINING ROOM-UNIT BLOWER



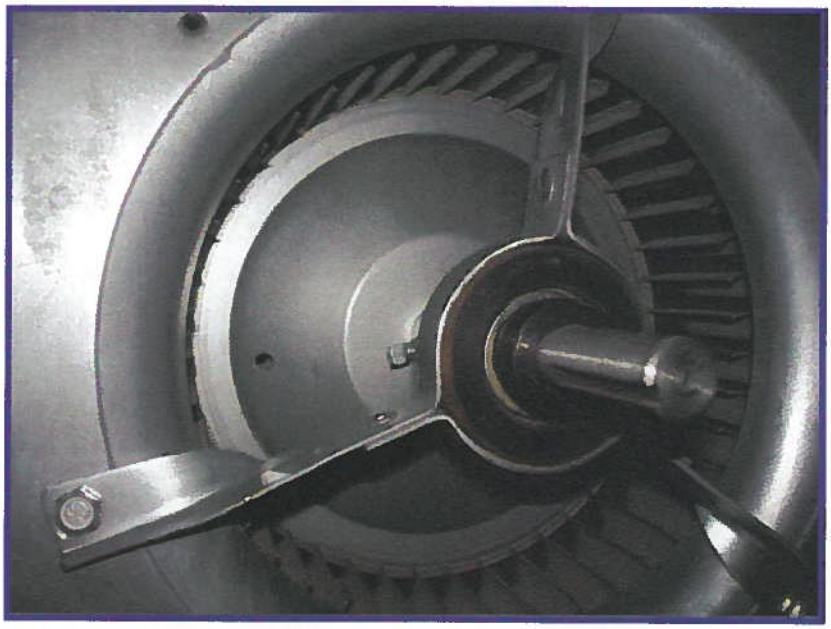
GIRLS TRAINING ROOM-UNIT WALL

GIRLS TRAINING ROOM-UNIT FILTER

LIBRARY SEMINAR ROOM-UNIT COIL/DRAIN PAN

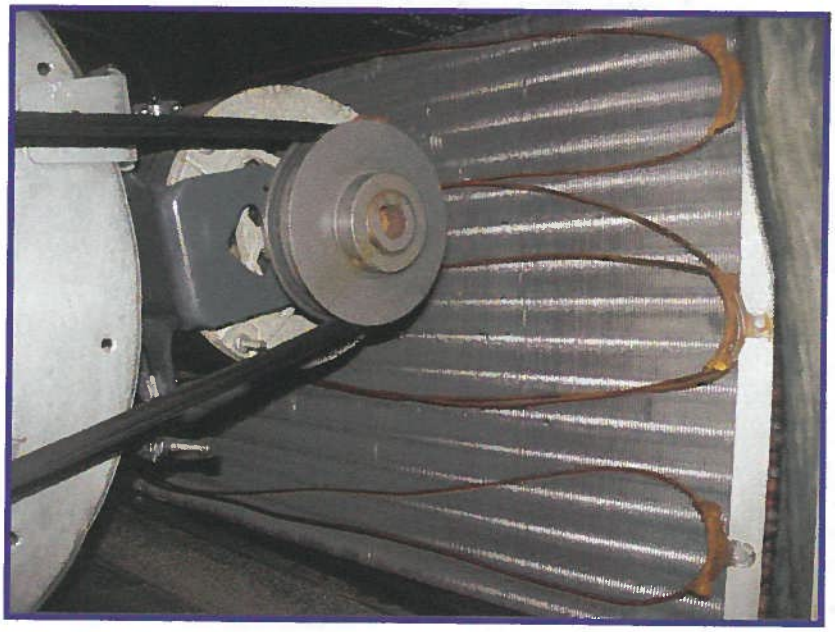


LIBRARY SEMINAR ROOM-UNIT BLOWER

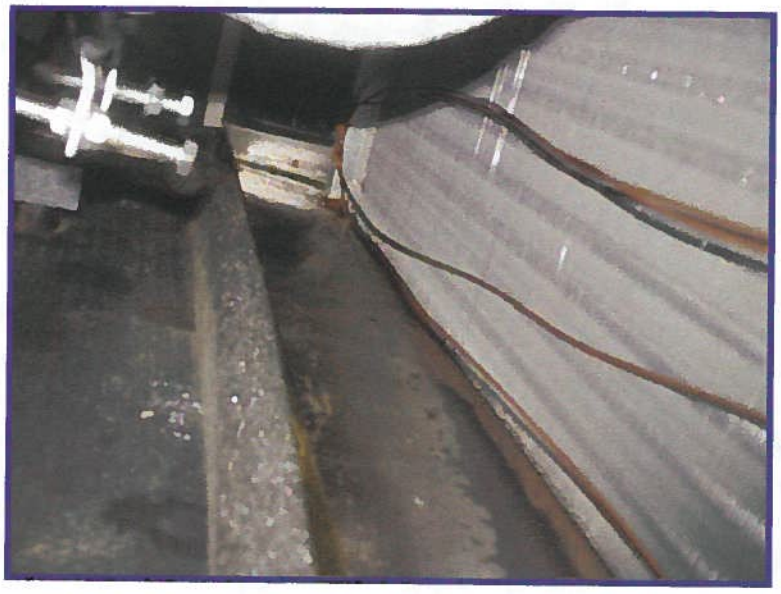


LIBRARY SEMINAR ROOM-UNIT INSULATION

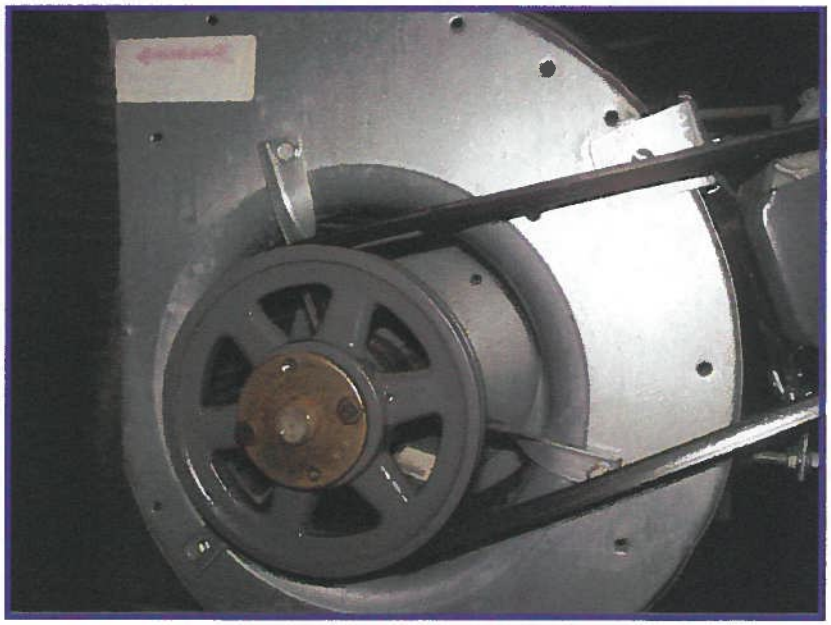
ROOM # 135-UNIT COIL



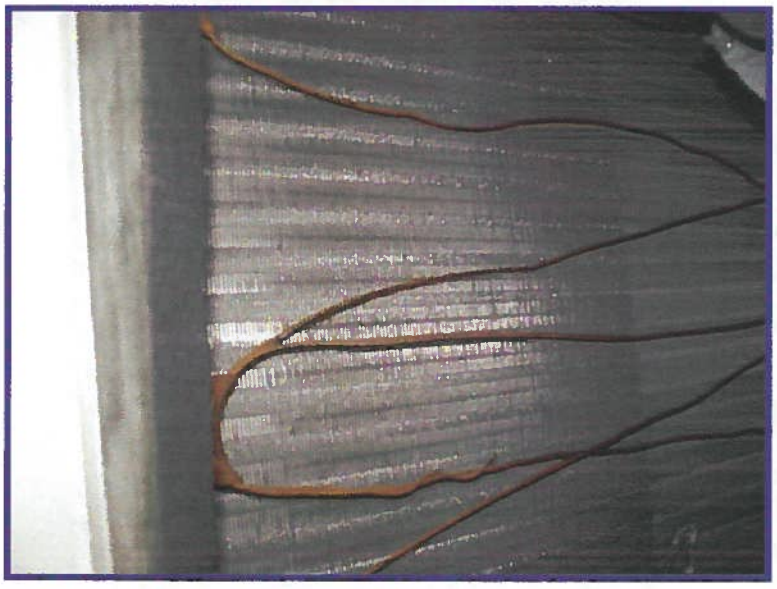
ROOM # 135-UNIT DRAIN PAN



ROOM # 135-UNIT BLOWER

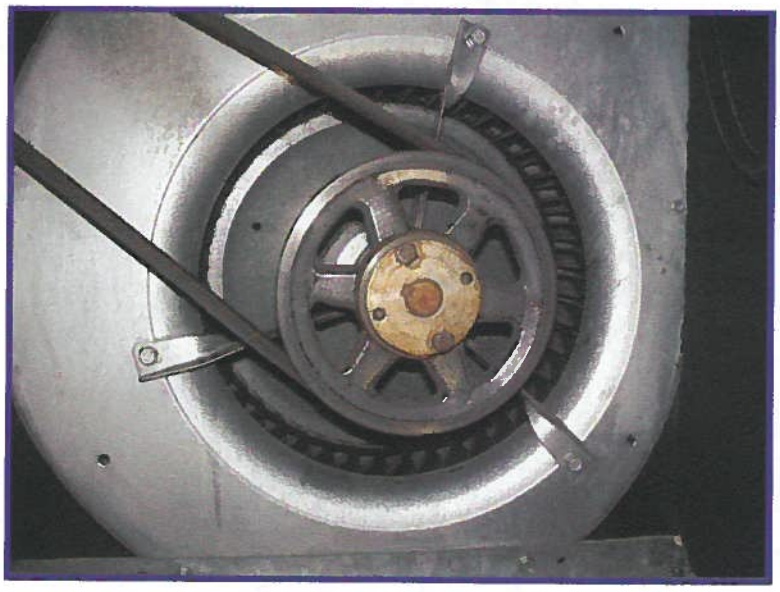


ROOM # 137-UNIT COIL

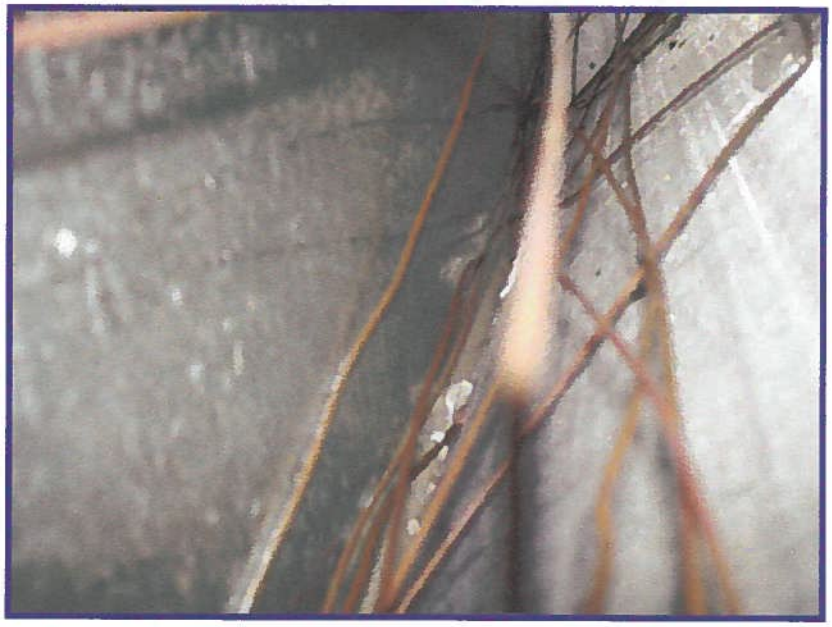


ROOM # 137-UNIT DRAIN PAN

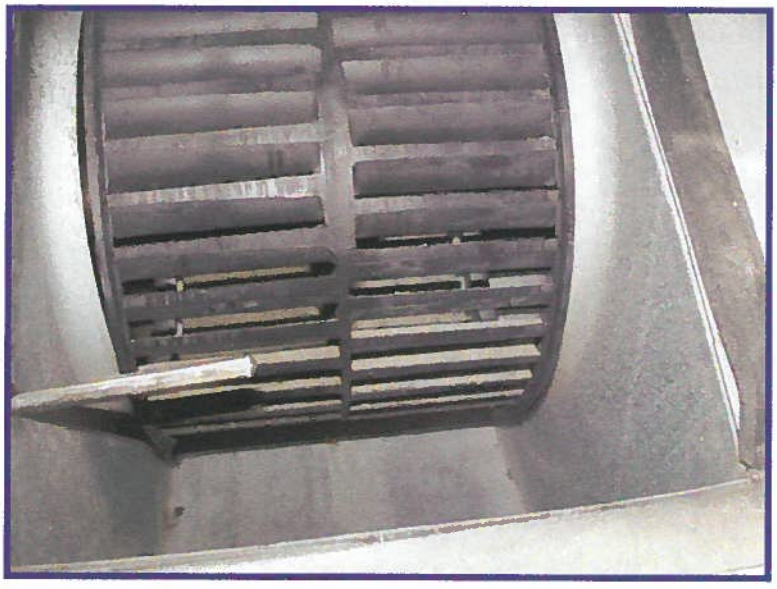
ROOM # 137-UNIT BLOWER



ROOM # 224-UNIT VENTILATOR COIL



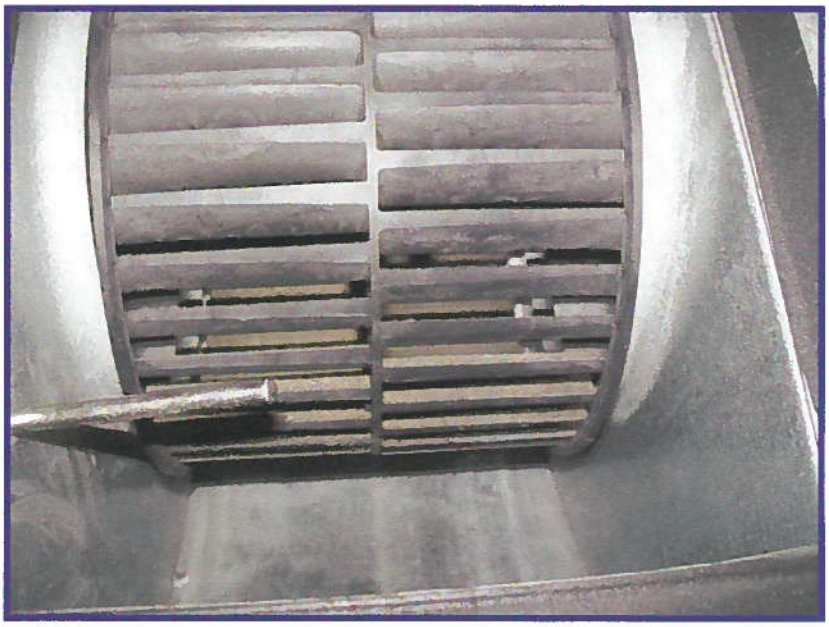
ROOM # 224-VENTILATOR BLOWER



ROOM # 224-UNIT VENTILATOR

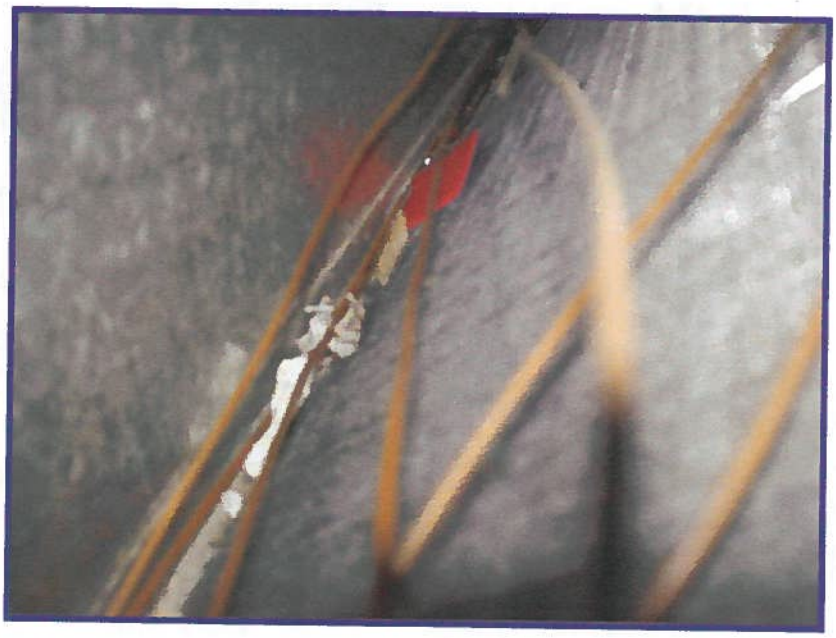
ROOM # 222-UV COIL

ROOM # 222-UV BLOWER

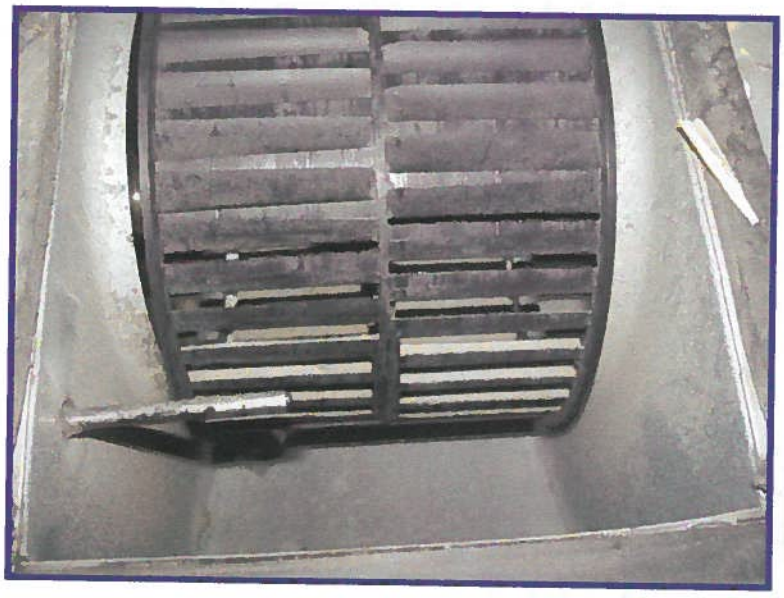


ROOM # 222-UV

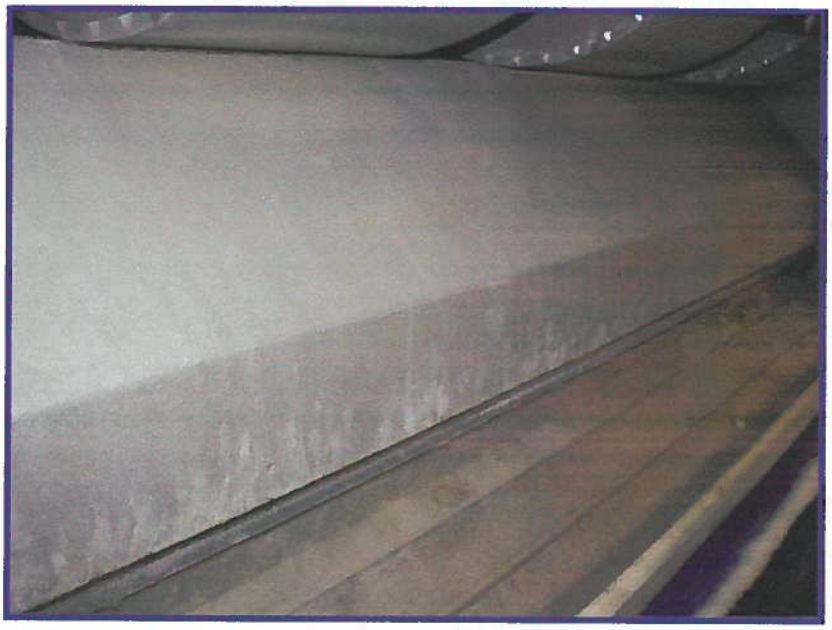
ROOM # 216-UV COIL



ROOM # 216-UV BLOWER



ROOM # 216-UV

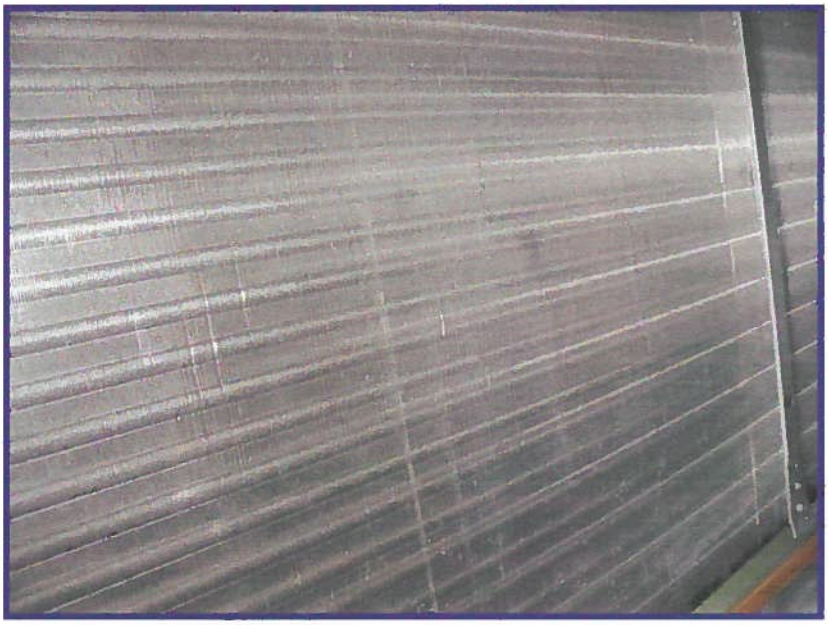


RTU -GYMNASIUM FARTHEST FROM FLAGPOLE OUTSIDE DAMPERS NO UNIT #

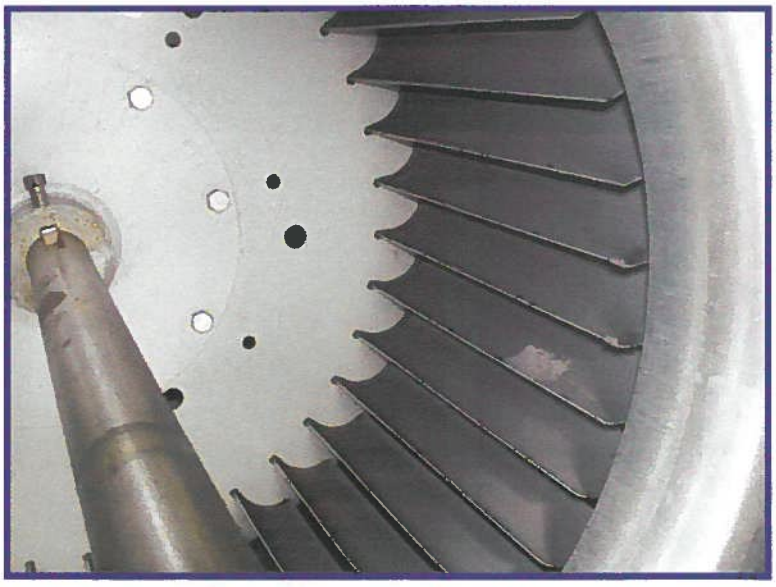
RTU -GYMNASIUM FARTHEST FROM FLAGPOLE

RTU -GYMNASIUM FARTHEST FROM FLAGPOLE –FILTERS

RTU -GYMNASIUM FARTHEST FROM FLAGPOLE –COILS



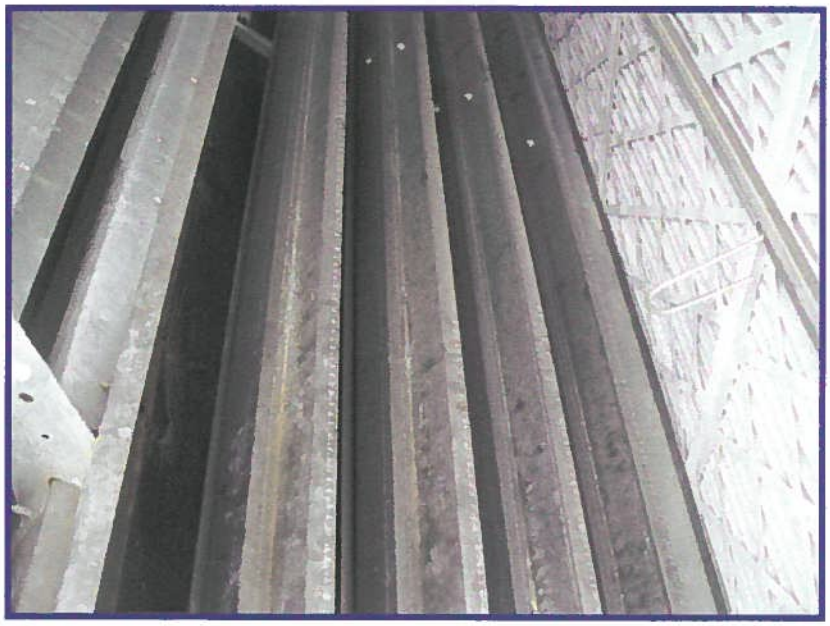
RTU -GYMNASIUM FARTHEST FROM FLAGPOLE –BLOWER FINS



RTU -GYMNASIUM FARTHEST FROM FLAGPOLE –OUTSIDE AIR FILTERS/BIRD SCREEN

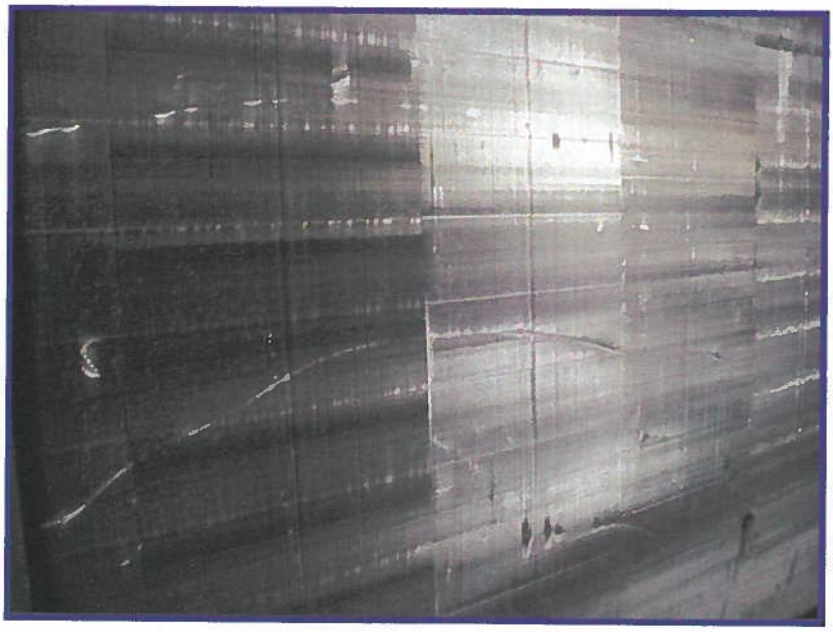
RTU -GYMNASIUM CLOSEST TO FLAGPOLE –OUTSIDE AIR DAMPERS-NO UNIT #

RTU -GYMNASIUM CLOSEST TO FLAGPOLE –RETURN AIR DAMPERS

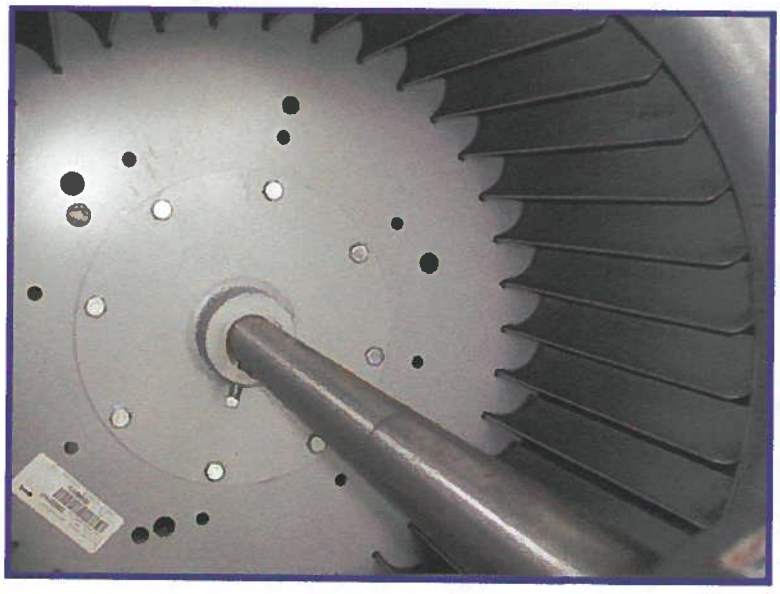


RTU -GYMNASIUM CLOSEST TO FLAGPOLE –FILTERS

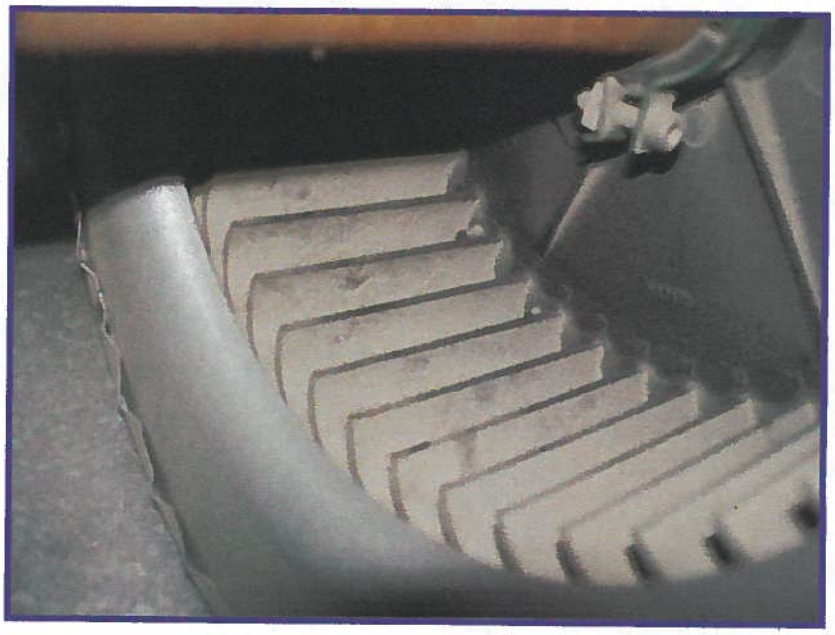
RTU -GYMNASIUM CLOSEST TO FLAGPOLE –COILS



RTU -GYMNASIUM CLOSEST TO FLAGPOLE –BLOWERS



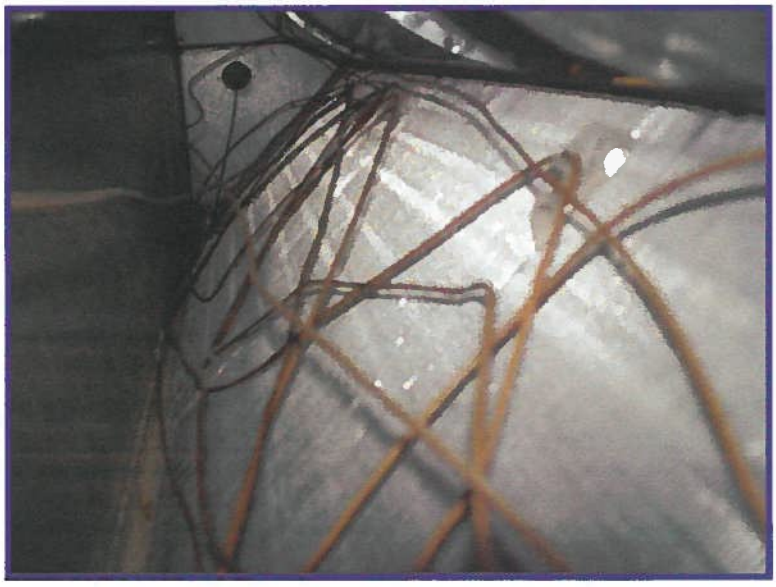
RTU # 126-UV BLOWER



RTU # 126-UV

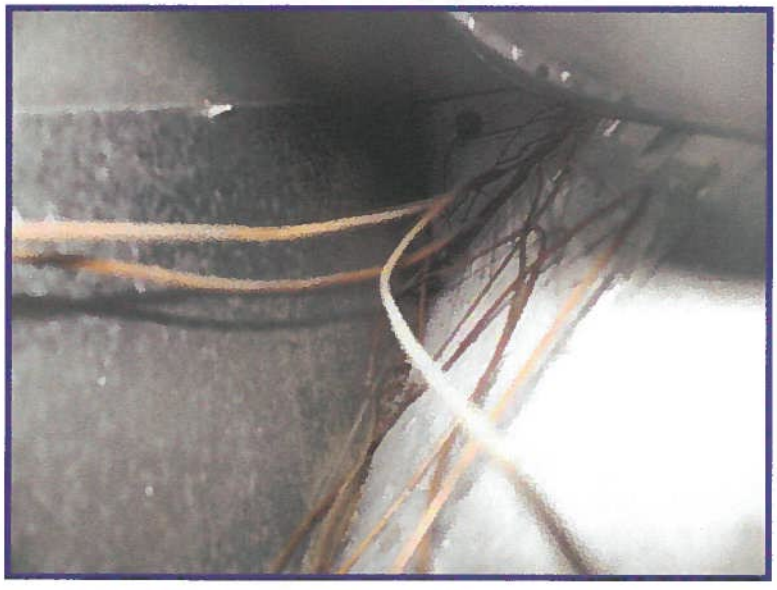
RTU # 126- BLOWER

RTU # 126-UV COIL



RTU # 124– UV BLOWER

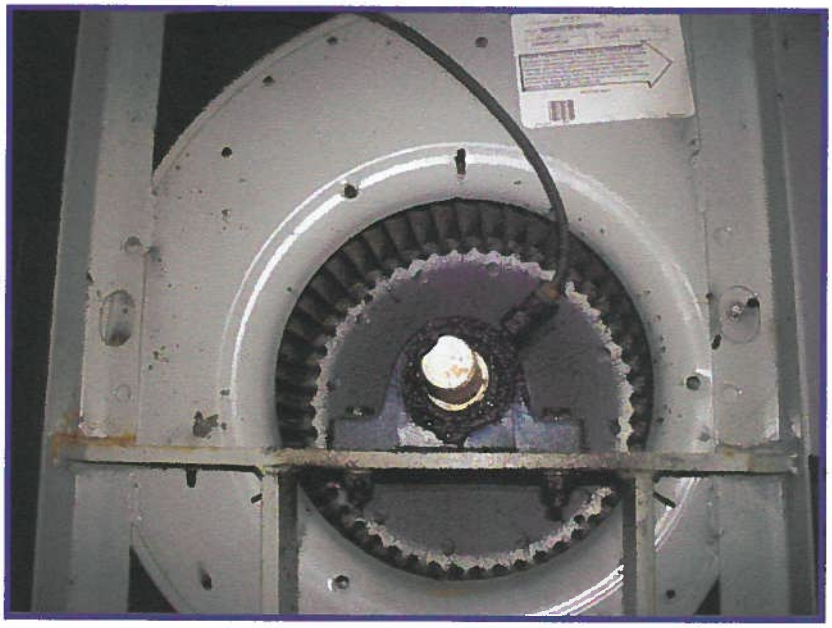
RTU # 124-UV COIL



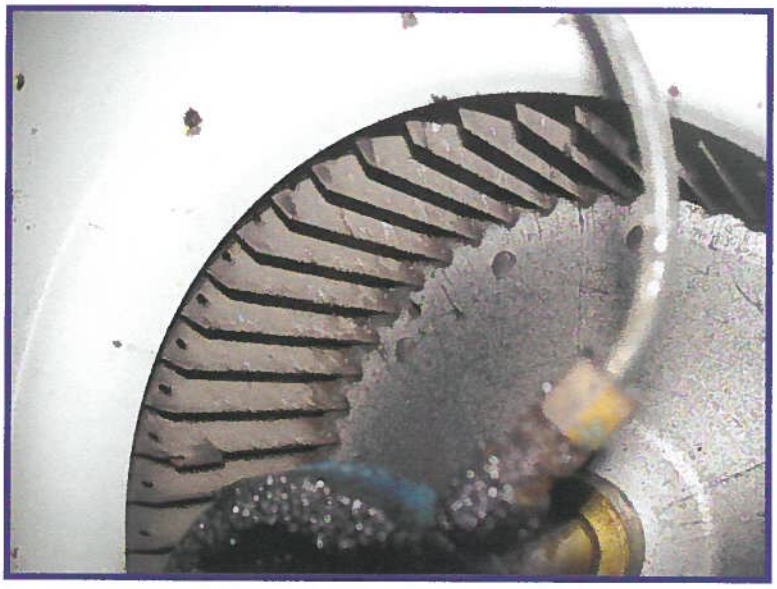
RTU # 124– UV

AHU # 3-OFFICE AREA-COIL-CEILING

AHU # 3-OFFICE-BLOWER-SUSPECT MICROBIAL GROWTH

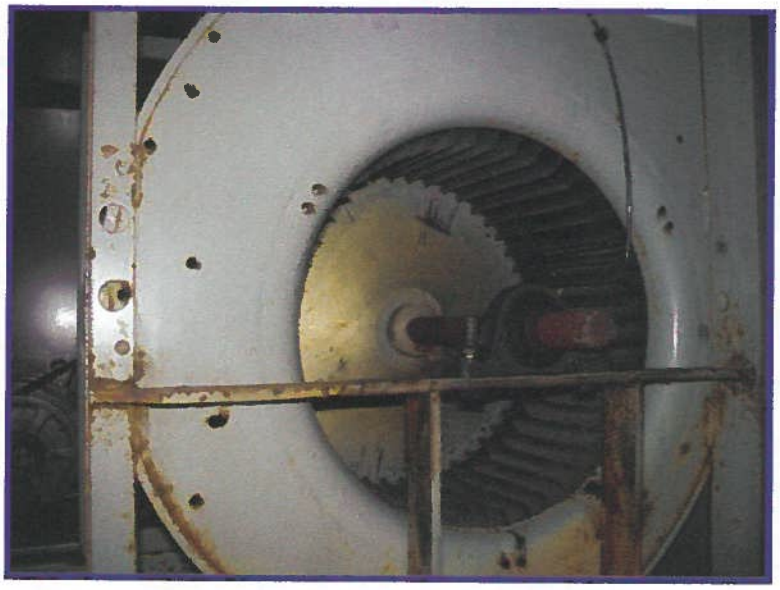


AHU # 3-OFFICE BLOWER FINS



AHU # ?-CAFETERIA-COIL DOWNSTREAM

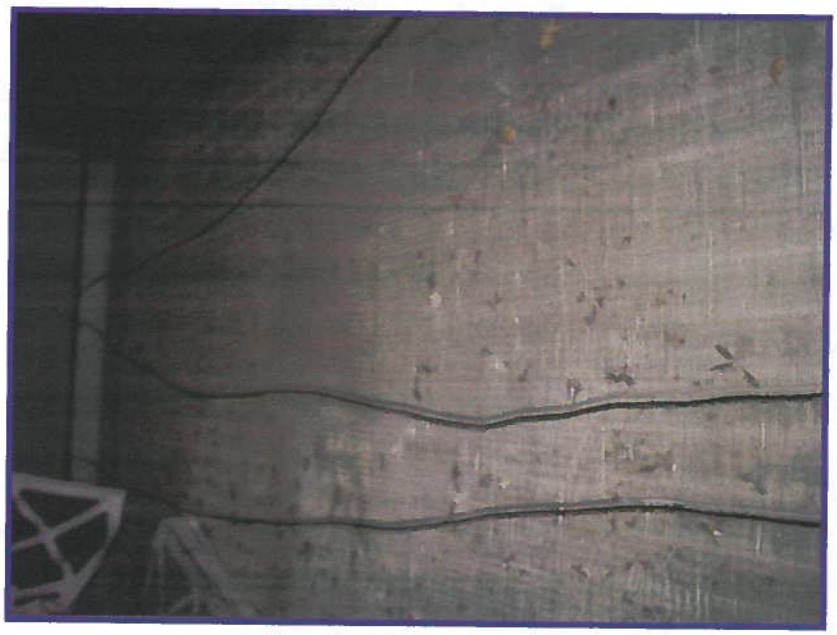
AHU # ?-CAFETERIA -BLOWER



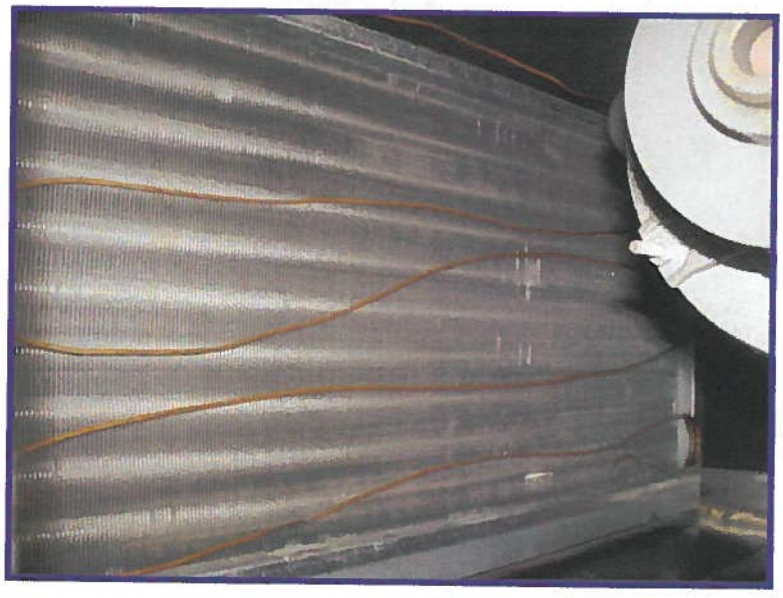
AHU # ?-CAFETERIA-FLOOR

CAFETERIA AHU-FILTERS

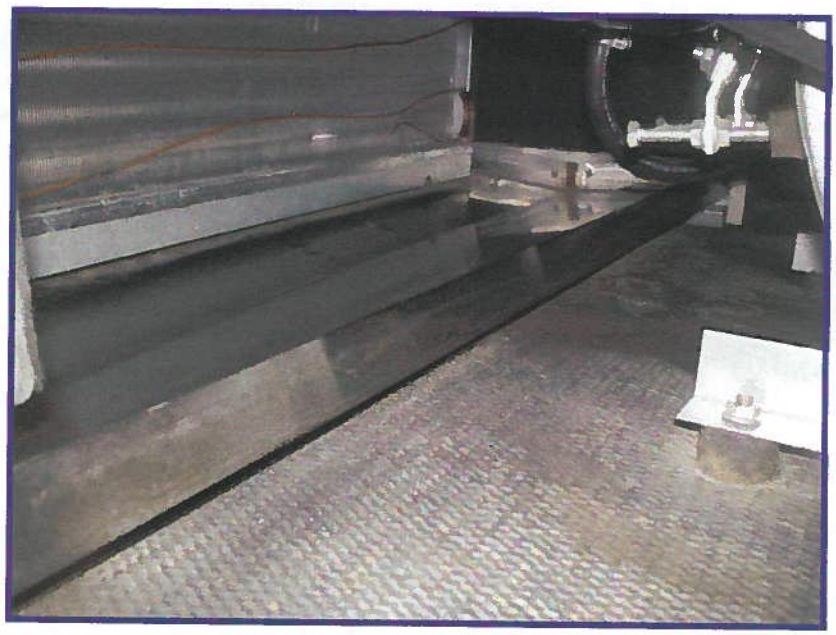
CAFETERIA AHU - COIL UPSTREAM



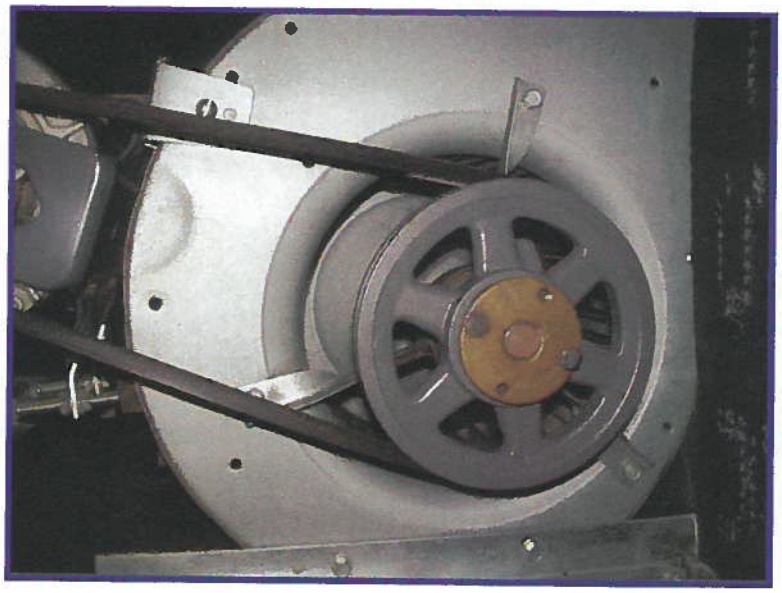
WEIGHT ROOM-UNIT COIL



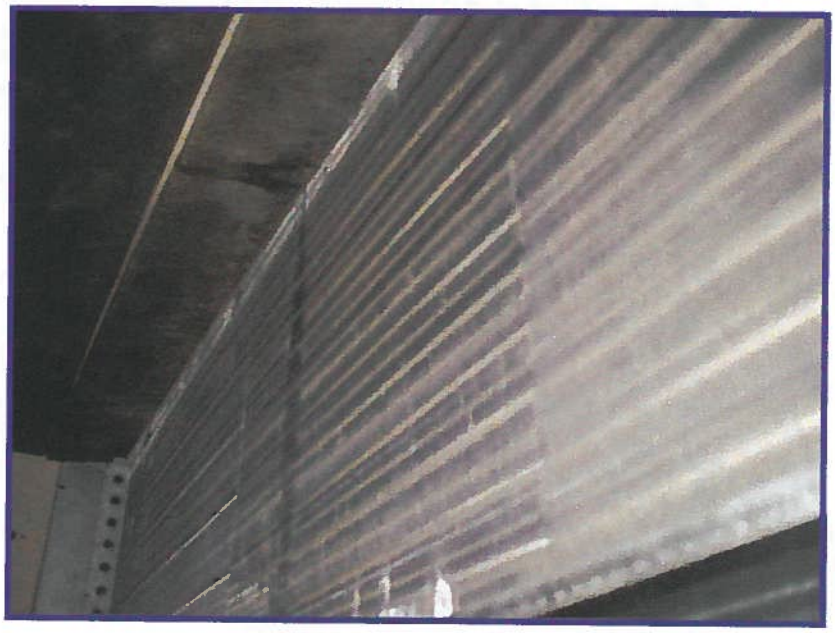
WEIGHT ROOM-UNIT FLOOR



WEIGHT ROOM-UNIT BLOWER

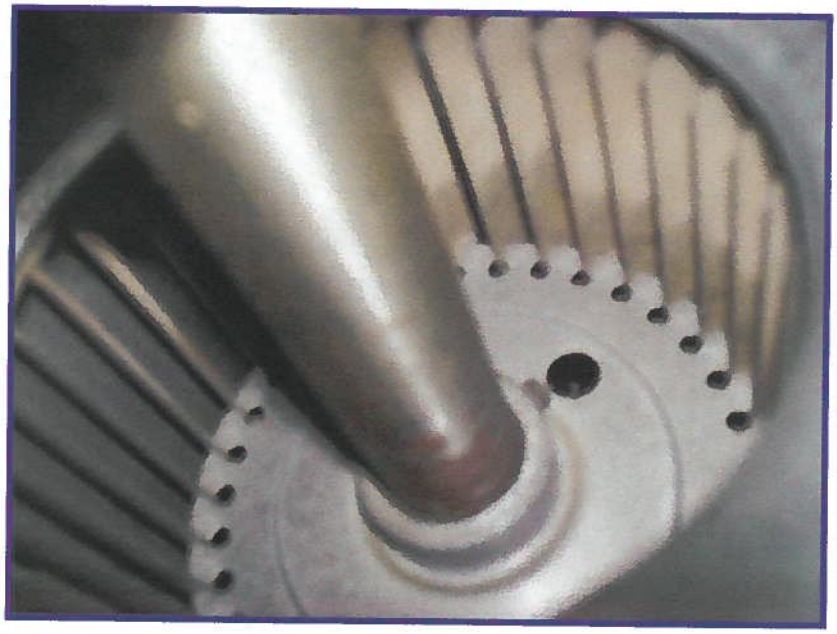


TEAM ROOM-UNIT COILS UPSTREAM

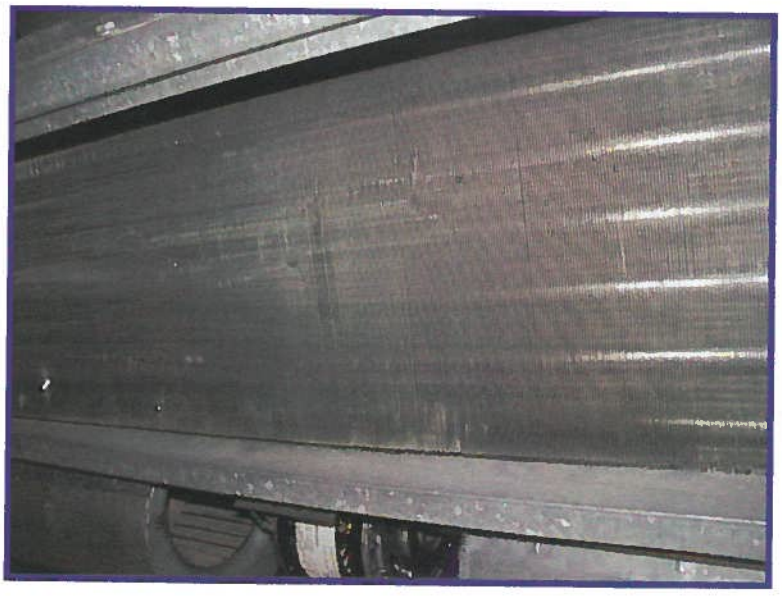


TEAM ROOM-UNIT COILS DOWNSTREAM

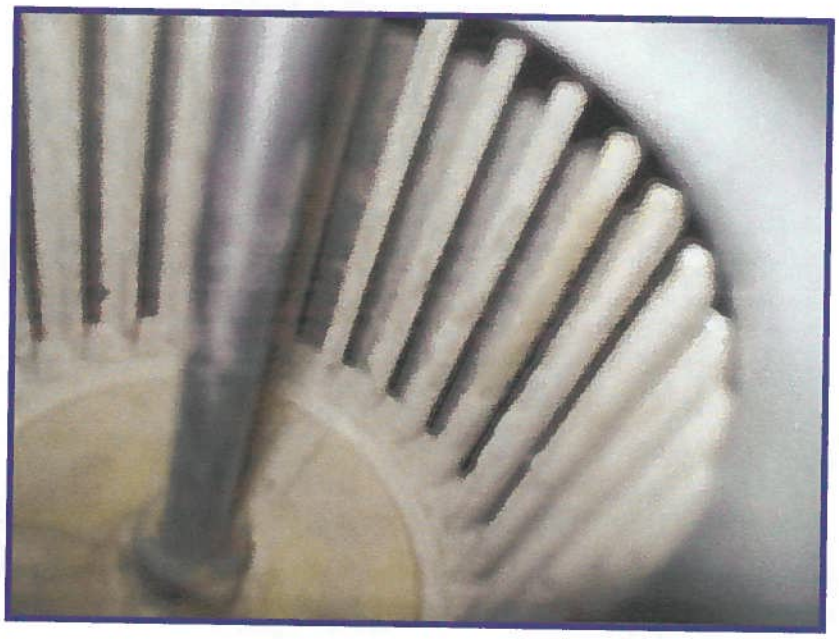
TEAM ROOM-UNIT BLOWER FAN



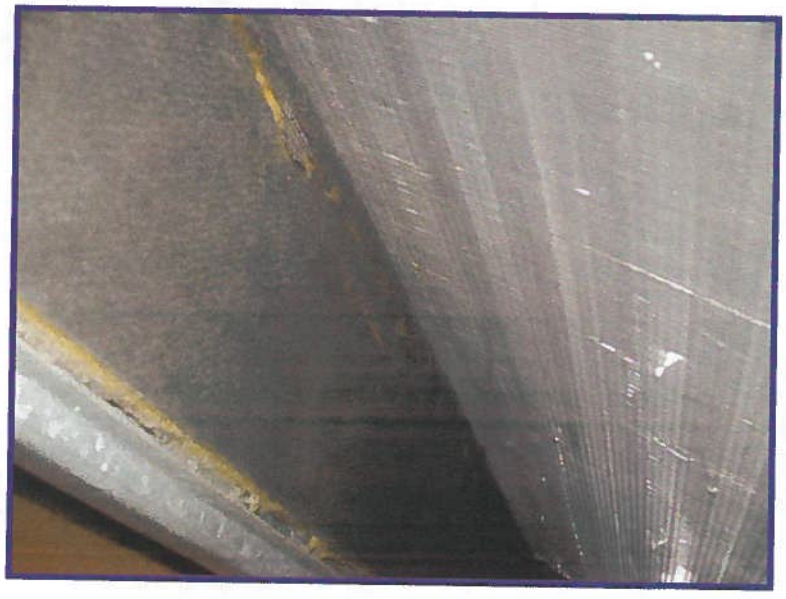
BOYS LOCKER ROOM-UNIT COIL



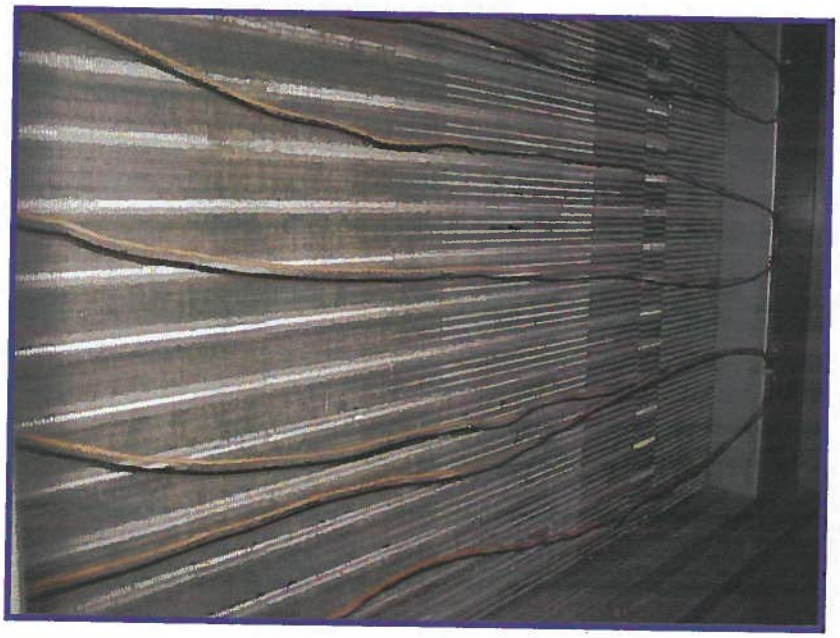
BOYS LOCKER ROOM-UNIT BLOWER



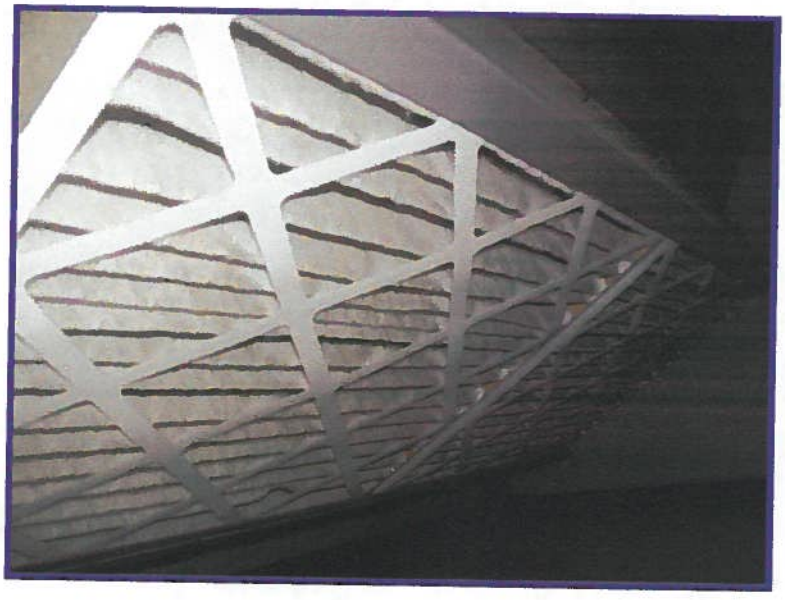
BOYS LOCKER ROOM-UNIT INSULATION



GIRLS LOCKER ROOM-UNIT COIL

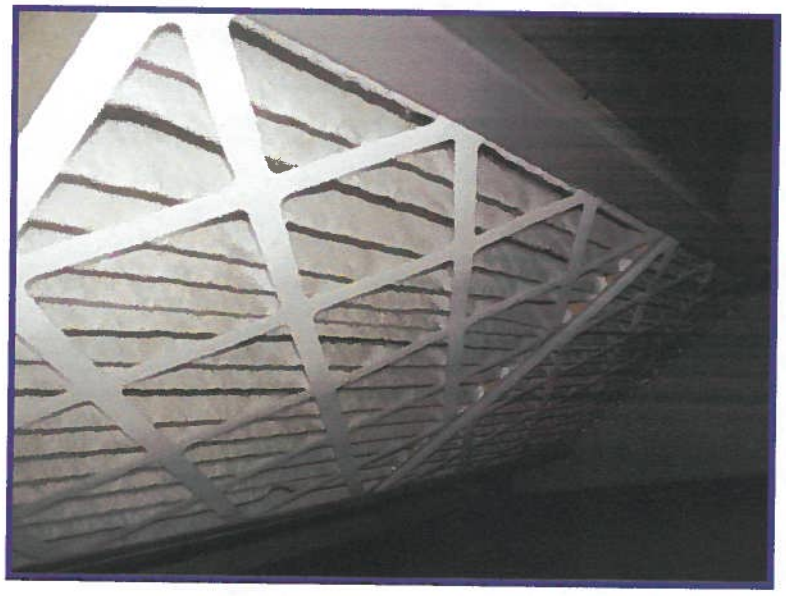


GIRLS LOCKER ROOM-UNIT INSULATION



GIRLS LOCKER ROOM-UNIT BLOWER

GIRLS LOCKER ROOM-UNIT INSULATION



UNIT BLOWER

UNIT FLOOR

UNIT CEILING

UNIT BLOWER

Prestige EnviroMicrobiology, Inc
www.prestige-em.com

Analytical Test Report

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

Client Project: SESD East Middle School

Sample date: 9-26-2012

Submittal date: 9-27-2012

Samples submitted by: Walt Saunders

Data analysis completed: October 3, 2012

Prestige report number: 120928-01

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

Prestige # / Client sample ID / Location	Air vol. (m^3)	% read	Presumptive fungal ID	Counts of fungal structures	Fungal structures/m^3	Percentage	Background rating
120928-01-001 1 Outside #1	0.075	25.5	*Arthrinium*	1	52	1%	
			ascospores	14	730	20%	
			basidiospores	15	780	22%	
			Cercospora	1	52	1%	
			Cladosporium	32	1,700	46%	
			Curvularia	1	52	1%	
			myxomycetes	3	160	4%	
			Pithomyces	1	52	1%	
			Pen/Asp-like	1	52	1%	
					Total 3,600		1
120928-01-002 2 Rm 126	0.075	25.5	ascospores	1	52	5%	
			basidiospores	2	100	9%	
			Cladosporium	6	310	27%	
			Epicoccum	1	52	5%	
			Ganoderma	1	52	5%	
			hyphal fragments	1	52	5%	
			myxomycetes	7	370	32%	
			Pithomyces	1	52	5%	
			Pen/Asp-like	2	100	9%	
					Total 1,100		3
120928-01-003 3 Rm 124	0.075	25.5	basidiospores	2	100	9%	
			Cladosporium	1	52	4%	
			hyphal fragments	1	52	4%	
			myxomycetes	13	680	57%	
			Pithomyces	1	52	4%	
			Pen/Asp-like	4	210	17%	
			unknowns	1	52	4%	
					Total 1,200		3
120928-01-004 4 Office Area	0.075	25.5	*Alternaria*	1	52	4%	
			basidiospores	1	52	4%	
			Cladosporium	2	100	8%	
			Curvularia	1	52	4%	
			Epicoccum	1	52	4%	
			hyphal fragments	2	100	8%	
			myxomycetes	15	780	63%	
			Pithomyces	1	52	4%	
					Total 1,200		3

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

120928-01-005 5 Cafeteria	0.075	25.5	basidiospores *Cladosporium* hyphal fragments myxomycetes	1 1 1 5	52 52 52 260 Total 420	13% 13% 13% 63%	1
120928-01-006 6 Outside #2	0.075	25.5	*Alternaria* ascospores basidiospores *Cercospora* *Cladosporium* *Epicoccum* *Ganoderma* hyphal fragments myxomycetes Pen/Asp-like	1 27 31 1 19 1 1 1 2 2	52 1,400 1,600 52 990 52 52 52 100 100 Total 4,500	1% 31% 36% 1% 22% 1% 1% 1% 2% 2%	1
120928-01-007 7 Weight Rm	0.075	25.5	*Alternaria* *Cladosporium* hyphal fragments myxomycetes *Pithomyces*	1 1 1 7 1	52 52 52 370 52 Total 580	9% 9% 9% 64% 9%	3
120928-01-008 8 Wrestle Room	0.075	25.5	*Alternaria* ascospores *Cladosporium* hyphal fragments myxomycetes *Pithomyces*	1 1 1 1 3 1	52 52 52 52 160 52 Total 420	13% 13% 13% 13% 38% 13%	2
120928-01-009 9 Boys Training Rm	0.075	25.5	*Alternaria* ascospores basidiospores *Curvularia* *Epicoccum* myxomycetes *Pithomyces*	1 1 1 1 1 18 1	52 52 52 52 52 940 52 Total 1,300	4% 4% 4% 4% 4% 75% 4%	2
120928-01-010 10 Boys Locker Rm	0.075	25.5	basidiospores *Cladosporium* *Ganoderma* hyphal fragments myxomycetes *Pithomyces*	1 3 1 1 7 1	52 160 52 52 370 52 Total 740	7% 21% 7% 7% 50% 7%	2
120928-01-011 11 Library Office	0.075	25.5	*Alternaria* basidiospores *Ganoderma* myxomycetes *Pithomyces*	1 1 1 4 2	52 52 52 210 100 Total 470	11% 11% 11% 44% 22%	2

120928-01-012 12 Girls Locker Rm	0.075	25.5	*Alternaria* basidiospores *Cladosporium* hyphal fragments myxomycetes *Pithomyces* Pen/Asp-like	1 1 1 2 2 1 1	52 52 52 100 100 52 52 Total 460	11% 11% 11% 22% 22% 11% 11%	2
120928-01-013 13 Girls Team Rm	0.075	25.5	ascospores basidiospores *Cladosporium* *Ganoderma* hyphal fragments myxomycetes *Pithomyces*	1 2 4 1 1 7 1	52 100 210 52 52 370 52 Total 890	6% 12% 24% 6% 6% 41% 6%	2
120928-01-014 14 Library	0.075	25.5	ascospores basidiospores *Epicoccum* *Ganoderma* myxomycetes *Pithomyces*	1 1 1 4 2 2	52 52 52 210 100 100 Total 570	9% 9% 9% 36% 18% 18%	2
120928-01-015 15 Outside #3	0.075	25.5	ascospores basidiospores *Cladosporium* *Epicoccum* hyphal fragments myxomycetes *Nigrospora* *Torula herbarum*	7 30 12 2 1 1 1 1	370 1,600 630 100 52 52 52 52 Total 2,900	13% 55% 22% 4% 2% 2% 2% 2%	1
120928-01-016 16 Rm 135	0.075	25.5	*Cladosporium* *Ganoderma* myxomycetes *Nigrospora*	1 7 2 1	52 370 100 52 Total 570	9% 64% 18% 9%	1
120928-01-017 17 Rm 137	0.075	25.5	*Alternaria* *Cladosporium* *Epicoccum* hyphal fragments rusts	1 1 1 1 1	52 52 52 52 52 Total 260	20% 20% 20% 20% 20%	2

120928-01-018 18 Outside #4	0.075	25.5	*Alternaria*	1	52	1%	
			Arthrinium	1	52	1%	
			ascospores	7	370	10%	
			basidiospores	34	1,800	50%	
			Cladosporium	17	890	25%	
			Epicoccum	1	52	1%	
			hyphal fragments	1	52	1%	
			myxomycetes	3	160	4%	
			Pithomyces	1	52	1%	
			Pen/Asp-like	1	52	1%	
			Torula herbarum	1	52	1%	
					Total 3,600		1
120928-01-019 19 Rm 224	0.075	25.5	ascospores	1	52	6%	
			basidiospores	1	52	6%	
			Cladosporium	6	310	35%	
			Epicoccum	2	100	12%	
			Ganoderma	1	52	6%	
			hyphal fragments	1	52	6%	
			myxomycetes	3	160	18%	
			rusts	2	100	12%	
					Total 880		3
120928-01-020 20 Rm 222	0.075	25.5	basidiospores	1	52	10%	
			Curvularia	1	52	10%	
			hyphal fragments	1	52	10%	
			myxomycetes	5	260	50%	
			Pithomyces	1	52	10%	
			rusts	1	52	10%	
					Total 520		2
120928-01-021 21 Gym 1	0.075	25.5	basidiospores	2	100	50%	
			Cladosporium	1	52	25%	
			rusts	1	52	25%	
					Total 200		1
120928-01-022 22 Gym 2	0.075	25.5	basidiospores	1	52	14%	
			Cladosporium	1	52	14%	
			myxomycetes	2	100	29%	
			rusts	1	52	14%	
			Polythrincium	1	52	14%	
			Torula herbarum	1	52	14%	
					Total 360		1
120928-01-023 23 Outside #5	0.075	25.5	*Arthrinium*	1	52	2%	
			ascospores	5	260	12%	
			basidiospores	15	780	37%	
			Cercospora	1	52	2%	
			Cladosporium	10	520	24%	
			Epicoccum	1	52	2%	
			hyphal fragments	2	100	5%	
			myxomycetes	3	160	7%	
			Nigrospora	1	52	2%	
			Oidium	1	52	2%	
			Pestalotiopsis	1	52	2%	
					Total 2,100		1

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

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

Report review:

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.

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

Prestige Proj.#: 120928-01

1 of 16

Chain-of-Custody and Analysis Request Form

Client name: Vicac Corp Tel: _____ Client proj.#: SESD East Middle School

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: 9/26/12

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water, potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
~~OUTS~~ #1	Outside #1	Spore Trap	75L			Pac1	
2	Rm 126						
3	Rm 124						
4	Office Area						
5	Cafeteria						
6	Outside #2						
7	Weight Rm						
8	Wrestle Room						
9	Boys Training Rm						
10	Boys Locker Rm						
11	Library Office						

Contact name: Walt Saunders Submitted by: (sign & print) Walt Saunders Date submitted. 9/27/12

Received by: (sign & print) K Billick, K. Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

2 of 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
~~Girls~~ 12	Girls Locker Rm	Spore Trap	75		Poc.1		
13	Girls Team Rm						
14	Library						
15	Outside #3						
16	Rm 135						
17	Rm 137						
18	Outside #4						
19	Rm 224						
20	Rm 222						
21	Gym 1						
22	Gym 2						
23	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted. _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9.28.12, 9:30AM Delivered by: Fedex (UPS) USPO. in person

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

09

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

30 12

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (LV Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
Outs #24	Outside #1	TSA	113-2		M232		
25	Rm 126						
26	Rm 124						
27	Office Area						
32	Cafeteria						
29	Outside #2						
30	Weight Rm						
31	Wrestle Room						
32	Boys Training Rm						
33	Boys Locker Rm						
34	Library Office						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12 9:30am Delivered by: Fedex (UPS) USPO. in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

4 of 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
~~G~~ 35	Girls Locker Rm	TSA	113.2		PC22		
36	Girls Team Rm						
37	Library						
38	Outside #3						
39	Rm 135						
40	Rm 137						
41	Outside #4						
42	Rm 224						
43	Rm 222						
44	Gym 1						
45	Gym 2						
46	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex, UPS, USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

SOP 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
Out 47	OUTSIDE #1	~~TSA~~ MEA	113.2		POOL		
48	Rm 126						
49	Rm 124						
50	OFFICE AREA						
51	CAFETERIA						
52	OUTSIDE #2						
53	WEIGHT Rm						
54	WRESTLE ROOM						
55	BOYS CHANGING Rm						
56	BOYS LOCKER Rm						
57	LIBRARY OFFICE						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex, (UPS), USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L) / Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
58							
~~#47~~	Girls Locker Rm	MEA	113.2		PCR9		
~~48~~	Girls Team Rm						
~~49~~	Library						
~~50~~	Outside #3						
~~51~~	Rm 135						
~~52~~	Rm 137						
~~53~~	Outside #4						
~~54~~	Rm 224						
~~55~~	Rm 222						
~~56~~	Gym 1						
67	Gym 2						
68	Outside #5						
69							

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Billick, K Billick Date & time received: 9-28-12, 9:30am Delivered by: Fedex, (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

1 of 15

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch^2)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
70	Rm 126	SWAB	2" sq		P027		
71	Rm 126						
72	Cafeteria						
73	Kitchen Rm						
74	Cafeteria Rm						
75	Boys Team Rm						
76	Boys Locker Rm						
77	LIBRARY OFFICE						
78	Girls Locker Rm						
79	Girls Team Rm						
80	LIBRARY						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted _____

Received by: (sign & print) K Billick, K. Billick Date & time received: 9-28-12 9:30am Delivered by: Fedex (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

Set 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
81	Rm 135	SWABS	2" sq		Pa27		
82	Rm 137						
83	Rm 222						
84	Rm 224						
85	Gym 1						
86	Gym 2						
87	Gym RTU		2" sq				Blower Fan
88	Weight Rm Unit		1" sq				Blower Fan
89	Library Office		1" sq				Blower Fan
90	Library Computer		1" sq				"
91	Girls Locker Rm		1" sq				"

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Bilick, K Bilick Date & time received: 9-26-12 9:30AM Delivered by: Fedex, UPS, USPO, in person

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

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

Prestige Proj.#: 120928-01
9 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel. _____ Client proj.#: _____
Address: _____ Fax: _____ P.O.#: _____
_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L) / Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
92	Rm 222 Storage	SWABS	1"Sq		PC27		Blower Fin
93	Rm 224		1"Sq				"
94	Rm 216 LV		1"Sq				
95	Attic #3 - office		1"Sq				
96	Cafe UNIT		2"Sq				Blower Shroud
97	Girls Training Rm Unit		1"Sq				Blower Fin
98	Rm 124 LV		2"Sq				Blower Fin
99	Boys Locker Rm		2"Sq				Blower Shroud
100	Rec Room		1"Sq				Blower Fin
101	Gym Rm #2		2"Sq				Blower Fin
102	Rm 126 LV		1"Sq				Blower Fin
103	Rm 125		1"Sq				Blower Fins
							Blower Fins

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Billick, K Billick Date & time received: 9-28-12, 9:30 AM Delivered by: Fedex (UPS) USPO. in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water, potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
104	OFFICE	DUST	NA		MC24		

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12, 9:30 AM Delivered by: Fedex, (UPS) USPO, in person

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

Prestige EnviroMicrobiology, Inc
AIHA Environmental Microbiology PAT Program participant
Laboratory ID Number 192810
Website: www.prestige-em.com

Analytical Test Report

Client: Proac Corp. 8401 South Lancaster Ave, Bethel, PA 19507

Client Project: SESD East Middle School

Sample date: 9-26-2012

Submittal date: 9-27-2012

Date samples received: 9-28-2012

Date of inoculation: 9-26-2012 (Andersen)

Samples submitted by: Walt Saunders

Date analysis completed: October 5, 2012

Prestige Report number: 120928-01

Culture Method (P006): Culture Analysis of Andersen Samples for Airborne Fungi

Prestige# Client sample ID Location	Air vol. (m^3)	Media used	Fungal Identification	Colony counts	CFU/ m^3	Percentage
120928-01-047 Out 47 Outside #1	0.1132	MEA	*Alternaria alternata*	1	9	1%
			Aspergillus flavus	1	9	1%
			Cladosporium spp.	57	500	60%
			Epicoccum nigrum	1	9	1%
			Fusarium graminearum	1	9	1%
			Penicillium spp.	15	130	16%
			Pithomyces chartarum	1	9	1%
			Rhodotorula glutinis	9	80	9%
			yeasts	8	71	8%
			sterile fungi	1	9	1%
					Total 840	
120928-01-048 48 Rm 126	0.1132	MEA	*Alternaria alternata*	3	27	11%
			Aspergillus niger	1	9	4%
			Cladosporium spp.	9	80	33%
			Penicillium spp.	6	53	22%
			Phoma sp.	1	9	4%
			Pithomyces chartarum	1	9	4%
			Trichoderma harzianum	1	9	4%
			yeasts	4	35	15%
			sterile fungi	1	9	4%
					Total 240	
120928-01-049 49 Rm 124	0.1132	MEA	*Aspergillus versicolor*	1	9	5%
			Cladosporium spp.	10	88	48%
			Nigrospora sphaerica	1	9	5%
			Penicillium spp.	3	27	14%
			Pithomyces chartarum	5	44	24%
			Rhodotorula glutinis	1	9	5%
					Total 190	

120928-01-050 50 Office Area	0.1132	MEA	*Cladosporium* spp.	6	53	30%
			Curvularia lunata	2	18	10%
			Fusarium sporotrichioides	1	9	5%
			Penicillium spp.	4	35	20%
			Phoma sp.	1	9	5%
			Pithomyces chartarum	3	27	15%
			Rhodotorula glutinis	1	9	5%
			yeasts	2	18	10%
					Total 180	
120928-01-051 51 Cafeteria	0.1132	MEA	*Acrodontium intermissum*	8	71	33%
			basidiomycetes	4	35	17%
			Cladosporium spp.	8	71	33%
			Penicillium spp.	2	18	8%
			Rhodotorula glutinis	2	18	8%
					Total 210	
120928-01-052 52 Outside #2	0.1132	MEA	basidiomycetes	2	18	3%
			Cladosporium spp.	47	420	78%
			Epicoccum nigrum	1	9	2%
			Fusarium graminearum	1	9	2%
			Nigrospora sphaerica	1	9	2%
			Penicillium spp.	6	53	10%
			yeasts	2	18	3%
					Total 540	
120928-01-053 53 Weight Rm	0.1132	MEA	*Acrodontium intermissum*	10	88	38%
			Cladosporium spp.	8	71	31%
			Curvularia lunata	1	9	4%
			Epicoccum nigrum	2	18	8%
			Pithomyces chartarum	2	18	8%
			yeasts	3	27	12%
					Total 230	
120928-01-054 54 Wrestle Room	0.1132	MEA	*Acrodontium intermissum*	6	53	55%
			Cladosporium spp.	2	18	18%
			Penicillium spp.	2	18	18%
			yeasts	1	9	9%
					Total 98	
120928-01-055 55 Boys Training Rm	0.1132	MEA	*Acrodontium intermissum*	9	80	43%
			Aspergillus fumigatus	1	9	5%
			Cladosporium spp.	3	27	14%
			Phoma spp.	2	18	10%
			Pithomyces chartarum	1	9	5%
			Rhodotorula glutinis	2	18	10%
			yeasts	3	27	14%
					Total 190	
120928-01-056 56 Boys Locker Rm	0.1132	MEA	*Acrodontium intermissum*	3	27	15%
			Aspergillus versicolor	1	9	5%
			Cladosporium spp.	5	44	25%
			Epicoccum nigrum	2	18	10%
			Penicillium sp.	1	9	5%
			Pithomyces chartarum	1	9	5%
			Rhodotorula glutinis	1	9	5%
			yeasts	6	53	30%
					Total 180	

120928-01-057 57 Library Office	0.1132	MEA	*Alternaria alternata* *Cladosporium* spp. *Penicillium* spp. *Phoma* sp. *Pithomyces chartarum* *Rhodotorula glutinis* yeasts	1 7 2 1 1 1 3	9 62 18 9 9 9 27 Total 140	6% 44% 13% 6% 6% 6% 19%
120928-01-058 58 Girls Locker Rm	0.1132	MEA	*Cladosporium* spp. *Fusarium graminearum* *Fusarium sporotrichioides* *Pithomyces chartarum* yeasts	7 1 1 1 1	62 9 9 9 9 Total 98	64% 9% 9% 9% 9%
120928-01-059 59 Girls Team Rm	0.1132	MEA	*Acrodontium intermissum* *Cladosporium* spp. *Penicillium* spp. *Rhodotorula glutinis* yeasts	8 9 5 2 1	71 80 44 18 9 Total 220	32% 36% 20% 8% 4%
120928-01-060 60 Library	0.1132	MEA	*Acrodontium intermissum* *Alternaria alternata* *Cladosporium* spp. *Fusarium graminearum*	1 1 4 1	9 9 35 9 Total 62	14% 14% 57% 14%
120928-01-061 61 Outside #3	0.1132	MEA	*Acrodontium intermissum* *Alternaria alternata* *Cladosporium* spp. *Epicoccum nigrum* *Nigrospora sphaerica* *Penicillium* spp. *Rhodotorula glutinis* yeasts	9 1 42 6 1 3 1 1	80 9 370 53 9 27 9 9 Total 570	14% 2% 66% 9% 2% 5% 2% 2%
120928-01-062 62 Rm 135	0.1132	MEA	*Acrodontium intermissum* *Alternaria alternata* basidiomycetes *Cladosporium* spp. *Penicillium* spp. *Pithomyces chartarum* *Rhodotorula glutinis* sterile fungi	4 1 2 7 2 1 1 1	35 9 18 62 18 9 9 9 Total 170	21% 5% 11% 37% 11% 5% 5% 5%
120928-01-063 63 Rm 137	0.1132	MEA	*Cladosporium* spp. *Curvularia lunata* *Epicoccum nigrum* *Penicillium* spp. *Pithomyces chartarum* yeasts	3 1 1 2 1 1	27 9 9 18 9 9 Total 81	33% 11% 11% 22% 11% 11%

Prestige EnviroMicrobiology, Inc
AIHA Environmental Microbiology PAT Program participant
Laboratory ID Number 192810
Website: www.prestige-em.com

120928-01-064 64 Outside #4	0.1132	MEA	*Acrodontium intermissum* *Alternaria alternata* *Cladosporium* spp. *Epicoccum nigrum* *Fusarium solani* *Penicillium* spp. *Phoma* sp.	5 2 38 6 3 6 1	44 18 340 53 27 53 9 Total 540	8% 3% 62% 10% 5% 10% 2%
120928-01-065 65 Rm 224	0.1132	MEA	*Acrodontium intermissum* *Cladosporium* spp. *Penicillium* spp. *Pithomyces chartarum* yeasts	3 12 5 1 2	27 110 44 9 18 Total 210	13% 52% 22% 4% 9%
120928-01-066 66 Rm 222	0.1132	MEA	*Acrodontium intermissum* *Alternaria alternata* *Cladosporium* spp. *Rhodotorula glutinis* yeasts	2 1 6 1 1	18 9 53 9 9 Total 98	18% 9% 55% 9% 9%
120928-01-067 67 Gym 1	0.1132	MEA	*Acrodontium intermissum* *Cladosporium* spp. *Phoma* sp. *Rhodotorula glutinis* yeasts	4 5 1 1 2	35 44 9 9 18 Total 120	31% 38% 8% 8% 15%
120928-01-068 68 Gym 2	0.1132	MEA	*Acrodontium intermissum* basidiomycetes *Cladosporium* spp. *Epicoccum nigrum* yeasts	6 2 4 1 1	53 18 35 9 9 Total 120	43% 14% 29% 7% 7%
120928-01-069 69 Outside #5	0.1132	MEA	*Acrodontium intermissum* *Alternaria alternata* *Aureobasidium pullulans* *Cladosporium* spp. *Curvularia lunata* *Epicoccum nigrum* *Fusarium solani* *Penicillium* spp. yeasts sterile fungi	4 3 1 45 1 3 3 3 2 1	35 27 9 400 9 27 27 27 18 9 Total 590	6% 5% 2% 68% 2% 5% 5% 5% 3% 2%

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

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

Prestige EnviroMicrobiology, Inc
AIHA Environmental Microbiology PAT Program participant
Laboratory ID Number 192810
Website: www.prestige-em.com

Report review: Theresa Lehman

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 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. MEA = 2% malt extract agar.
5. All culture samples are incubated at 25±0.5°C unless otherwise indicated.
6. The detection limit of this analysis is one fungal colony. The quantitation limits vary from analysis to analysis and by air volume. Contact us to determine your quantitation limits.

Prestige EnviroMicrobiology, Inc

www.prestige-em.com

Analytical Test Report

Client: Proac Corp. 8401 South Lancaster Ave, Bethel, PA 19507

Client Project: SESD East Middle School

Sample date: 9-26-2012

Submittal date: 9-27-2012

Date samples received: 9-28-2012

Date of inoculation: 9-26-2012 (Andersen)

Samples submitted by: Walt Saunders

Date analysis completed: October 5, 2012

Prestige Report number: 120928-01

Culture Method (P022): Culture Analysis of Andersen Samples for Airborne Bacteria

Prestige # Client sample ID Location	Air vol. (m^3)	Media used	Bacterial Identification	Colony counts	CFU/ m^3	Percentage
120928-01-024 Out #24 Outside #1	0.1132	TSA	gram (-) bacteria	6	53	14%
			Methylobacterium spp.	11	97	26%
			Micrococcus luteus	25	220	58%
			Staphylococcus sp.	1	9	2%
					Total 380	
120928-01-025 25 Rm 126	0.1132	TSA	*Bacillus* spp.	2	18	2%
			gram (-) bacteria	8	71	7%
			Methylobacterium spp.	6	53	5%
			Micrococcus luteus	87	770	78%
			Staphylococcus spp.	9	80	8%
					Total 990	
120928-01-026 26 Rm 124	0.1132	TSA	actinomycetes	1	9	1%
			Bacillus sp.	1	9	1%
			gram (-) bacteria	11	97	9%
			Methylobacterium spp.	2	18	2%
			Micrococcus luteus	106	940	83%
			Staphylococcus spp.	6	53	5%
					Total 1,100	
120928-01-027 27 Office Area	0.1132	TSA	actinomycetes	2	18	2%
			Bacillus sp.	1	9	1%
			gram (-) bacteria	6	53	6%
			Methylobacterium spp.	5	44	5%
			Micrococcus luteus	91	800	84%
			Staphylococcus spp.	3	27	3%
					Total 950	
120928-01-028 28 Cafeteria	0.1132	TSA	actinomycetes	2	18	3%
			Bacillus spp.	2	18	3%
			gram (-) bacteria	5	44	7%
			Methylobacterium spp.	3	27	4%
			Micrococcus luteus	63	560	83%
			Staphylococcus sp.	1	9	1%
					Total 680	

120928-01-029 29 Outside #2	0.1132	TSA	*Bacillus* sp. *Flavobacterium* spp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus*	1 2 3 4 2	9 18 27 35 18 Total 110	8% 17% 25% 33% 17%
120928-01-030 30 Weight Rm	0.1132	TSA	*Bacillus* sp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus* *Staphylococcus* spp.	1 4 2 47 9	9 35 18 420 80 Total 560	2% 6% 3% 75% 14%
120928-01-031 31 Wrestle Room	0.1132	TSA	gram (-) bacteria *Micrococcus luteus* *Micrococcus roseus*	1 9 1	9 80 9 Total 98	9% 82% 9%
120928-01-032 32 Boys Training Rm	0.1132	TSA	actinomycetes *Bacillus* spp. *Flavobacterium* spp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus* *Staphylococcus* spp.	3 1 12 2 2 82 4	27 9 110 18 18 720 35 Total 940	3% 1% 11% 2% 2% 77% 4%
120928-01-033 33 Boys Locker Rm	0.1132	TSA	*Bacillus* sp. *Flavobacterium* spp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus* *Staphylococcus* spp.	1 4 2 2 87 5	9 35 18 18 770 44 Total 890	1% 4% 2% 2% 86% 5%
120928-01-034 34 Library Office	0.1132	TSA	actinomycetes *Flavobacterium* spp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus* *Staphylococcus* sp.	1 3 6 2 69 1	9 27 53 18 610 9 Total 730	1% 4% 7% 2% 84% 1%
120928-01-035 35 Girls Locker Rm	0.1132	TSA	actinomycetes gram (-) bacteria *Micrococcus luteus* *Staphylococcus* spp.	4 6 23 3	35 53 200 27 Total 320	11% 17% 64% 8%
120928-01-036 36 Girls Team Rm	0.1132	TSA	actinomycetes *Bacillus* sp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus* *Staphylococcus* spp.	1 1 5 2 62 2	9 9 44 18 550 18 Total 650	1% 1% 7% 3% 85% 3%

120928-01-037 37 Library	0.1132	TSA	actinomycetes gram (-) bacteria *Methylobacterium* sp. *Micrococcus luteus* *Staphylococcus* spp.	1 2 1 34 5	9 18 9 300 44 Total 380	2% 5% 2% 79% 12%
120928-01-038 38 Outside #3	0.1132	TSA	*Bacillus* sp. *Flavobacterium* sp. gram (-) bacteria *Micrococcus luteus*	1 1 1 6	9 9 9 53 Total 80	11% 11% 11% 67%
120928-01-039 39 Rm 135	0.1132	TSA	*Flavobacterium* spp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus* *Staphylococcus* spp.	4 3 4 71 2	35 27 35 630 18 Total 750	5% 4% 5% 85% 2%
120928-01-040 40 Rm 137	0.1132	TSA	*Bacillus* sp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus* *Staphylococcus* spp.	1 2 3 42 6	9 18 27 370 53 Total 480	2% 4% 6% 78% 11%
120928-01-041 41 Outside #4	0.1132	TSA	*Bacillus* sp. gram (-) bacteria *Methylobacterium* sp. *Micrococcus luteus*	1 3 1 4	9 27 9 35 Total 80	11% 33% 11% 44%
120928-01-042 42 Rm 224	0.1132	TSA	*Bacillus* spp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus* *Staphylococcus* spp.	3 5 2 38 9	27 44 18 340 80 Total 510	5% 9% 4% 67% 16%
120928-01-043 43 Rm 222	0.1132	TSA	*Flavobacterium* sp. gram (-) bacteria *Methylobacterium* spp. *Micrococcus luteus* *Staphylococcus* spp.	1 4 2 53 2	9 35 18 470 18 Total 550	2% 6% 3% 85% 3%
120928-01-044 44 Gym 1	0.1132	TSA	gram (-) bacteria *Micrococcus luteus*	1 1	9 9 Total 18	50% 50%
120928-01-045 45 Gym 2	0.1132	TSA	actinomycetes *Bacillus* sp. *Flavobacterium* spp. *Micrococcus luteus*	1 1 2 8	9 9 18 71 Total 110	8% 8% 17% 67%
120928-01-046 46 Outside #5	0.1132	TSA	*Bacillus* spp. gram (-) bacteria *Micrococcus luteus* *Staphylococcus* sp.	24 1 2 1	210 9 18 9 Total 250	86% 4% 7% 4%

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

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

Report review: Theresa Lehman

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 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. TSA = tryptic soy agar.
5. All culture samples are incubated at 25±0.5°C unless otherwise indicated.
6. The detection limit of this analysis is one bacterial colony. The quantitation limits vary from analysis to analysis and by air volume. Contact us to determine your quantitation limits.

Prestige EnviroMicrobiology, Inc. Tel: 856-767-8300 Fax: 856-767-8305 Prestige Proj.#: 120928-01
242 Terrace Boulevard., Suite B-1. Voorhees. New Jersey 08043

1 of 16

Chain-of-Custody and Analysis Request Form

Client name: Prosac Corp Tel: _____ Client proj.#: SEED East Middle School
Address: _____ Fax: _____ P.O.#: _____
_____ E-mail: _____ Date sampled: 9/26/12

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
~~Duck~~ #1	Outside #1	Spore Trap	75L			PC01	
2	Rm 126						
3	Rm 124						
4	Office Area						
5	Cafeteria						
6	Outside #2						
7	Weight Rm						
8	Wrestle Room						
9	Boys Training Rm						
10	Boys Locker Rm						
11	Library Office						

Contact name: Walt Saunders Submitted by: (sign & print) Walt Saunders Date submitted: 9/27/12

Received by: (sign & print) K Billick, K. Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

2 of 10

Client name: _____ Tel. _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
12	Girls Locker Rm	Spore Trap	75		Pool		
13	Girls Team Rm						
14	Library						
15	Outside #3						
16	Rm 135						
17	Rm 137						
18	Outside #4						
19	Rm 224						
20	Rm 222						
21	Gym 1						
22	Gym 2						
23	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9.28.12, 9:30am Delivered by: Fedex (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

3 of 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch^2)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
Out #24	OUTSIDE #1	TSA	113.2		AQ22		
25	Rm 126						
26	Rm 124						
27	OFFICE AREA						
28	CAFETERIA						
29	OUTSIDE #2						
30	WEIGHT Rm						
31	WRESTLE ROOM						
32	BOYS TRAINING Rm						
33	BOYS LOCKER Rm						
34	LIBERERY OFFICE						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Blick, K. Billick Date & time received: 9-28-12 9:30AM Delivered by: Fedex (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

4 of 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch^2)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
Girls 35	Girls Locker Rm	TSP	113.2		P022		
36	Girls Team Rm						
37	Library						
38	Outside #3						
39	Rm 135						
40	Rm 137						
41	Outside #4						
42	Rm 224						
43	Rm 222						
44	Gym 1						
45	Gym 2						
46	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex, UPS, USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

5 of 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch^2)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
Out 47	OUTSIDE #1	~~TSB~~ MEA	113.2		POOL		
48	Rm 126						
49	Rm 124						
50	OFFICE AREA						
51	CAFETERIA						
52	OUTSIDE #2						
53	WEIGHT Rm						
54	WRESTL. ROOM						
55	BOYS TRAINING Rm						
56	BOYS LOCKER Rm						
57	LIBRARY OFFICE						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K Billick Date & time received: 9-28-12 9:30AM Delivered by: Fedex, (UPS), USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

6 of 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
58	Girls Locker Rm	MEA	113.2		Pool		
59	Girls Team Rm						
60	Library						
61	Outside #3						
62	Rm 135						
63	Rm 137						
64	Outside #4						
65	Rm 224						
66	Rm 222						
67	Gym 1						
68	Gym 2						
69	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Billick, K Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex, (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

1 of 2

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
70	Rm 126	SWAB	2"sq		PC27		
71	Rm 124						
72	Cafeteria						
73	Weight Rm						
74	Wrestle Rm						
75	Boys Team Rm						
76	Boys Locker Rm						
77	Library office						
78	Girls Locker Rm						
79	Girls Team Rm						
80	Library						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Billick, K. Billick Date & time received: 9-28-12 9:30am Delivered by: Fedex UPS USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

8 of 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L) / Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
81	Rm 135	SWAB	2" Sq		Pest		
82	Rm 137						
83	Rm 222						
84	Rm 224						
85	Gym 1						
86	Gym 2						
87	Gym RTU		2" Sq				
88	Weight Rm Unit		1" Sq				Blower Fan
89	Library Office		1" Sq				Blower Fan
90	Library Seminar		1" Sq				Blower Fan
91	Girls Locker Rm		1" Sq				"
							"

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Bllick, K Billick Date & time received: 9-28-12 9:30AM Delivered by: Fedex UPS USPO. in person

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

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

Prestige Proj.#: 120928-01
9of12

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____
Address: _____ Fax: _____ P.O.#: _____
_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
92	Rm 222 Storage	Swabs	1" Sq		PC27		Blower Fin
93	Rm 224		1" Sq				"
94	Rm 216 UV		1" Sq				
95	Attic #3 - office		1" Dsq				
96	Café Unit		2" Sq				Blower Shroud
97	Girls Training Rm Unit		1" Sq				Blower Fin
98	Rm 124 UV		2" Dsq				Blower Fins
99	Boys Locker Rm		2" Sq				Blower Shroud
100	Boys Town Room		1" Sq				Blower Fin
101	Gym Rm #2		2" Sq				Blower Fins
102	Rm 126 UV		1" Sq				Blower Fin
103	Rm 135		1" Sq				Blower Fins

Contact name: _____ Submitted by: (sign & print) _____ Date submitted _____

Received by: (sign & print) K Billick, K Billick Date & time received: 9-28-12, 9:30 AM Delivered by: Fedex (UPS) USPO in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
104	OFFICE	DUST	NA		MC24		

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12 9:30 AM Delivered by: Fedex, (UPS) USPO, in person

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

Prestige EnviroMicrobiology, Inc

Analytical Test Report

Client: Proac Corp. 8401 South Lancaster Ave, Bethel, PA 19507

Client Project: SESD East Middle School

Sample date: 9-26-2012

Submittal date: 9-27-2012

Date samples received: 9-28-2012

Date of inoculation: 9-28-2012 (Swabs)

Samples submitted by: Walt Saunders

Date analysis completed: October 5, 2012

Prestige Report number: 120928-01

Culture Method (P027): Culture Analysis of Swab Samples for Fungi and Bacteria

Prestige # Client sample ID Location	Area (in^2)	Medium used	Dilution factor	Fungal/Bacterial Identification	Colony counts	Conc. (CFU/in^2)	Percentage
120928-01-070 70 Rm 126	2	MEA	100x	*Aspergillus niger*	1	50	5%
				Cladosporium spp.	6	300	30%
				Epicoccum nigrum	4	200	20%
				Trichoderma harzianum	6	300	30%
				yeasts	3	150	15%
						Total 1,000	
		TSA	10,000x	Bacteria, overloaded	>500	>2,500,00	NA
				Flavobacterium spp.			
				gram (-) bacteria			
				Pseudomonas spp.			
						Total >2,500,000	
120928-01-071 71 Rm 124	2	MEA	100x	*Aureobasidium pullulans*	4	200	2%
				Cladosporium sp.	1	50	1%
				Epicoccum nigrum	1	50	1%
				Fusarium graminearum	1	50	1%
				Fusarium solani	1	50	1%
				Pithomyces chartarum	1	50	1%
				Rhodotorula glutinis	2	100	1%
				yeasts	184	9,200	94%
						Total 9,800	
		TSA	10,000x	Bacteria, overloaded	>500	>2,500,000	NA
				gram (-) bacteria			
				Pseudomonas spp.			
						Total >2,500,000	

120928-01-072 72 Cafeteria	2	MEA	1,000x	*Cladosporium* spp. *Fusarium sporotrichioides*	2 28	1,000 14,000 Total 15,000	7% 93%
		TSA	10,000x	Bacteria, overloaded *Flavobacterium* spp. gram (-) bacteria	>500	>2,500,000 Total >2,500,000	NA
120928-01-073 73 Weight Rm	2	MEA	100x	*Fusarium sporotrichioides* *Penicillium* sp. yeasts	1 1 11	50 50 550 Total 650	8% 8% 85%
		TSA	10,000x	*Flavobacterium* spp. gram (-) bacteria gram (+) bacteria *Pseudomonas* spp.	38 135 43 16	190,000 680,000 220,000 80,000 Total 1,200,000	16% 58% 19% 7%
120928-01-074 74 Wrestle Rm	2	MEA	100x	*Alternaria alternata* *Epicoccum nigrum* yeasts	1 1 1	50 50 50 Total 150	33% 33% 33%
		TSA	10,000x	Bacteria, overloaded *Flavobacterium* spp. gram (-) bacteria gram (+) bacteria *Pseudomonas* spp. *Staphylococcus* spp.	>500	>2,500,000 Total >2,500,000	NA
120928-01-075 75 Boys Team Rm	2	MEA	1,000x	*Acremonium* spp. *Epicoccum nigrum* *Rhodotorula glutinis* yeasts	3 1 5 9	1,500 500 2,500 4,500 Total 9,000	17% 6% 28% 50%
		TSA	10,000x	Bacteria, overloaded *Flavobacterium* spp. gram (-) bacteria gram (+) bacteria *Pseudomonas* spp.	>500	>2,500,000 Total >2,500,000	NA

120928-01-076 76 Boys Locker Rm	2	MEA	100x	*Acremonium* sp.	1	50	4%
				Cladosporium sp.	1	50	4%
				Curvularia lunata	1	50	4%
				Fusarium solani	1	50	4%
				Fusarium sporotrichioides	1	50	4%
				Fusarium sp.	2	100	7%
				Pithomyces chartarum	2	100	7%
				Rhodotorula glutinis	3	150	11%
				yeasts	15	750	56%
						Total 1,400	
		TSA	10,000x	Bacteria, overloaded	>500	>2,500,000	
				Flavobacterium spp.			
				gram (-) bacteria			
				gram (+) bacteria			
				Pseudomonas spp.			NA
						Total >2,500,000	
120928-01-077 77 Library Office	2	MEA	100x	*Rhodotorula glutinis*	37	1,900	100%
						Total 1,900	
		TSA	1,000x	gram (-) bacteria	31	16,000	13%
				Methylobacterium spp.	3	1,500	1%
				Pseudomonas spp.	228	110,000	86%
						Total 130,000	
120928-01-078 78 Girls Locker Rm	2	MEA	100x	*Curvularia lunata*	1	50	17%
				yeasts	5	250	83%
						Total 300	
		TSA	1,000x	*Flavobacterium* spp.	310	160,000	100%
				gram (+) bacteria	1	500	<1%
						Total 160,000	
120928-01-079 79 Girls Team Rm	2	MEA	100x	*Alternaria alternata*	1	50	1%
				Curvularia lunata	2	100	3%
				Exophiala spp.	4	200	6%
				Fusarium sporotrichioides	2	100	3%
				Pithomyces chartarum	14	700	21%
				Rhodotorula glutinis	22	1,100	32%
				yeasts	23	1,200	34%
						Total 3,500	
		TSA	10,000x	*Bacillus* spp.	5	25,000	13%
				gram (-) bacteria	28	140,000	70%
				gram (+) bacteria	6	30,000	15%
				Methylobacterium sp.	1	5,000	3%
						Total 200,000	
120928-01-080 80 Library	2	MEA	100x	*Alternaria alternata*	1	50	10%
				Epicoccum nigrum	1	50	10%
				Rhodotorula glutinis	6	300	60%
				yeasts	2	100	20%
						Total 500	
		TSA	100x	*Bacillus spp.*	6	300	86%
				Micrococcus luteus	1	50	14%
						Total 350	

120928-01-081 81 Rm 135	2	MEA	100x	*Fusarium sporotrichioides*	1	50 Total 50	100%
		TSA	100x	*Flavobacterium* spp.	4	200	33%
				gram (-) bacteria	5	250	42%
				Pseudomonas spp.	3	150	25%
						Total 600	
120928-01-082 82 Rm 137	2	MEA	100x	*Trichoderma harzianum*	6	300 Total 300	100%
		TSA	100x	*Flavobacterium* spp.	1	50	33%
				gram (-) bacteria	2	100	67%
						Total 150	
120928-01-083 83 Rm 222	2	MEA	100x	No fungal growth observed	ND	<50 Total <50	NA
		TSA	100x	*Flavobacterium* spp.	16	800	53%
				gram (-) bacteria	8	400	27%
				gram (+) bacteria	4	200	13%
				Pseudomonas spp.	2	100	7%
						Total 1,500	
120928-01-084 84 Rm 224	2	MEA	100x	*Aureobasidium pullulans*	2	100	11%
				Epicoccum nigrum	1	50	6%
				Rhodotorula glutinis	15	750	83%
						Total 900	
		TSA	10,000x	*Bacillus* spp.	2	10,000	4%
				Flavobacterium spp.	8	40,000	15%
				gram (-) bacteria	33	170,000	65%
				gram (+) bacteria	6	30,000	12%
				Methylobacterium spp.	2	10,000	4%
						Total 260,000	
120928-01-085 85 Gym 1	2	MEA	100x	*Aureobasidium pullulans*	1	50	1%
				Cladosporium sp.	1	50	1%
				Epicoccum nigrum	3	150	3%
				Geotrichum candidum	5	250	5%
				Pithomyces chartarum	2	100	2%
				Rhodotorula glutinis	30	1,500	28%
				yeasts	64	3,200	60%
						Total 5,300	
		TSA	10,000x	*Bacillus* spp.	42	210,000	88%
				gram (-) bacteria	6	30,000	13%
						Total 240,000	
120928-01-086 86 Gym 2	2	MEA	10,000x	*Rhodotorula glutinis*	18	90,000	82%
				yeasts	4	20,000	18%
						Total 110,000	
		TSA	10,000x	Bacteria, overloaded	>500	>2,500,00	NA
				Bacillus spp.			
				gram (-) bacteria			
				Pseudomonas spp.			
						Total >2,500,000	

120928-01-087 87 Gym RTU	2	MEA	100x	*Acrodontium intermissum* *Cladosporium* sp. *Phoma* sp. yeasts	2 1 1 16	100 50 50 800 Total 1,000	10% 5% 5% 80%
		TSA	1,000x	*Flavobacterium* spp. *Micrococcus roseus*	42 1	21,000 500 Total 22,000	98% 2%
120928-01-088 88 Weight Rm Unit	1	MEA	100x	No fungal growth observed	ND	<100 Total <100	NA
		TSA	100x	No bacterial growth observed	ND	<100 Total <100	NA
120928-01-089 89 Library Office	1	MEA	100x	*Rhodotorula glutinis* yeasts	26 4	2,600 400 Total 3,000	87% 13%
		TSA	100x	*Bacillus* sp. *Methylobacterium* spp.	1 5	100 500 Total 600	17% 83%
120928-01-090 90 Library Scanner	1	MEA	100x	*Alternaria alternata* *Aspergillus flavus* *Cladosporium* spp. *Epicoccum nigrum* *Fusarium graminearum* *Rhodotorula glutinis* yeasts	6 1 8 2 2 4 31	600 100 800 200 200 400 3,100 Total 5,400	11% 2% 15% 4% 4% 7% 57%
		TSA	100x	*Bacillus* spp. gram (-) bacteria	3 7	300 700 Total 1,000	30% 70%
120928-01-091 91 Girls Locker Rm	1	MEA	100x	No fungal growth observed	ND	<100 Total <100	NA
		TSA	100x	*Bacillus* spp.	2	200 Total 200	100%
120928-01-092 92 Rm 222 Storage	1	MEA	1,000x	*Aureobasidium pullulans* *Epicoccum nigrum* *Pithomyces chartarum* *Rhodotorula glutinis* yeasts	2 3 1 30 9	2,000 3,000 1,000 30,000 9,000 Total 45,000	4% 7% 2% 67% 20%
		TSA	100x	*Flavobacterium* spp. *Methylobacterium*	42 15	4,200 1,500 Total 5,700	74% 26%

120928-01-093 93 Rm 224	1	MEA	1,000x	*Cladosporium* spp. yeasts sterile fungi	182 2 1	180,000 2,000 1,000 Total 180,000	98% 1% 1%
		TSA	1,000x	*Bacillus* spp. gram (-) bacteria gram (+) bacteria *Staphylococcus* spp.	23 3 1 2	23,000 3,000 1,000 2,000 Total 29,000	79% 10% 3% 7%
120928-01-094 94 Rm 216 UV	1	MEA	100x	*Cladosporium* sp. *Paecilomyces variotii*	1 1	100 100 Total 200	50% 50%
		TSA	100x	*Micrococcus luteus*	2	200 Total 200	100%
120928-01-095 95 AHU #3 – office	1	MEA	10,000x	*Cladosporium* spp.	36	360,000 Total 360,000	100%
		TSA	100x	*Bacillus* spp. gram (-) bacteria	15 54	1,500 5,400 Total 6,900	22% 78%
120928-01-096 96 Café Unit	2	MEA	1,000x	*Acrodontium intermissum* *Alternaria alternata* *Cladosporium* spp. *Epicoccum nigrum* sterile fungi	5 1 11 5 1	2,500 500 5,500 2,500 500 Total 12,000	22% 4% 48% 22% 4%
		TSA	100x	*Bacillus* spp. gram (-) bacteria	4 12	200 600 Total 800	25% 75%
120928-01-097 97 Girls Training Rm Unit	1	MEA	1,000x	*Alternaria alternata* *Aureobasidium pullulans* *Epicoccum nigrum* *Fusarium solani* *Rhodotorula glutinis* yeasts	2 7 4 1 4 48	2,000 7,000 4,000 1,000 4,000 48,000 Total 66,000	3% 11% 6% 2% 6% 73%
		TSA	1,000x	*Bacillus* spp. gram (-) bacteria gram (+) bacteria *Staphylococcus* sp.	4 18 2 1	4,000 18,000 2,000 1,000 Total 25,000	16% 72% 8% 4%
120928-01-098 98 Rm 124 UV	2	MEA	100x	*Epicoccum nigrum*	1	50 Total 50	100%
		TSA	100x	No bacterial growth observed	ND	<50 Total <50	NA
120928-01-099 99 Boys Locker Rm	2	MEA	100x	No fungal growth observed	ND	<50 Total <50	NA
		TSA	100x	*Micrococcus luteus*	1	50 Total 50	100%

120928-01-100 100 Boys Team Room	1	MEA	100x	*Alternaria alternata* *Aspergillus flavus* *Cladosporium* spp. *Epicoccum nigrum* *Penicillium* spp. *Pithomyces chartarum*	6 1 7 22 2 6	600 100 700 2,200 200 600 Total 4,400	14% 2% 16% 50% 5% 14%
		TSA	100x	*Bacillus* sp.	1	100 Total 100	100%
120928-01-101 101 Gym RTU #2	2	MEA	1,000x	*Aureobasidium pullulans* *Rhodotorula glutinis* yeasts	2 3 51	1,000 1,500 26,000 Total 29,000	4% 5% 91%
		TSA	100x	*Flavobacterium* spp. gram (-) bacteria gram (+) bacteria *Methylobacterium* spp. *Micrococcus luteus*	4 2 6 54 1	200 100 300 2,700 50 Total 3,400	6% 3% 9% 81% 1%
120928-01-102 102 Rm 126 UV	1	MEA	10,000x	*Pithomyces chartarum* *Rhodotorula glutinis* *Trichoderma harzianum* yeasts	1 10 3 4	10,000 100,000 30,000 40,000 Total 180,000	6% 56% 17% 22%
		TSA	1,000x	*Bacillus* spp. *Flavobacterium* spp. gram (-) bacteria *Staphylococcus* spp.	3 18 10 4	3,000 18,000 10,000 4,000 Total 35,000	9% 51% 29% 11%
120928-01-103 103 Rm 135	1	MEA	100x	yeasts	2	200 Total 200	100%
		TSA	100x	No bacterial growth observed	ND	<100 Total <100	NA

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

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

Report review: Theresa Lehman

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 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. MEA = 2% malt extract agar. TSA = tryptic soy agar. ND = not detected. NA = not applicable.
5. All culture samples are incubated at 25±0.5°C unless otherwise indicated.
6. The detection limit of this analysis is one fungal/bacterial colony. The quantitation limits vary from analysis to analysis and by air volume. Contact us to determine your quantitation limits.

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

Prestige Proj.#: 120928-01
1 of 12

Chain-of-Custody and Analysis Request Form

Client name: Pione Corp Tel. ______ Client proj.#: SESD East Middle School
Address: ______ Fax: ______ P.O.#: ______
E-mail: ______ Date sampled: 9/26/12

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
#1	Outside #1	Spore Trap	75L			PCCI	
2	Rm 126						
3	Rm 124						
4	Office Area						
5	Cafeteria						
6	Outside #2						
7	Weight Rm						
8	Wrestle Room						
9	Boys Training Rm						
10	Boys Locker Rm						
11	Library Office						

Contact name: Walt Saunders Submitted by: (sign & print) Walt Saunders Date submitted 9/27/12

Received by: (sign & print) K Billick, K. Billick Date & time received: 9-28-12, 9:30am Delivered by: Fedex, UPS, USPO, in person

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

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

Prestige Proj.#: 120928-01

2 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel. _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
12	Girls Locker Rm	Spore Trap	75		PCCI		
13	Girls Team Rm						
14	Library						
15	Outside #3						
16	Rm 135						
17	Rm 137						
18	Outside #4						
19	Rm 224						
20	Rm 222						
21	Gym 1						
22	Gym 2						
23	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9.28.12, 9:30AM Delivered by: Fedex (UPS) USPO, in person

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

97

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

Prestige Proj.#: 120928-01

3 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch^2)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
Out #24	Outside #1	TSA	113.2		P522		
25	Rm 126						
26	Rm 124						
27	Office Area						
28	Cafeteria						
29	Outside #2						
30	Weight Rm						
31	Wrestle Room						
32	Boys Training Rm						
33	Boys Locker Rm						
34	Library Office						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12 9:30AM Delivered by: Fedex UPS USPO, in person

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

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

Prestige Proj.#: 120928-01

4 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
35	Girls Locker Rm	TSA	113		P022		
36	Girls Team Rm						
31	Library						
32	Outside #3						
34	Rm 135						
40	Rm 187						
41	Outside #4						
43	Rm 224						
43	Rm 222						
44	Gym 1						
45	Gym 2						
16	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Billick, K Billick Date & time received: 9-28-12, 9:30am Delivered by: Fedex, UPS, USPO, in person

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

Prestige EnviroMicrobiology, Inc. Tel: 856-767-8300 Fax: 856-767-8305 Prestige Proj.#: 120928-01
242 Terrace Boulevard., Suite B-1, Voorhees, New Jersey 08043

50 ID

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch^2)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
Out 47	Outside #1	~~Test~~ MEP	113.2		POOL		
48	Rm 126						
49	Rm 124						
50	Office Area						
51	Cafeteria						
52	Outside #2						
53	Weight Rm						
54	Wrestle Room						
55	Boys Training Rm						
56	Boys Locker Rm						
57	Library Office						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12 9:30AM Delivered by: Fedex, UPS, USPO, in person

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

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

Prestige Proj.#: 120928-01

6 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
58							
~~60 #47~~	Girls Locker Rm	MEA	163.2		PCR		
~~59 #48~~	Girls Team Rm						
~~60 #49~~	Library						
61 ~~56~~	Outside #3						
62 ~~57~~	Rm 135						
63 ~~58~~	Rm 137						
64 ~~53~~	Outside #4						
65 ~~54~~	Rm 224						
66 ~~55~~	Rm 222						
67 ~~52~~	Gym 1						
68 -	Gym 2						
69	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K Billick Date & time received: 9-28-12, 9:30am Delivered by: Fedex, (UPS) USPO, in person

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

Prestige EnviroMicrobiology, Inc. Tel: 856-767-8300 Fax: 856-767-8305 Prestige Proj.#: 120928-01
242 Terrace Boulevard., Suite B-1, Voorhees, New Jersey 08043

1 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
70	Rm 126	SWAB	2"sq		PC27		
71	Rm 124						
72	Cafeteria						
73	Weight Rm						
74	Wrestling Rm						
75	Boys Team Rm						
76	Boys Locker Rm						
77	LIBRARY OFFICE						
78	Girls Locker Rm						
79	GIRLS Team Rm						
80	LIBRARY						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Billick, K Billick Date & time received: 9-28-12 9:30AM Delivered by: Fedex (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

Box 10

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L) / Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
81	Rm 135	SWAB	2" Sq		P027		
82	Rm 137						
83	Rm 222						
84	Rm 224						
85	Gym 1						
86	Gym 2						
87	Gym Rm		2" Sq				Blower Fan
88	Weight Rm Unit		1" Sq				Blower Fan
89	Library Office		1" Sq				Blower Fan
90	Library Storage		1" Sq				"
91	Girls Locker Rm		1" Sq				"

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Billick, K. Billick Date & time received: 9-28-12 9:30AM Delivered by: Fedex (UPS) USPO. in person

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

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

Prestige Proj.#: 120928-01
9 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
92	Rm 222 Storage	SWABS	1" Sq		PC27		Blower Fin
93	Rm 224		1" Sq				"
94	Rm 216 UV		1" Sq				
95	Attic #3 - office		1" Sq				Blower Shroud
96	Gate Unit		2" Sq				Blower Fin
97	Girls Training Rm Unit		1" Sq				Blower Fan
98	Rm 124 UV		2" Sq				Blower Shroud
99	Boys Locker Rm		2" Sq				Blower Fin
100	Resp Town Room		1" Sq				Blower Fin
101	Gym Rm #2		2" Sq				Blower Fin
102	Rm 126 UV		1" Sq				Blower Fins
103	Rm 135		1" Sq				Blower Fins

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Blick, K Billick Date & time received: 9-28-12, 9:30 AM Delivered by: Fedex (UPS) USPO. in person

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

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

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
104	OFFICE	DUST	N/A		PC24		

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Black, K Billick Date & time received: 9-28-12, 9:30 AM Delivered by: Fedex, UPS, USPO, in person

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

Prestige EnviroMicrobiology, Inc

Analytical Test Report

Client: Proac Corp. 8401 South Lancaster Ave, Bethel, PA 19507

Client Project: SESD East Middle School

Sample date: 9-26-2012

Submittal date: NA

Date samples received: 10-3-2012

Date of inoculation: 10-3-2012 (Dust)

Samples submitted by: Walt Saunders

Date analysis completed: October 10, 2012

Prestige Report number: 120928-01

Culture Method (P027): Culture Analysis of Dust Samples for Fungi and Bacteria

Prestige # Client sample ID Location Total dust wt. (g)	Wt. (g)	Medium used	Dilution factor	Fungal/Bacterial Identification	Colony counts	Conc. (CFU/in²)	Percentage
120928-01-103-1 104 Office (0.0468g)	0.0468	MEA	1,000x	basidiomycetes	2	43,000	6%
				Cladosporium spp.	3	64,000	9%
				Curvularia lunata	2	43,000	6%
				Epicoccum nigrum	5	110,000	15%
				Fusarium sporotrichioides	1	21,000	3%
				Pithomyces chartarum	6	130,000	18%
				Rhodotorula glutinis	2	43,000	6%
				Trichoderma harzianum	1	21,000	3%
				yeasts	12	260,000	35%
						Total 740,000	
		TSA	10,000x	*Bacillus* spp.	4	850,00	5%
				Flavobacterium spp.	42	9,000,000	52%
				gram (-) bacteria	5	1,100,000	6%
				gram (+) bacteria	7	1,500,000	9%
				Methylobacterium spp.	3	640,000	4%
				Micrococcus luteus	1	210,000	1%
				Micrococcus lylae	1	210,000	1%
				Staphylococcus spp.	18	3,800,000	22%
						Total 17,000,000	

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

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

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

Report review: Theresa Lehman

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 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. MEA = 2% malt extract agar. TSA = tryptic soy agar. ND = not detected. NA = not applicable.
5. All culture samples are incubated at 25±0.5°C unless otherwise indicated.
6. The detection limit of this analysis is one fungal/bacterial colony. The quantitation limits vary from analysis to analysis and by air volume. Contact us to determine your quantitation limits.

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

Prestige Proj.#: 120928-01
1 of 12

Chain-of-Custody and Analysis Request Form

Client name: Yrone Corp Tel: _____ Client proj.#: SEED East Middle School

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: 9/26/12

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
~~Blank~~ #1	Outside #1	Spore Trap	75L			PCO1	
2	Rm 126						
3	Rm 124						
4	Office Area						
5	Cafeteria						
6	Outside #2						
7	Weight Rm						
8	Wrestle Room						
9	Boys Changing Rm						
10	Boys Locker Rm						
11	Library Office						

Contact name: Walt Saunders Submitted by: (sign & print) Walt Saunders Date submitted: 9/27/12

Received by: (sign & print) K Billick, K. Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex (UPS) USPO, in person

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

Prestige EnviroMicrobiology, Inc. Tel: 856-767-8300 Fax: 856-767-8305 Prestige Proj.#: 120928-01

242 Terrace Boulevard., Suite B-1, Voorhees, New Jersey 08043

2 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L) / Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
12	Girls Locker Rm	Spore Trap	75		Pool		
13	Girls Team Rm						
14	LIBRARY						
15	Outside #3						
16	Rm 135						
17	Rm 137						
18	Outside #4						
19	Rm 224						
20	Rm 222						
21	Gym 1						
22	Gym 2						
23	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

30 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
Out #24	Outside #1	TSA	113.2		PQ22		
25	Rm 126						
26	Rm 124						
27	Office Area						
28	Cafeteria						
29	Outside #2						
30	Weight Rm						
31	Wrestle Room						
32	Boys Training Rm						
33	Boys Locker Rm						
34	Liberary Office						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

4 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch^2)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
35	Girls Locker Rm	TSA	113		PC22		
36	Girls Team Rm						
37	Library						
38	Outside #3						
39	Rm 135						
40	Rm 137						
41	Outside #4						
42	Rm 224						
43	Rm 222						
44	Gym 1						
45	Gym 2						
46	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Bullock, K Bullick Date & time received: 9-28-12 9:30am Delivered by: Fedex, (UPS) USPO, in person

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

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

Prestige Proj.#: 120928-01

50 IC

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch^2)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
Out 47	Outside #1	~~Test~~ MEA	113.2		~~Fast~~ P006		
48	Rm 126					48 10-5-12	
49	Rm 124						
50	Office Area						
51	Cafeteria						
52	Outside #2						
53	Weight Rm						
54	Wrestle Room						
55	Boys Training Rm						
56	Boys Locker Rm						
57	Library Office						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12 9:30AM Delivered by: Fedex, (UPS), USPO, in person

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

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

Prestige Proj.#: 120928-01

6 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L) / Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
58							
~~#47~~	Girls Locker Rm	MEA	113.2		~~Fast~~ P006	48 hours	
~~#~~	Girls Team Rm						
~~#~~	Library						
61	Outside #3						
~~#~~	Rm 135						
~~#~~	Rm 137						
~~#~~	Outside #4						
~~#~~	Rm 224						
~~#~~	Rm 222						
~~#~~	Gym 1						
"	Gym 2						
69	Outside #5						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted. _____

Received by: (sign & print) K Billick, K Billick Date & time received: 9.28.12, 9:30am Delivered by: Fedex, (UPS) USPO, in person

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

Prestige EnviroMicrobiology, Inc. Tel: 856-767-8300 Fax: 856-767-8305 Prestige Proj.#: 120928-01
242 Terrace Boulevard., Suite B-1, Voorhees, New Jersey 08043

1 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water, potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
70	Rm 126	SWABS	2"x2"		PC2J		
71	Rm 126						
72	Cafeteria						
73	Weight Rm						
74	Wrestle Rm						
75	Boys Team Rm						
76	Boys Locker Rm						
77	Library Office						
78	Girls Locker Rm						
79	Girls Team Rm						
80	Library						

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12 9:30AM Delivered by: Fedex (UPS) USPO, in person

(For lab use only) Processed by: K. Billick Sample type: SWABS Date: 9-28-12

MEA LOT # 01373 exp - 3/14/13 TSA LOT # 01371 exp - 3/12/13
MEA LOT # 01374 exp - 3/24/13 TSA LOT # 01375 exp - 3/26/13

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

Prestige Proj.#: 120928-01

8 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
81	Rm 135	SWABS	2" Sq		Pool		
82	Rm 137						
83	Rm 222						
84	Rm 224						
85	Gym 1						
86	Gym 2						
87	Rm 216		2" Sq				Blower Fan
88	Weight Rm Unit		1" Sq				Blower Fan
89	Library Office		1" Sq				Blower Fan
90	Library Storage		1" Sq				"
91	Girls Locker Rm		1" Sq				"

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K. Billick, K. Billick Date & time received: 9-28-12, 9:30AM Delivered by: Fedex (UPS) USPO, in person

(For lab use only) Processed by: K. Billick Sample type: SWABS Date: 9-28-12

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

Prestige Proj.#: 120928-01
9 of 10

Chain-of-Custody and Analysis Request Form

Client name: _____ Tel: _____ Client proj.#: _____

Address: _____ Fax: _____ P.O.#: _____

_____ E-mail: _____ Date sampled: _____

Sample ID	Location or source	Sample type	Air vol (L) / Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
92	Rm 222 Storage	SWABS	1" Sq		PC27		Blower Fin
93	Rm 224		1" Sq				"
94	Rm 216 LV		1" Sq				
95	Athl #3 - office		1" Sq				Blower Shroud
96	Cafe Unit		2" Sq				Blower Fin
97	Girls Terminal Rm Unit		1" Sq				Blower Fin
98	Rm 124 LV		2" Sq				Blower Shroud
99	Boys Locker Rm		2" Sq				Blower Fin
100	Boys Team Room		1" Sq				Blower Fin
101	Gym Rm #2		2" Sq				Blower Fin
102	Rm 126 LV		1" Sq				Blower Fins
103	Rm 135		1" Sq				Blower Fins

Contact name: _____ Submitted by: (sign & print) _____ Date submitted: _____

Received by: (sign & print) K Bllick, K Billick Date & time received: 9-28-12, 9:30 AM Delivered by: Fedex (UPS) USPO, in person

(For lab use only) Processed by: K Bllick Sample type: SWABS Date: 9-28-12

Pg 10 of 10

Prestige EnviroMicrobiology, Inc. Tel: 856-767-8300 Fax: 856-767-8305
242 Terrace Boulevard., Suite B-1, Voorhees, New Jersey 08043 (C) 717-821-0484

Prestige Proj.#: 120928-01

Chain-of-Custody and Analysis Request Form

Client name: ____ Tel: ____ Client proj.#: ____
Address: ____ Fax: ____ P.O.#: ____
E-mail: ____ Date sampled: ____

Sample ID	Location or source	Sample type	Air vol (L)/ Area (inch²)	Water: potable or non-potable	Analysis requests code or description	Turnaround time	Notes or special instructions
104	Office	Dust	NA		~~P024~~ P027		
→	didn't received	9/13/12				per Walt	9/8/12 - f.y
	called Walt, he will send	the sample					
	to prestige						
	Sample received	10/1/12	f.y				

Contact name: ____ Submitted by: (sign & print) ____ Date submitted: ____

Received by: (sign & print) K. Billick, K Billick Date & time received: 9-28-12 9:30 AM Delivered by: Fedex, (UPS) USPO, in person

(For lab use only) Processed by: K. Billick Sample type: SWABS Date: 9-28-12

#104 processed 10-3-12, KB

PROAC
CORPORATION
PROACTIVE BUILDING MAINTENANCE

QUALITY ASSURANCE PLUS

Purpose: AHU INSPECTION LOCATION: EAST MIDDLE SCHOOL

DATE: 09/26/12 PAGE 1

DATE	UNIT	LOCATION	COMMENTS
	CAFETERIA	OPEN CEILING	AREA SERVED-CAFETERIA,MFG-CARRIER,TYPE-VAV;OAI-DUCTED,CONTAMINATION-YES; COILS-DX REFRIGERANT & HOT WATER,COND-SLIGHTLY DAMAGED;PAN-GOOD,TI-YES,TF-YES;AHH-GOOD;PLENUM-GOOD;
	WEIGHT ROOM	OPEN CEILING	AREA SERVED-WRESTLING ROOM, MFG-MAGIC AIRE,TYPE-CONSTANT;OAI-DUCTED;COILS-CHILLED WATER,COND-GOOD; PAN-STAINLESS,COND-GOOD,TI-YES,TF-YES; AHH-GOOD,INSULATION-GOOD;PLENUM-GOOD;
	OFFICE # 3	CEILING	AREA SERVED-OFFICE,MFG-CARRIER,TYPE-VAV;COILS-DX REFRIGERANT, COND-SLIGHTLY DAMAGED; PAN-STAINLESS,COND-RUSTING,TI-YES,TF-YES; AHH-GOOD; PLENUM-GOOD,COND-SUSPECT MICROBIAL GROWTH;

PO Box 326
MT AETNA PA 19544

PROAC CORPORATION
Proactive Building Maintenance

VOICE 717-933-9475
FAX 717-933-9475

INDOOR AIR QUALITY SURVEY

Purpose: FINAL QUALITY ASSURANCE SURVEY

Location: EAST MIDDLE SCHOOL

Date: 09/26/12

NO.	TIME	TEMP °F	RELATIVE HUMIDITY	CARBON DIOXIDE	CO	TVOC	OCCUPANCY #PERSONS	COMMENTS
1	8:15	66	73	140	0	0	0-1	OUTSIDE # 1 (126)
2	8:40	68	69	1780	0	0	21-22	126
3	9:00	74	48	1320	0	0	24-25	124 ART
4	9:15	73	50	530	0	0	7-8	OFFICE AREA
5	9:44	73	59	310	0	0	0-1	CAFÉ
6	10:01	73	60	260	0	0	0-1	OUTSIDE # 2 FRONT
7	10:25	76	53	460	0	0	3-4	WEIGHT ROOM
8	10:42	76	52	430	0	0	0-1	WRESTLE ROOM
9	10:57	77	55	540	0	0	4-5	BOYS TEAM RM
10	11:07	77	54	530	0	0	5-6	BOYS LOCKER
11	11:24	77	44	590	0	0	3-4	LIBRARY OFFICE
12	11:34	77	54	530	0	0	5-6	GIRLS LOCKER
13	11:39	77	54	420	0	0	5-6	GIRLS TEAM RM
14	12:55	72	53	350	0	0	5-6	LIBRARY
15	1:06	75	57	320	0	0	0-1	OUTSIDE # 3
16	1:26	75	49	640	0	0	3-4	135
17	1:46	75	35	790	0	0	2-3	137
18	2:01	76	55	280	0	0	0-1	OUTSIDE # 4
19	2:20	78	45	1170	0	0	20-21	224

* Denotes areas that reached or exceeded the ASHRAE comfort standards for CO^2

PO Box 326
MT AETNA PA 19544

PROAC
CORPORATION
Proactive Building Maintenance

VOICE 717-933-9475
FAX 717-933-9475

INDOOR AIR QUALITY SURVEY

Purpose: FINAL QUALITY ASSURANCE SURVEY

Location: EAST MIDDLE SCHOOL

Date: 09/26/12

NO.	TIME	TEMP °F	RELATIVE HUMIDITY	CARBON DIOXIDE	CO	TVOC	OCCUPANCY #PERSONS	COMMENTS
20	2:40	75	47	980	0	0	2-3	ROOM 222
21	2:55	74	58	630	0	0	0-1	GYM 1
22	3:10	74	57	580	0	0	0-1	GYM2
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								

* Denotes areas that reached or exceeded the ASHRAE comfort standards for CO^2

PO Box 326
MT AETNA PA 19544

PROAC
CORPORATION
Proactive Building Maintenance

VOICE 717-933-9475
FAX 717-933-9475

PARTICLE COUNTS

Purpose: **FINAL QUALITY ASSURANCE SURVEY** Location: **EAST MIDDLE SCHOOL**

Date: 09/26/12

NO.	.3	.5	1.0	2.0	5.0	COMMENTS
1	107558	3913	609	260	23	OUTSIDE # 1 (126)
2	42764	3781	1756	1042	283	126
3	37990	3233	1610	962	242	124 ART
4	28082	1775	803	1008	206	OFFICE AREA
5	52978	2287	512	165	5	CAFÉ
6	84844	3518	620	263	41	OUTSIDE # 2 FRONT
7	45571	1927	445	223	55	WEIGHT ROOM
8	46147	1649	289	103	11	WRESTLE ROOM
9	59520	2557	411	149	13	BOYS TEAM RM
10	54712	2933	715	337	72	BOYS LOCKER
11	30594	1548	431	241	51	LIBRARY OFFICE
12	54231	2490	589	331	78	GIRLS LOCKER
13	71768	3384	397	152	16	GIRLS TEAM RM
14	34666	1479	227	120	46	LIBRARY
15	76256	3989	446	176	25	OUTSIDE # 3
16	27586	1310	291	169	37	135
17	61623	3086	349	132	9	137
18	77123	3716	314	126	13	OUTSIDE # 4
19	50529	4129	1603	1771	736	224

* Denotes areas that reached or exceeded the ASHRAE comfort standards for CO^2

PO Box 326
MT AETNA PA 19544

PROAC
CORPORATION
Proactive Building Maintenance

VOICE 717-933-9475
FAX 717-933-9475

PARTICLE COUNTS

Purpose: **FINAL QUALITY ASSURANCE SURVEY** Location: **EAST MIDDLE SCHOOL**

Date: 09/26/12

NO.	.3	.5	1.0	2.0	5.0	COMMENTS
20	26158	1667	458	243	36	ROOM 222
21	64917	2660	172	28	1	GYM 1
22						GYM2
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						

* Denotes areas that reached or exceeded the ASHRAE comfort standards for CO^2

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 an Limited Microbial and IAQ Survey 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.