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October 12, 2005

Signature on File

TO: Ms. Marina Rashid, Principal
Eagle Ridge Elementary School

FROM: Kenneth I. Partee, Project Manager, Occupational Health and Environmental Control
Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment
FISH 105, 106, 308 and 309

On September 21, 2005 the IAQ Assessment Team conducted an assessment of FISH 105, 106, 308 and 309 at **Eagle Ridge Elementary School**. The evaluation consisted of a walkthrough of the identified areas to assess the current condition of the location with regard to indoor air quality. This assessment included observations of the carpet, floor tile, ceiling tile, interior walls, false ceiling plenum, and accessible ventilation equipment.

Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if needed.

Generally, the IAQ Assessment did not identify any existing conditions significantly impacting IAQ and thereby presenting immediate health and safety concerns to building occupants. However, due to individual sensitivities and predisposing health factors, it is possible that some building occupants may elicit a health response to agents and / or conditions identified during the evaluation. Therefore, to further improve IAQ, prevent development of future IAQ-related problems, and to reduce the potential for IAQ-related complaints by building occupants, the IAQ Assessment Team recommends appropriate follow up of each item identified and listed in the attached evaluation.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact me at 754-321-3200.

cc: Dr. Joanne Harrison, Area Superintendent
Craig Anderson, Area Director
Jeffrey S. Moquin, Director, Risk Management
Paul H. Bach, Project Manager II, Facilities and Construction Management
Ruby Fitzgerald, Broward Teachers Union
Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division
Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

KP/tc
Enc.

IAQ Assessment

Location Number 3441

Eagle Ridge Elementary School

Evaluation Requested September 19, 2005

Time of Day 12:20 pm

Evaluation Date September 21, 2005

Outdoor Conditions Temperature 89.5 Relative Humidity 69.4 Ambient CO2 537

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
105 & 106		72 - 78		30% - 60%		Max 700 > Ambient	
Noticeable Odor	Yes		Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling Type							
Wall Type							
Flooring							

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	Yes	No	No	
Walls	Yes	No	No	
Flooring	Yes	No	No	
HVAC Supply Grills	Yes	No	No	
HVAC Return Grills	Yes	No	No	
Ceiling at Supply Grills	Yes	No	No	
Surfaces in Room	Yes	No	No	

Observations

Findings: RESTROOMS

- Exhaust fans are not coming on in both 105 and 106

Recommendations:

Physical Plant Operations Division:

- Evaluate and repair or replace exhaust fans in restrooms 105 and 106

IAQ Assessment

Location Number 3441
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Eagle Ridge Elementary School

Time of Day 12:20 pm

Outdoor Conditions Temperature 89.5 Relative Humidity 69.4 Ambient CO2 537

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
308	74.4	72 - 78	57.8	30% - 60%	995	Max 700 > Ambient	18
Noticeable Odor	No		Visible water damage / staining?	Visible microbial growth?	Amount of material affected		
Ceiling Type	2 x 4 Lay In		No	No	None		
Wall Type	Tackable		No	No	None		
Flooring	Tile		No	No	None		

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	Yes	No	No	
Walls	No	Yes	Yes	Clean as appropriate
Flooring	Yes	No	No	
HVAC Supply Grills	Yes	No	No	
HVAC Return Grills	Yes	No	No	
Ceiling at Supply Grills	Yes	No	No	
Surfaces in Room	No	Yes	Yes	Clean as appropriate

Observations

Findings:

- Visible microbial growth on cabinets and range hood
- Exhaust fan in restroom (308A) is not working
- Dust buildup on walls and environmental surfaces throughout the room

Recommendations:

Site Based Maintenance:

- Clean cabinets and range hood with Wexcide disinfectant solution to remove microbial growth and monitor for future growth
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Physical Plant Operations Division:

- Evaluate and repair or replace exhaust fan in restroom 308A

IAQ Assessment

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Eagle Ridge Elementary School

Time of Day 12:20 pm

Outdoor Conditions Temperature 89.5 Relative Humidity 69.4 Ambient CO2 537

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
309	75.7	72 - 78	54.4	30% - 60%	577	Max 700 > Ambient	21
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
No		No		No		None	
Ceiling Type	2 x 4 Lay In		No	No	None		
Wall Type	Tackable		No	No	None		
Flooring	Tile		No	No	None		

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	Yes	No	No	
Walls	No	Yes	Yes	Clean as appropriate
Flooring	Yes	No	No	
HVAC Supply Grills	Yes	No	No	
HVAC Return Grills	Yes	No	No	
Ceiling at Supply Grills	Yes	No	No	
Surfaces in Room	No	Yes	Yes	Clean as appropriate

Observations

Findings:

- Visible microbial growth on cubbies and doors
- Advised that occupant opens windows
- Visible microbial growth on storage room door (309A)
- Dust buildup on walls and environmental surfaces throughout the room

Recommendations:

Site Based Maintenance:

- Clean cubbies and doors with Wexcide disinfectant solution to remove microbial growth and monitor for future growth
- Site based administration to encourage staff to keep doors and windows closed. Open doors and windows allow humid untreated air into occupied environment.
- Clean door to storage (309A) with Wexcide disinfectant solution to remove microbial growth and monitor for future growth.
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate