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October 12, 2005

Signature on File

TO: Ms. Bettye Brown, Principal
Margate Middle School

FROM: Robert J. Krickovich, Coordinator, LEA
Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment
FISH 120D, 264 and Portable 767C

On September 21, 2005 the IAQ Assessment Team conducted an assessment of FISH 120D, 264 and Portable 767C at **Margate Middle 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 754-321-1638.

cc: Dr. Joanne Harrison, Area Superintendent
Sharon Airaghi, Area Director
Jeffrey S. Moquin, Director, Risk Management
Philip Kaufold, 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

RK/tc
Enc.

IAQ Assessment

Location Number 0581

Margate Middle School

Evaluation Requested September 19, 2005

Time of Day 1:25 pm

Evaluation Date September 21, 2005

Outdoor Conditions Temperature 89.3 Relative Humidity 67.3 Ambient CO2 413

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
120D	67.2	72 - 78	59.2	30% - 60%	864	Max 700 > Ambient	1
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	Drywall		No	No	None		
Flooring	Carpet		No	No	None		

	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:

- Temperature was below range, however, the room is an office that was not occupied and the door was closed and locked
- Live plant in room

Recommendations:

Site Based Maintenance:

- Monitor temperature in room when occupied and if too cold contact Physical Plant Operations to adjust HVAC
- Remove live plant from room
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

IAQ Assessment

Location Number 0581
 Evaluation Requested September 19, 2005
 Evaluation Date September 21, 2005

Margate Middle School

Time of Day 1:25 pm

Outdoor Conditions Temperature 89.3 Relative Humidity 67.3 Ambient CO2 413

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
264	72.5	72 - 78	46.6	30% - 60%	713	Max 700 > Ambient	14
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Ceiling Type		No		No		None	
Wall Type		Yes		No		Under center window	
Flooring		No		No		None	

	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	No	Yes	Yes	Clean as appropriate

Observations

Findings:

- Dust build up on environmental surfaces throughout the room
- Drywall is severely water damaged at center window. 60% moisture content 12" on each side of window from the sill up 6" and down to the floor

Recommendations:

Site Based Maintenance:

- Thoroughly clean surfaces throughout the room
- 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 cause of water intrusion on exterior and repair/replace wall as appropriate
- Evaluate and repair/replace severely water damaged interior drywall at center window

IAQ Assessment

Location Number 0581
 Evaluation Requested September 19, 2005
 Evaluation Date September 21, 2005

Margate Middle School

Time of Day 1:25 pm

Outdoor Conditions Temperature 89.3 Relative Humidity 67.3 Ambient CO2 413

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
767C	75.8	72 - 78	58.5	30% - 60%	2101	Max 700 > Ambient	24
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
No							
Ceiling Type	2 x 4 Lay In	Yes	No	4 Ceiling tiles			
Wall Type	Drywall	No	No	None			
Flooring	12 x 12 Vinyl	No	No	None			

	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	No	Yes	Yes	Clean as appropriate

Observations

Findings:

- Dust build up on environmental surfaces throughout the room
- Non-approved SBBC chemicals (Glade plug in air freshener)
- 4 stained ceiling tiles
- Both A/C units are set for NO fresh air intake
- Moisture detected in East wall (entire wall)
- Exterior East wall has fixture mounted to the old wall material and may be cause of water intrusion
- Exterior fascia is water damaged

Recommendations:

Site Based Maintenance:

- Thoroughly clean surfaces throughout the room
- Remove non-approved chemicals (Glade plug in) from room
- Ensure that both portable A/C units are set for fresh air intake
- 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 cause of stained ceiling tiles and replace ceiling tiles as appropriate
- Evaluate and repair cause of water intrusion to East wall (entire wall) and repair/replace wall as appropriate
- Evaluate and repair exterior East wall for source of water intrusion - old fixture mounted on old wall material may be source.
- Evaluate and repair/replace water damaged fascia