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August 12, 2005

Signature on File

TO:	Mr. Kelvin Lee, Principal
	McNicol Middle School

- FROM: Robert J. Krickovich, Coordinator, LEA Facilities and Construction Management, Environmental Division
- SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 117A and 119A

On August 8, 2005 the IAQ Assessment Team conducted an assessment of FISH 117A and 119A at **McNicol 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.

Sam Gregg, Area Superintendent
Steven Friedman, Area Director
Jeffrey S. Moquin, Director, Risk Management
Jerry Linkous, Project Manager II, Facilities and Construction Management
Diane Watts, 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										
McNicol Middle School					Evaluation Requested					
Time of Day 12	2:30 pm				E	Evaluation Date	August	8, 2005		
Outdoor Conditions	Temper	ature 90	.5	Relative Hum	nidity 64.8	Ambie	nt CO2	434		
Fish Tempo	erature Ran	ge Relati	ve Humidity	Range	CO2	Ran	ge #	Occupants		
117A 7	71.3 <b>72 -</b> 7	78	73.2	30% - 60%	543	Max 700	> Ambient	2		
Noticeable Odor	No		sible water ge / staining?		microbial owth?	Amount of mat affected	erial			
Ceiling Type	2 x 4 Lay In		Νο	1	No		None			
Wall Type	Drywall		No	1	No		None			
Flooring	12 x 12 Vinyl		No		No		None			
		inor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	quired			
Ceiling	Yes	Νο	No							
Walls	Yes	Νο	Νο							
Flooring	Νο	Yes	Yes		Thoroughly	/ clean and sar	nitize floor			
HVAC Supply Grills						NONE				
HVAC Return Grills	Νο	Yes	Yes		Clean wit	h Wexcide disi	nfectant			
Ceiling at Supply Grills					No	supply in roo	m			
Surfaces in Room	No	Yes	Yes		Clea	an as appropria	ate			

## Observations

- Findings: (storage room)
- Dust and debris on floor
- Dust and debris on HVAC return grill. Return grill for the classroom is in this storage room.
- There is no HVAC supply grill in the room
- Heavy dust and debris and condensation on shelving in room
- Dust and debris on environmental surfaces
- Humidity level elevated

## Recommendations:

## Site Based Maintenance:

- Thoroughly clean and sanitize floor
- Clean HVAC return grill in storage room with Wexcide disinfectant solution
- Clean shelving as appropriate
- Clean environmental surfaces

- 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 HVAC system. May need to move return grill into classroom
- Install supply grill in FISH 117A
- Evaluate and repair HVAC system to lower humidity level

IAQ Assessment										
	М	cNicol Middle	School		Evaluat	ion Requested	August	4, 2005		
Time of Day 12	2:30 pm				I	Evaluation Date	August	8, 2005		
Outdoor Conditions	Tempe	erature 90	).5	Relative Hum	nidity 64.8	Ambie	nt CO2	434		
Fish Tempe	erature Rai	nge Relati	ive Humidity	Range	CO2	Ran	ge #	Occupants		
119A 7	71.3 <b>72 -</b>	78	68.3	30% - 60%	548	Max 700	> Ambient	1		
Noticeable Odor	No		sible water age / staining		microbial owth?	Amount of mat affected	terial			
Ceiling Type	2 x 4 Lay In		No	1	No		None			
Wall Type	Drywall		No	1	No		None			
Flooring	12 x 12 Vinyl		No	1	No		None			
	Clean M	/linor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	quired			
Ceiling	Yes	No	No							
Walls	Yes	Νο	No							
Flooring	Yes	Νο	No							
HVAC Supply Grills	Yes	Νο	No							
HVAC Return Grills						Through door				
Ceiling at Supply Grills	Yes	Νο	Νο							
Surfaces in Room	No	Yes	Yes		Clea	an as appropria	ate			

# Observations

## Findings:

Dust and debris on environmental surfaces

- Humidity level elevated

#### Recommendations:

#### Site Based Maintenance:

#### Clean environmental surfaces

- 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 HVAC system to lower humidity level