

Jeffrey S. Moquin, Director Risk Management Department managing risk with responsibility

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Signature on File

April 3, 2006

TO:	Ms. Shelly Isenberg, Principal Riverglades Elementary Schoo			
FROM:	Aston A. Henry, Jr., Supervisor Risk Management Department			

SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 221, 223 and 227

On January 26, 2006 I conducted an assessment of FISH 221, 223 and 227 at **Riverglades Elementary School**. This evaluation included observations of the flooring system, ceiling tiles, false ceiling plenum, environmental surfaces, interior and exterior walls, and the accessible ventilation equipment. Additionally, environmental parameter measurements were taken to include temperature, relative humidity, and carbon dioxide. The detailed findings, along with the recommended corrective action can be found on the attached IAQ Assessment Worksheets.

The IAQ assessment did identify one or more existing conditions impacting IAQ and has generated appropriate work orders to correct deficiencies in systems and maintenance that could contribute to decreased indoor air quality. At the time of the assessment, these concerns were not an immediate health or safety concern 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 Bach, Project Manager, 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

AAH/tc Enc.

			IAQ As	sessment	Locatio	on Number	2891	
	Riverglades	Elementary	School		Evaluat	ion Requested	January	/ 9, 2006
Time of Day	4:00 pm				E	Evaluation Date	January	26, 2006
Outdoor Condition	is Temper	ature 70).3	Relative Humid	ity 47.9	Ambie	nt CO2	388
Fish Tem	perature Ran	ge Relati	ve Humidity	Range	CO2	Ran	ge #	Occupants
221	72.9 72 - 7	78	44.7	30% - 60%	976	Max 700	> Ambient	2
Noticeable Odor	Yes		sible water ige / staining	Visible mi g? growt		Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay In		No	No			None	
Wall Type	Drywall		No	No			None	
Flooring	Tile/Carpet		Yes	No		A	II Carpet	
		inor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	No	Yes	Yes	R	emove sta	ined carpet and	d install til	e
HVAC Supply Gril	Is Yes	No	No					
HVAC Return Gril	ls No	Yes	Yes		Clean wit	h Wexcide disi	infectant	
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	Yes	Νο	No					

Observations

Findings:

- No signs of moisture intrusion or microbial growth
- Ceiling tiles are clean and dry and false ceiling plenum appeared clean and dry at accessed location
- Odor in the room appears to be coming from the carpet. Carpet is heavily stained and soiled
- Minor dust and debris on HVAC return grills
- CO2 level was slightly elevated for only 2 occupants in the room

Recommendations:

Site Based Maintenance:

- Clean HVAC return grills with Wexcide disinfectant solution

- 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:

- Remove carpet and replace with tile
- Evaluate and repair HVAC system (fresh air damper) to lower CO2 level

			IAQ As	sessment	Locati	on Number	2891	
	River	glades Eleme	ntary School		Evalua	tion Requested	January	/ 9, 2006
Time of Day	4:30 pm					Evaluation Date	January	26, 2006
Outdoor Conc	litions Te	emperature	70.3	Relative Humid	lity 47.9	Ambie	nt CO2	388
Fish	Temperature	Range	Relative Humidity	Range	CO2	Ran	nge #	Occupants
223		72 - 78		30% - 60%		Max 700	> Ambient	
Noticeable O	dor		Visible water damage / staining	Visible m growt		Amount of ma affected	terial	
Ceiling Type								
Wall Type								
Flooring								
	Clean	Minor Du / Debris			Corre	ctive Action Re	equired	
Ceiling								
Walls								
Flooring								
HVAC Supply	/ Grills							
HVAC Return	Grills							
Ceiling at Su Grills	pply							
Surfaces in R	oom							

Observations

Findings: Mechanical Room

- Water and slime build up in drain pan

Recommendations:

Site Based Maintenance: - 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:

Evaluate cause of water and slime build up in drain pan and repair/clean as appropriate

		IAQ As	sessment	Location Number	2891
	Riverglades Ele	ementary School		Evaluation Requested	January 9, 2006
Time of Day 4:	:30 pm			Evaluation Date	January 26, 2006
Outdoor Conditions	Temperatu	re 70.3	Relative Humidity	47.9 Ambie	ent CO2 388
Fish Tempo	erature Range	Relative Humidity	Range	CO2 Rar	nge # Occupants
227 7	'3.1 72 - 78	44.9	30% - 60%	998 Max 700	> Ambient 2
Noticeable Odor	No	Visible water damage / staining	Visible micro g? growth?	bial Amount of ma affected	terial
Ceiling Type	2 x 4 Lay In	No	No		None
Wall Type	Drywall	No	No		None
Flooring	Tile/Carpet	Yes	No	A	All Carpet
	Clean Minor / De	Dust Needs bris Cleaning	9	Corrective Action Re	equired
Ceiling	Yes	o No			
Walls	Yes	o No			
Flooring	No	Yes	Rem	ove stained carpet an	d install tile
HVAC Supply Grills	S Yes	o No			
HVAC Return Grills	No	Yes	C	lean with Wexcide dis	infectant
Ceiling at Supply Grills	Yes	o No			
Surfaces in Room	Yes	o No			

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