

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

FISH 106 and 106A

July 30, 2007	Signature on File	For Custodial Supervisor Use Only		
TO:	Mr. Ronald Forsman, Principal Rickards Middle School	Custodial Issues Addressed Custodial Issues Not Addressed		
FROM:	Edward See, Project Manager Risk Management Department			
SUBJECT:	Indoor Air Quality (IAQ) Assessment			

On June 25, 2007 I conducted an assessment of FISH 106 and 106A at **Rickards Middle 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.

Please ensure that your Head Facilities Serviceperson receives a copy of this correspondence so that the recommendations requiring their attention can be addressed. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all issues have been appropriately addressed.

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. Harry LaCava, Area Superintendent
Toni Weissberg, Area Director
Jeffrey S. Moquin, Director, Risk Management
Robert Goode, Project Manager, Facilities and Construction Management
Dane Ramson, Broward Teachers Union
Roy Jarrett, Federation of Public Employees
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

ES/tc Enc.

		Rickards Middle	School		Evaluati	on Requested		
Time of Day	9:30 am				E	valuation Date	June 2	25, 2007
Outdoor Condi	tions Tem	perature 8	37 F	Relative Humid	lity 66.5	Ambie	nt CO2	513
Fish	Temperature R	lange Relat	ive Humidity	Range	CO2	Ran	ge #	Occupants
106	75.9 7 2	2 - 78	62.8	30% - 60%	582	Max 700	> Ambient	1
Noticeable Od	lor Yes	-	isible water age / staining?	Visible mi grow		Amount of mat affected		
Ceiling Type	2 x 4 Lay I	n	Yes	No		1 Ceiling	Tile - East S	Side
Wall Type	Drywall		No	No			None	
Flooring	Carpet		No	No] [None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	tive Action Re	equired	
Ceiling	No	Yes	Yes		Remove a	and replace ce	iling tile	
Walls	Yes	No	No					
Flooring	No	Yes	Yes		Cle	ean and sanitiz	ze	
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	ply No	Yes	Yes		Clea	ın as appropri	ate	
Surfaces in Ro	oom No	Yes	Yes		Clea	ın as appropri	ate	
hearvations								

IAQ Assessment

2121

Location Number

Observations

Findings:

- Odor in room from Wexcide disinfectant solution
- 1 stained ceiling tile East side of room
- Dust and debris on carpet
- Dust and debris on ceiling at HVAC supply grills
- Dust build up on environmental surfaces
- Humidity level was slightly elevated at the time of the assessment
- AHU drain pan has visible signs of microbial growth
- Non-approved chemicals in room (Spic 'n Span and Lysol)

-Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tile
- Clean carpet with extraction machine
- Clean ceiling at HVAC supply grills
- Thoroughly clean environmental surfaces throughout the room
- Remove non-approved chemicals from room (Spic 'n Span and Lysol)
- 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 HVAC for proper operation and repair as appropriate to lower humidity level
- Clean drain pan in AHU

	Rickards	Middle School		Evaluation Requested	
Time of Day	9:30 am			Evaluation Date	June 25, 2007
Outdoor Conditions	s Temperature	87	Relative Humidity	66.5 Ambier	at CO2 513
Fish Temp	perature Range	Relative Humidity	Range	CO2 Rang	ge # Occupants
106A	72.4 72 - 78	66.6	30% - 60%	552 Max 700 >	- Ambient 1
Noticeable Odor	Yes	Visible water damage / staining	Visible microl g? growth?	bial Amount of mate affected	erial
Ceiling Type	2 x 4 Lay In	Yes	No	1 Ceiling	Γile - East Side
Wall Type	Drywall	No	No	1	None
Flooring	Carpet	No	No		None
	Clean Minor / Deb		ı	Corrective Action Rec	quired
Ceiling	Yes	No			
Walls	Yes	No			
Flooring	Yes	No			
HVAC Supply Grill	s Yes No	No			
HVAC Return Grills	s Yes No	No			
Ceiling at Supply Grills	Yes	No			
Surfaces in Room	Yes	No			
Observations					
	slightly elevated at the visible signs of micro		sment		
-Recommendations	-	C			
Site Based Mainten	iance:				
		signs of microbial g	growth as well as dust	and debris accumulatio	n and clean as
Physical Plant Ope	rations:				
	proper operation and	d repair as appropria	ate to lower humidity	level	

IAQ Assessment

2121

Location Number