

managing risk with responsibility

Jeffrey S. Moquin, Director Risk Management Department

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TO: Ms. Paula Meadows, Principal

Westpine Middle School

FROM: Aston A. Henry, Jr., Supervisor

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 613A, 705 and 713

On September 6, 2006 I conducted an assessment of FISH 613A, 705 and 713 at **Westpine 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. 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. Harry LaCava, Area Superintendent

Willie Dudley, Area Director

Jeffrey S. Moquin, Director, Risk Management

Juana Romaniuk, Project Manager, Facilities and Construction Management

Gary Itzkowitz, 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.

Westpine	e Middle School	Evaluation Requested August 18, 2006
Time of Day 1:00 pm		Evaluation Date September 6, 2006
Outdoor Conditions Temperature	e 77.6 Relative Humidity	99.9 Ambient CO2 379
Fish Temperature Range 613A 72 - 78 Noticeable Odor No	Relative Humidity Range 30% - 60% Visible water Visible microdamage / staining? growth?	
Ceiling Type 2 x 4 Lay In	No No	None
Wall Type Drywall	Yes No	Northeast wall
Flooring Tile	No No	None
Clean Minor / Dek		Corrective Action Required
Ceiling Yes No	o No	
Walls Yes No	o No	
Flooring Yes No	o No	
HVAC Supply Grills Yes No	o No	
HVAC Return Grills Yes No	o No	
Ceiling at Supply Yes No	o No	
Surfaces in Room Yes No	No	
	3ookshelf on Northeast wall is damaged.	Possible water damage to Northeast wall.
Recommendations: Site Based Maintenance: - Continue to monitor this location for any appropriate	signs of microbial growth as well as dus	st and debris accumulation and clean as
Physical Plant Operations: - Evaluate Northeast wall for water damage - Remove damaged bookshelf and replace		

IAQ Assessment

2052

Location Number

		Westpine	Middle School		Evaluatio	n Requested	August 18, 2006	
Time of Day	1:00 pm				Ev	aluation Date	September 6, 2006	
Outdoor Cond	itions T	emperature	77.6	Relative Humidity	99.9	Ambie	nt CO2 379	
	Temperature	Range	Relative Humidit	Range	CO2	Ran		
705	69.1	72 - 78	85.6	30% - 60%	769	Max 700	> Ambient 3	
Noticeable O	dor No					Amount of mat affected	terial	
Ceiling Type	2 x 4 L	ay In	No		None			
Wall Type	Dryv	vall	No			Around exhaust vent		
Flooring	Tile)	No	No		None		
	Clean	Minor D	ris Cleanin		Correcti	ive Action Re	quired	
Ceiling	Yes	No	No					
Walls	No	Yes	Yes	С	lean with	Wexcide disi	nfectant	
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	pply Yes	No	No					
Surfaces in R	oom Yes	No	No					
bservations								
	was low and h			ent and on teacher's he time of the assess				

IAQ Assessment

2052

Location Number

- Site Based Maintenance:
 Thoroughly clean wall surrounding exhaust vent and teacher's desk with Wexcide disinfectant solution
- Adjust thermostat to 73 degrees to increase temperature and lower humidity level
- 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 increase temperature and lower humidity level

			Westpine	Middle Scho	ol		Evaluat	ion Requested	August 1	8, 2006
Time of Day	1:0	00 pm	7				E	Evaluation Date	Septembe	er 6, 2006
Outdoor Condi	itions	Te	 emperature	77.6	R	Relative Humidity	99.9	Ambie	nt CO2	379
	-	.4								
	Tempe		Range	Relative Humidity Range			CO2			
	713 72 72 - 78					30% - 60%	1039 Max 700 > Ambient 2			
Noticeable Oc	or	No]	Visible water Visible micr damage / staining? growth?			7			
Ceiling Type		2 x 4 La	y In	No		No			None	
Wall Type		Drywall		No		Yes		Minor c	on North Wal	I
Flooring		Tile		No]	No				
Clean Minor Dust Needs Corrective Action Required										
Ceiling		Yes	No] [No					
Walls		No	Yes	.] <u>Y</u>	′es	Clean with Wexcide disinfectant				
Flooring		Yes	No		No					
HVAC Supply	Grills	Yes	No] [No					
HVAC Return Grills Yes No] [No						
Ceiling at Sup Grills	Ils No No									
Surfaces in Ro	oom	Yes	No] [No					
N- servetione										
Observations Findings:										
- Minor visible microbial growth on North wall - Humidity level and CO2 were elevated at the time of the assessment										
Recommendations:										
Site Based Maintenance: - Thoroughly clean North wall 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: - Evaluate HVAC for proper operation and repair as appropriate to lower humidity level. Evaluate and adjust fresh air damper to lower CO2 level.										

IAQ Assessment

2052

Location Number