

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

May 18, 2006 Signature on File

TO: Ms. Mary Lou Ridge, Principal

Bethune Elementary School

FROM: Robert J. Krickovich, Coordinator, LEA

Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 925

On February 10, 2006 I conducted an assessment of FISH 925 at **Bethune 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 754-321-1638.

cc: Sam Gregg, Area Superintendent
Margaret Underhill, Area Director
Jeffrey S. Moquin, Director, Risk Management
Bob Sharps, Project Manager, Facilities and Construction Management
Jerrod Neal, 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.

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Time of Day	9:15 am				E	Evaluation Date Febr	ruary 10, 2006
Outdoor Condi	tions Tem	perature 6	4.8	Relative Hum	idity 43.1	Ambient CO2	2 448
Fish	Temperature _F	Range Relat	tive Humidity	Range	CO2	Range	# Occupants
925	71 7	2 - 78	45.1	30% - 60%	1023	Max 700 > Amb	pient 20
Noticeable Odor No			Visible water Visible microbial damage / staining? growth?			Amount of material affected	
Ceiling Type Wood			No No		0	None	
Wall Type	Tackable/dry	/wall	Yes		0	At windows	
Flooring	Tile		No		0	None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Required	I
Ceiling	Yes	No	No				
Walls	Yes	No	No				
Flooring	Yes	No	No				
HVAC Supply	Grills No	Yes	Yes		Clean wit	h Wexcide disinfecta	nt
HVAC Return	Grills No	Yes	Yes		Clean wit	h Wexcide disinfecta	nt
Ceiling at Sup Grills	ply No	Yes	Yes		Clea	an as appropriate	
Surfaces in Ro	oom Yes	No	No				

IAQ Assessment

Bethune Flementary School

0341

February 9, 2006

Location Number

Evaluation Requested

Observations

Findings:

- Dust and debris on HVAC supply and return grills and on ceiling at supply grills
- Cobwebs in corners of windows
- Walls at windows are water damaged and tackboard is stained on both sides of windows. Plaster at bottom of windows is flaking.
- Occupant advised that when the termpature in the room is satisfied the air flow into the room stops
- Caulking around sink backsplash is deteriorated
- Caulking around exterior of windows is deteriorated

Recommendations:

Site Based Maintenance:

- · Clean HVAC supply and return grills with Wexcide disinfectant solution and clean ceiling at HVAC supply grills as appropriate
- · Clean cobwebs from corners of windows
- · 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 damaged walls, stained tackboard and flaking plaster around and under windows and repair as appropriate. Repair/replace effected wall material as necessary. Remove bookcase from window wall and replace damaged wall as necessary.
- Evaluate HVAC for proper operation (air flow to room stops when temperature is satisfied)
- Caulk sink backsplash as appropriate
- Caulk/seal exterior windows to prevent water intrusion