

# managing risk with responsibility

Jeffrey S. Moquin, Director Risk Management Department

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TO: Ms. Millicent Thorpe, Principal

**Riverland Elementary School** 

FROM: Robert J. Krickovich, Coordinator, LEA

Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 102 and 115

On October 4, 2006 I conducted an assessment of FISH 102 and 115 at **Riverland Elementary**. 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: Dr. Verda Farrow, Area Superintendent
 Joel Herbst, Area Director
 Jeffrey S. Moquin, Director, Risk Management
 Wayne Thrasher, Project Manager II, 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.

Time of Day	12:15 am				E	Evaluation Date Octo	ober 4, 2006
Outdoor Conditions Temperature 91.1 Relative Humidity 49.7 Ambient CO2 485							
Fish	Temperature R	ange Rela	tive Humidity	Range	CO2	Range	# Occupants
115   73.9 <b>72 - 78</b>		2 - 78	51.5	30% - 60%	683	Max 700 > Ambi	ent 2
Noticeable Odor No			Visible water Visible microbial damage / staining? growth?			Amount of material affected	
Ceiling Type	2 x 4 Lay I	n	No	No		None	
Wall Type	Plaster		No	No	] [	None	
Flooring	Carpet		No No			None	
	Clean	Minor Dust / Debris	Needs Cleaning	ı	Correc	ctive Action Required	
Ceiling	Yes	No	No				
Walls	Yes	No	No				
Flooring	Yes	No	No				
HVAC Supply	Grills Yes	No	No				
HVAC Return (	Grills Yes	No	No				
Ceiling at Sup Grills	ply No	Yes	Yes		Clea	an as appropriate	
Surfaces in Ro	oom No	Yes	Yes		Clea	an as appropriate	

IAQ Assessment

Riverland Elementary School

0151

October 4, 2006

Location Number

Evaluation Requested

# **Observations**

### Findings:

- Complaint of odor first thing in the morning when door is opened after being closed for prolonged period of time. Bionaire machine in room, time mist auto air freshener mounted over the door to the room and potpourri vase on cabinet in room.
- Air Handler Room FISH 120 was clean, coils pere clean, pans were clean and the filters were recently changed.
- Minor staining on carpet in FISH 115
- Minor dust build up on elevated surfaces
- Ceiling grid around HVAC supply grills is rusted and the ceiling tiles are dirty/stained, possibly from duct or supply box sweating.
- Carpet in FISH 102 (main office room) is heavily stained, soiled, rippled, etc.

#### Recommendations:

#### Site Based Maintenance:

- Remove air freshener and potpourri from room
- Clean carpet in FISH 115
- Clean elevated 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:

- Remove carpet in FISH 102 (main office room) and replace.
- Check insulation on duct and duct around HVAC supply grills and repair as appropriate. Remove and replace ceiling tiles around HVAC supply grills as appropriate.