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June 17, 2005

TO: Ms. Theresa Bucolo, Principal  
**Harbordale Elementary School**

FROM: Kenneth I. Partee, Project Manager, Occupational Health and Environmental Control  
Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment  
FISH 601

On June 16, 2005 the IAQ Assessment Team conducted an assessment FISH 601 at **Harbordale Elementary School**. The evaluation consisted of a walkthrough of the identified areas to assess the current condition of the location with regard to indoor air quality. This assessment included observations of the carpet, floor tile, ceiling tile, interior walls, false ceiling plenum, and accessible ventilation equipment.

Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if needed.

Generally, the IAQ Assessment did not identify any existing conditions significantly impacting IAQ and thereby presenting immediate health and safety concerns 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. Verda Farrow, Area Superintendent  
Roberta Insel, Area Director  
Jeffrey S. Moquin, Director, Risk Management  
Dave A. Archer, 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  
Robert Krickovich, Project Manager II, Facilities and Construction Management

KP/tc  
Enc.

# IAQ Assessment

Harbordale Elementary School

Evaluation Requested June 15, 2005

Time of Day 11:40 am

Evaluation Date June 16, 2005

Outdoor Conditions      Temperature 85.7      Relative Humidity 74.7      Ambient CO2 621

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
601	75.2	72 - 78	55.1	30% - 60%	501	Max 700 > Ambient	2
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Ceiling Type		Yes		No			
Wall Type		No		No		None	
Flooring		No		No		None	

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	No	Yes	Yes	Clean as appropriate
Walls	Yes	No	No	
Flooring	Yes	No	No	
HVAC Supply Grills	Yes	No	No	
HVAC Return Grills	Yes	No	No	
Ceiling at Supply Grills	No	Yes	Yes	Clean as appropriate
Surfaces in Room	No	Yes	Yes	Clean with Wexcide disinfectant

**Observations**

**Findings:**

- Visible microbial growth identified on tables throughout the room (18 tables)
- Dust identified on ceiling tiles throughout the room

**Recommendations:**

**Site Based Maintenance:**

- Clean tables with Wexcide disinfectant (short term solution). Procure new tables through project for new cafeteria (long term solution)
- Clean ceiling tiles throughout the room
- 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 Division:**

- Evaluate HVAC system operation for possible cause of microbial growth