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October 31, 2006

Signature on File

TO: Ms. Donna Patton, Principal
Dania Elementary School

FROM: Robert J. Krickovich, Coordinator, LEA
Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment
FISH 109

On September 27, 2006 I conducted a follow up assessment of FISH 109 at **Dania Elementary School**. The assessment consisted of a reevaluation walkthrough of the previously identified areas to assess the current condition of the location with regard to indoor air quality. This assessment included reviewing previously generated work orders as well as observations of the areas of concern as stated in the IAQ Assessment performed on July 15, 2005 and September 7, 2006 by me. Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if needed.

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
Diane Watts, 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.

IAQ Assessment

Location Number
 Evaluation Requested
 Evaluation Date

Dania Elementary School

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|----------------------------------|--------------------------------------|--------------------------------------|----------------------------------|--|---|---|--------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="109"/> | <input type="text" value="75.8"/> | <input type="text" value="72 - 78"/> | <input type="text" value="42"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="967"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="2"/> |
| Noticeable Odor | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected | |
| <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> | |
| Ceiling Type | <input type="text" value="Drywall"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Wall Type | <input type="text" value="Plaster"/> | | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="around windows"/> | | |
| Flooring | <input type="text" value="Carpet"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|----------------------------------|----------------------------------|--|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="No"/> | <input type="text" value="Yes"/> | <input type="text" value="Yes"/> | <input type="text" value="Repair/replace as appropriate"/> |
| Flooring | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text" value="N/A"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:
 - Wall around windows shows signs of water damage and is wet as previously reported in July 2005 and early September 2006.

Recommendations:

Site Based Maintenance:
 - 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 all windows - FISH 109 - for replacement and remove and replace wall material as appropriate. Also evaluate all windows - FISH 106, 107 and 108 - as previously identified.

REFER TO WORK ORDER EQ00442