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July 28, 2005

TO: Ms. Rosemary Chambers, Principal  
**Hallandale High School**

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

SUBJECT: Indoor Air Quality (IAQ) Assessment  
FISH 920

On July 22, 2005 the IAQ Assessment Team conducted an assessment of FISH 920 at **Hallandale High 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 754-321-1638.

cc: Sam Gregg, Area Superintendent  
Steven Friedman, Area Director  
Jeffrey S. Moquin, Director, Risk Management  
Jerry Linkous, Project Manager II, 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

Hallandale High School

Evaluation Requested

Time of Day

Evaluation Date

Outdoor Conditions      Temperature       Relative Humidity       Ambient CO2

|                                  |  |                                      |                                   |  |                                  |   |                                   |
|----------------------------------|--|--------------------------------------|-----------------------------------|--|----------------------------------|---|-----------------------------------|
| Fish                             | Temperature                              | Range                                | Relative Humidity                 | Range                                  | CO2                              | Range   | # Occupants                       |
| <input type="text" value="920"/> | <input type="text" value="79.1"/>        | <input type="text" value="72 - 78"/> | <input type="text" value="70.5"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="474"/> | <input type="text" value="Max 700 &gt; Ambient"/> | <input type="text" value="5"/>    |
| Noticeable Odor                  | <input type="text" value="Yes"/>         |                                      | Visible water damage / staining?  |  | Visible microbial growth?        |   | Amount of material affected       |
| Ceiling Type                     | <input type="text" value="2x4 Lay In"/>  |                                      | <input type="text" value="No"/>   |  | <input type="text" value="No"/>  |   | <input type="text" value="None"/> |
| Wall Type                        | <input type="text" value="Drywall"/>     |                                      | <input type="text" value="No"/>   |  | <input type="text" value="No"/>  |   | <input type="text" value="None"/> |
| Flooring                         | <input type="text" value="12x12 Vinyl"/> |                                      | <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="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/>       |
| 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" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/>       |
| Surfaces in Room         | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/>       |

**Observations**

**Findings: (JROTC Building)**

- One stained ceiling tile in FISH 924
- Dust and debris on fan coil unit in FISH 927
- Dust and debris in AHU room
- Heavy microbial growth on rifles in FISH 924
- Temperature is elevated
- Humidity level is elevated

**Recommendations:**

**Site Based Maintenance:**

- Replace stained ceiling tile in FISH 924
- Clean rifles 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 Division:**

- Evaluate and repair cause of stained ceiling tile in FISH 924
- Clean fan coil unit in FISH 927
- Clean AHU room
- Evaluate and repair HVAC to decrease temperature and lower humidity level