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October 12, 2005

Signature on File

TO: Ms. Aimee Zekofsky, Principal
Apollo Middle School

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

SUBJECT: Indoor Air Quality (IAQ) Assessment
Portable 996C

On September 22, 2005 the IAQ Assessment Team conducted an assessment of Portable 996C at **Apollo Middle 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: Sam Gregg, Area Superintendent
Margaret Underhill, Area Director
Jeffrey S. Moquin, Director, Risk Management
David DeWald, 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
Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

KP/tc
Enc.

IAQ Assessment

Location Number 1791
 Evaluation Requested September 21, 2005
 Evaluation Date September 22, 2005

Apollo Middle School

Time of Day 11:45 pm

Outdoor Conditions Temperature 89.1 Relative Humidity 59.6 Ambient CO2 661

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
996C	73	72 - 78	49.1	30% - 60%	539	Max 700 > Ambient	0
Noticeable Odor	No		Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling Type	2 x 4 Lay In		Yes		Yes		Various
Wall Type	Tackable		Yes		Yes		All
Flooring	Tile		No		No		None

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	No	Yes	Yes	Replace stained tiles as appropriate
Walls	No	Yes	Yes	Replace all tackable surfaces
Flooring	Yes	No	No	
HVAC Supply Grills	No	Yes	Yes	Clean with Wexcide disinfectant
HVAC Return Grills	No	Yes	Yes	Clean with Wexcide disinfectant
Ceiling at Supply Grills				N/A
Surfaces in Room	No	Yes	Yes	Clean as appropriate

Observations

Findings:

- All tackable walls are saturated (50-90% moisture)
- Visible microbial growth on East wall next to whiteboard
- 25-40% moisture readings in insulation of false ceiling plenum
- Stained ceiling tiles
- Stained light cover (diffuser)
- Dust and debris on HVAC supply and return grills
- Dust and debris on environmental surfaces throughout the room
- Hinges on closet doors are broken

Recommendations:

Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution
- Clean environmental surfaces as appropriate
- Initiate a work order to repair closet doors
- 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:

- Remove and replace all tackable wall surfaces for high moisture content
- Evaluate for leaks and repair as appropriate
- Remove saturated insulation in false ceiling plenum and replace as appropriate
- Evaluate for roof leaks and repair and replace ceiling tiles and light fixtures (diffuser) as appropriate