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March 10, 2009

Signature on File

TO: Ms. Carletha Shaw, Principal
Attucks Middle School

FROM: Robert Krickovich, Coordinator, LEA
Facilities and Construction Management

SUBJECT: Indoor Air Quality (IAQ) Assessment
FISH 242 and 853

<u>For Custodial Supervisor Use Only</u>	
<input type="checkbox"/>	Custodial Issues Addressed
<input type="checkbox"/>	Custodial Issues Not Addressed

On February 12, 2009 I conducted an assessment of FISH 242 and 853 at **Attucks Middle School**. 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.

Please ensure that your Head Facilities Serviceperson receives a copy of this correspondence so that the recommendations requiring their attention can be addressed. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all issues have been appropriately addressed.

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. Joel Herbst, Area Superintendent
Dr. Gina Eyerman, Area Director
Jeffrey S. Moquin, **Executive** Director, Support Operations
Bob Sharps, Project Manager, Facilities and Construction Management
Jamie Daniels, Broward Teachers Union
Roy Jarrett, Federation of Public Employees
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 0343
 Evaluation Requested February 11, 2009
 Evaluation Date February 12, 2009

Attucks Middle School

Time of Day 2:18 pm

Outdoor Conditions Temperature 80.8 Relative Humidity 63 Ambient CO2 433

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
242	68.2	72 - 78	62	30% - 60%	1096	Max 700 > Ambient	26
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Ceiling Type		Yes		No		4 ceiling tiles	
Wall Type		Yes		No		Under Window	
Flooring		No		No		None	

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	No	Yes	Yes	Remove and replace stained ceiling tiles
Walls	Yes	No	No	
Flooring	Yes	No	No	
HVAC Supply Grills	Yes	No	No	
HVAC Return Grills	Yes	No	No	
Ceiling at Supply Grills	Yes	No	No	
Surfaces in Room	Yes	No	No	

Observations

Findings:
 - Complaint of mold under window. Area under the window was previously repaired but never painted. Wall in question is a solid block wall. No visible microbial growth. Spots on wall are paint or stucco primer.
 - 4 stained ceiling tiles

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 cause of stained ceiling tiles along window wall and repair as appropriate. Remove and replace stained ceiling tiles as necessary. **Note: Window wall is an interior corridor wall not exposed to weather.**
 - Finish repairs to wall and paint as appropriate - work order J356033

IAQ Assessment

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Attucks Middle School

Time of Day 2:18 pm

Outdoor Conditions Temperature 80.8 Relative Humidity 63 Ambient CO2 433

Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants
853	72.9	72 - 78	52.1	30% - 60%	1242	Max 700 > Ambient	25
Noticeable Odor	No		Visible water damage / staining?	Visible microbial growth?	Amount of material affected		
Ceiling Type	2 x 4		Yes	No	2 ceiling tiles		
Wall Type	Drywall		No	No	None		
Flooring	12 x 12 Vinyl		No	No	None		

	Clean	Minor Dust / Debris	Needs Cleaning	Corrective Action Required
Ceiling	No	Yes	Yes	Remove and replace stained ceiling tiles
Walls	Yes	No	No	
Flooring	Yes	No	No	
HVAC Supply Grills	No	Yes	Yes	Clean with Wexcide disinfectant
HVAC Return Grills	Yes	No	No	
Ceiling at Supply Grills	Yes	No	No	
Surfaces in Room	Yes	No	No	

Observations

Findings:

- Complaint of itching and rash on arms when in room
- CO2 level was slightly elevated at the time of the assessment
- Non-approved chemicals in room (Elmer's spray glue, Lysol cleaner, Glade spray and Glade plug-in)
- Minor dust and debris on HVAC supply grills
- 2 stained ceiling tiles
- Teachers desk chair is missing one arm rest and other arm rest is damaged
- FISH 860 (air handler unit room) - pan, coils and interior of unit were clean

Recommendations:

Site Based Maintenance:

- Clean HVAC supply grills with Wexcide disinfectant solution
- Replace teachers desk chair
- 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 cause of stained ceiling tiles and repair as appropriate. Remove and replace stained ceiling tiles as necessary.
- Evaluate HVAC for proper operation and repair as appropriate to lower CO2 level