



Jeffrey S. Moquin, Director Risk Management Department Telephone: 754-321-3200 Facsimile: 754-321-3290

June 7, 2005

TO:	Ms. Aimee Zekofsky, Principal Apollo Middle School
FROM:	Robert J. Krickovich, Coordinator, LEA Facilities and Construction Management, Environmental Division
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 201F, 201G and 201R

On April 27, 2005 the IAQ Assessment Team conducted an assessment of FISH 201F, 201G and 201R 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 754-321-1638.

cc: Sam Gregg, Area Superintendent Tina Butler, Area Director Jeffrey S. Moquin, Director, Risk Management David DeWald, Project Manager II, Facilities and Construction Management Ralph Eckhardt, 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								
Apollo Middle School				Evaluation Requested	April 26, 2005			
Time of Day	3:30 AM			Evaluation Date	April 27, 2005			
Outdoor Condition	s Temperatur	e 75.4	Relative Humidity	91 Ambie	ent CO2 445			
Fish Temp	^{berature} Range	Relative Humidity	/ Range	CO2 Rar	nge # Occupants			
201F	72.9 72 - 78	65.8	30% - 60%	524 < 1,00	0 PPM 2			
Noticeable Odor	No	Visible water damage / staining	Visible micro g? growth?	bial Amount of ma affected	terial			
Ceiling Type	2 x 4 Lay In	No	No		None			
Wall Type	Plaster	No	No		None			
Flooring	Carpet	No	No		None			
Ceiling	Clean Minor / Del Yes N	bris Cleaning]	Corrective Action Re	equired			
Walls	Yes	o No						
Flooring	Yes	o No						
HVAC Supply Grill	s Yes N	o No						
HVAC Return Grill	s Yes N	o No						
Ceiling at Supply Grills	Yes	o No						
Surfaces in Room	Yes	Νο						

Observations

Findings:

- None

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

			IAQ Asse	essment				
Apollo Middle School			chool	Evaluation Requested April 26, 2005				il 26, 2005
Time of Day	8:30 AM				I	Evaluation Date	Apr	il 27, 2005
Outdoor Condi	tions Ten	perature 7	′5.4 R	elative Humidi	ty 91	Ambie	nt CO2	445
Fish	Temperature	Range Rela	tive Humidity	Range	CO2	Ran	ge	# Occupants
201G	73.9 7	2 - 78	59.8 3	0% - 60%	524	< 1,000) PPM	0
Noticeable Odor Yes			Visible water Visible microbial Am damage / staining? growth?		Amount of mat affected	erial		
Ceiling Type	2 x 4 Lay	In	Νο	No			None	
Wall Type	Plaster		No	No]		None	
Flooring	Vinyl		No	No]		None	
Ceiling Walls	Clean Yes Yes Yes	Minor Dust / Debris No No	Needs Cleaning No No			ctive Action Re		
Flooring	Tes	NO	NO		New Hoo		IIStalleu	
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills Surfaces in Ro		No	No					
				L				

Observations

Findings:

- Odor is from new tile/glue recently installed in vault

Recommendations:

Site Based Maintenance: - Air out the room to eliminate odor from tile/glue - Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

			IAQ As	sessment				
	ļ	Apollo Middle S	chool		Evaluat	ion Requested	Apr	il 26, 2005
Time of Day	8:30 AM				I	Evaluation Date	Apr	il 27, 2005
Outdoor Condit	tions Terr	perature 7	5.4	Relative Hur	nidity 91	Ambie	nt CO2	445
Fish T	Temperature	Range Rela	tive Humidity	Range	CO2	Ran	ge	# Occupants
201R	73.2 7	2 - 78	65.2	30% - 60%	535	< 1,000	PPM	2
Noticeable Od	or No		'isible water age / staining		e microbial owth?	Amount of mat affected		
Ceiling Type	2 x 4 Lay	In	No		No		None	
Wall Type	Plaster		No		No		None	
Flooring	Vinyl		No		No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	quired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply (Grills Yes	Νο	No					
HVAC Return C	Grills Yes	Νο	No					
Ceiling at Supp Grills	ply Yes	No	No					
Surfaces in Ro	om Yes	No	No					

Observations

Findings:

- Broken HVAC duct work above FISH 201 (between 201R and 201U)

- Rodent droppings above ceiling in FISH 201
- Stained ceiling tiles in FISH 201 (at 201J)
- Ceiling is hanging low
- Ceiling in FISH 201N is partially missing

- HVAC air handler drain pan for Administrative area has standing water, slime and debris (condensate drain is propped up causing the water no to drain)

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 Division:

- Evaluate and repair broken duct work
- Investigate for rodents
- Replace stained ceiling tiles
- Evaluate and repair ceilings throughout second floor as appropriate
- Evaluate, repair and clean air handler unit, condensate drain and drain pan as appropriate