

managing risk with responsibility

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

September 5, 20	007 Signature on File
TO:	Mr. James McDermott,, Principal Forest Glen Middle School
FROM:	Robert Krickovich, Coordinator, LEA Facilities and Construction Management
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 805, 807 and 1901A

	Custodial Issues Addressed
1	Custodial Issues Not Addressed
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On August 9, 2007 I conducted an assessment of FISH 805, 807 and 1901A at **Forest Glen 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. Joanne Harrison, Area Superintendent Jackie Haywood, Area Director Jeffrey S. Moquin, Director, Risk Management Paul Bach, Project Manager, Facilities and Construction Management Gary Itzkowitz, Broward Teachers Union Roy Jarrett, National Federation of Public and Private Employees Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1 Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

RK/tc Enc.

			IAQ As:	sessment	Locatio	on Number	3051	
	For	rest Glen Mide	dle School		Evaluati	ion Requested	July 3	1, 2007
Time of Day	1:00 pm				E	Evaluation Date	Augus	t 9, 2007
Outdoor Condition	s Tem	perature	90.9	Relative Humidity	/ 53.4	Ambie	nt CO2	495
		Range Rel	lative Humidity	Range	CO2	Ran	ge #	Occupants
805	71.4 7 2	2 - 78	46	30% - 60%	474	Max 700	> Ambient	2
Noticeable Odor	No		Visible water mage / staining	Visible micr growth?		Amount of mat affected	terial	
Ceiling Type	2 x 2 Lay I	n	No	No			None	
Wall Type	Plaster		Yes	No		V	/arious	
Flooring	12 x 12 Vin	_' yl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Grill	s Yes	No	Νο					
HVAC Return Grill	s Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	Yes	No	No					

Observations Findings:

Severe water damage on wall common to FISH 807 - 20 linear feet 5 feet high. Plaster and paint is delaminating on wall.

-Recommendations:

Site Based Maintenance: - School based staff advised to initiate a work order to repair damage to the building structure

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	Locati	on Number	3051	
	Fore	est Glen Mie	ddle School		Evaluat	tion Requested	July 3	1, 2007
Time of Day 1	:00 pm				I	Evaluation Date	Augus	9, 2007
Outdoor Conditions	s Temp	perature [90.9	Relative Humidi	ty 53.4	Ambie	nt CO2	495
Fish Temp	perature R	ange R	elative Humidity	Range	CO2	Ran	ige #	Occupants
807	72.1 72	- 78	57.5	30% - 60%	478	Max 700	> Ambient	2
Noticeable Odor	No	d	Visible water lamage / staining	Visible mic ? growt		Amount of mat affected	terial	
Ceiling Type	2 x 2 Lay Ir	1	No	No]		None	
Wall Type	Plaster		Yes	No]	l V	/arious	
Flooring	12 x 12 Viny	/l	No	No]		None	
	Clean	Minor Dus / Debris	st Needs Cleaning		Corre	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Grill	s No	Yes	Yes		Clean wit	th Wexcide disi	infectant	
HVAC Return Grills	s Yes	No	No					
Ceiling at Supply Grills	Νο	Yes	Yes		Cle	an as appropri	ate	
Surfaces in Room	Yes	No	No					

Observations

Findings:

- Severe water damage on wall of air handler room and wall common to FISH 805 - 20 linear feet 5 feet high. Plaster and paint is delaminating on wall.

- Dust and debris on HVAC supply grills and on ceiling at supply grills

-Recommendations:

Site Based Maintenance:

- School based staff advised to initiate a work order to repair damage to the building structure

- Clean HVAC supply grills with Wexcide disinfectant solution and clean ceiling at supply grills

- 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	Locatio	on Number	3051	
		Forest Glen N	liddle School		Evaluat	ion Requested	July 3	31, 2007
Time of Day	1:00 pm				E	Evaluation Date	Augus	t 9, 2007
Outdoor Condi	itions Te	emperature	90.9	Relative Humic	dity 53.4	Ambie	nt CO2	495
Fish	Temperature	Range	Relative Humidity	Range	CO2	Ran	ge #	Occupants
1901A		72 - 78		30% - 60%		Max 700	> Ambien	t
Noticeable Oc	lor No		Visible water damage / staining	Visible m ? grow		Amount of mat affected	terial	
Ceiling Type	Ope	n	No	No			None	
Wall Type	Dryw	all	Yes	Yes	3	V	/arious	
Flooring	Bare Cor	ocrete	No	No	·		None	
	Clean	Minor Du / Debris			Correc	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Observations

Findings:

- FISH 1091A is the A/C closet inside of FISH 1901 (classroom). Water running down interior exterior wall from the second floor. FISH 1931A is an A/C closet on the second floor directly above FISH 1901A. The exterior wall of FISH 1901A on the first floor shows severe rust staining running down the wall from the A/C fresh air grill of FISH 1931A on the second floor.

-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:

- Check condensate drain in FISH 1931A to ensure it is not draining down the wall into FISH 1091A. Evaluate and repair cause of water intrusion into first floor. Repair/replace damaged drywall in FISH 1901A. See Findings above for additional details.