

managing risk with responsibility

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

November 7, 20	008 Signature re on File
TO:	Ms. Patricia Yackel, Principal Pines Lakes Elementary School
FROM:	Edward See, Project Manager Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 003, 117, 139 and 140

Fo	r Custodial Supervisor Use Only
	Custodial Issues Addressed
	Custodial Issues Not Addressed
-	

On October 30, 2008 I conducted an assessment of FISH 003, 117, 139 and 140 at **Pines Lakes Elementary 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 754-321-3200.

cc: Dr. Joel Herbst, Area Superintendent Valerie Wanza, Area Director Jeffrey S. Moquin, Director, Risk Management Frank Girardi, Project Manager, Facilities and Construction Management Steve Feldman, 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 Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

ES/tc Enc.

			IAQ As	sessment	Locati	on Number	2861	
	Pines l	_akes Element	ary School		Evaluat	tion Requested	October	13, 2008
Time of Day]			I	Evaluation Date	October	30, 2008
Outdoor Condit	tions Tei	mperature	76.9	Relative Humid	ty 44.8	3 Ambie	nt CO2	397
Fish T	[emperature	Range Re	lative Humidity	Range	CO2	Ran	ige #	Occupants
003	71.5	72 - 78	45.9	30% - 60%	678	Max 700	> Ambient	
Noticeable Od	or No]da	Visible water mage / staining	Visible mi ? growt		Amount of ma affected	terial	
Ceiling Type	2 x 4		No	No]		None	
Wall Type	Homaso	ote	No	No]		None	
Flooring	12 x 12 V	inyl	No	No]		None	
Ceiling	Clean	Minor Dust / Debris No	Needs Cleaning		Corre	ctive Action Re	equired	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply (Grills Yes	No	No					
HVAC Return G	Grills Yes	No	No					
Ceiling at Supp Grills	oly Yes	No	No					
Surfaces in Ro	om Yes	No	No					

Findings: - No issues identified

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 As	sessment	Locati	on Number	2861	
	Pines I	Lakes Element	tary School		Evaluat	tion Requested	October	13, 2008
Time of Day					I	Evaluation Date	October	30, 2008
Outdoor Condit	tions Te	mperature	76.9	Relative Humid	ity 44.8	B Ambie	nt CO2	397
Fish T	Temperature	Range Re	elative Humidity	Range	CO2	Ran	ige #	Occupants
117	74.4	72 - 78	43.1	30% - 60%	673	Max 700	> Ambient	
Noticeable Od	or No	da	Visible water amage / staining	Visible mi ? growt		Amount of ma affected	terial	
Ceiling Type	2 x 4		No	No			None	
Wall Type	Homaso	ote	No	No			None	
Flooring	12 x 12 V	'inyl	No	No			None	
Ceiling	Clean	Minor Dus / Debris No	t Needs Cleaning No		Corre	ctive Action Re	equired	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply (Grills Yes	No	No					
HVAC Return (Grills Yes	No	No					
Ceiling at Supp Grills	oly Yes	No	No					
Surfaces in Ro	om Yes	No	No					

Findings: - No issues identified

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 As	sessment	Location Number	2861
	Pines Lakes Eler	nentary School		Evaluation Requested	October 13, 2008
Time of Day				Evaluation Date	October 30, 2008
Outdoor Conditions	S Temperature	76.9	Relative Humidity	44.8 Ambio	ent CO2 397
	erature Range	Relative Humidity	Range	CO2 Ra	nge # Occupants
139	75.8 72 - 78	45.5	30% - 60%	671 Max 700) > Ambient 23
Noticeable Odor	No	Visible water damage / staining	Visible micro g? growth?		
Ceiling Type	2 x 4	Yes	No	20	ceiling tiles
Wall Type	Homasote	No	No		None
Flooring	12 x 12 Vinyl	No	No		None
Ceiling	Clean Minor / Deb No Ye	ris Cleaning		Corrective Action R emove and replace ce	
Walls	Yes	No			
Flooring	Yes	No			
HVAC Supply Grills	s Yes No	No			
HVAC Return Grills	s Yes No	No			
Ceiling at Supply Grills	Yes	No			
Surfaces in Room	Yes	No			

Findings:

- Occupant advised that A/C went down
- A/C return vent is incorporated into light grids
- Room feels stuffy

- 2 stained ceiling tiles at stove exhaust vent requiring cut

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 at stove exhaust vent and repair as appropriate. Remove and replace stained ceiling tiles requiring cut.

			IAQ As	sessment	Locati	on Number	2861	
	Pines L	akes Elementa	ry School		Evaluat	tion Requested	October	13, 2008
Time of Day					I	Evaluation Date	October	30, 2008
Outdoor Condit	ions Ten	nperature	76.9	Relative Humidi	ty 44.8	3 Ambie	nt CO2	397
Fish T	emperature	Range Rela	ative Humidity	Range	CO2	Ran	ige #	Occupants
140	76.5	/2 - 78	41.9	30% - 60%	614	Max 700	> Ambient	
Noticeable Odd	or No		Visible water nage / staining	Visible mic g? growtl		Amount of ma affected	terial	
Ceiling Type	2 x 4		No	No]		None	
Wall Type	Homaso	te	No	No]		None	
Flooring	12 x 12 Vi	nyl	No	No]		None	
Ceiling	Clean Yes	Minor Dust / Debris No	Needs Cleaning No		Corre	ctive Action Re	equired	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply C	Grills Yes	Νο	No					
HVAC Return G	Grills Yes	Νο	No					
Ceiling at Supp Grills	oly Yes	No	No					
Surfaces in Ro	om Yes	Νο	No					

Findings: - No issues identified

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