

FISH 141, 142 and 401

managing risk with responsibility

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September 9, 2008

Signature on File

For Custodial Supervisor Use Only

Custodial Issues Addressed

Custodial Issues Addressed

Custodial Issues Not Addressed

FROM: Edward See, Project Manager
Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

On September 5, 2008 I conducted an assessment of FISH 141, 142 and 401 at **Pinewood 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.

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.

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.

Dr. Leontine Butler, Area Superintendent
 Dr. Margaret Underhill, Area Director
 Jeffrey S. Moquin, Director, Risk Management
 Pierre Dougniaux, Project Manager, Facilities and Construction Management
 Ruby Fitzgerald, 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.

	Pinewood E	Elementary Sch	iool		Evaluation	Requested	September 2, 2008		
Time of Day					Eva	luation Date	September 5, 2008		
Outdoor Conditions	Temperat	ure 88.7	Relat	tive Humidity	59.6	Ambier	nt CO2 383		
	erature Range			ange	CO2	Ran			
141	73 72 - 78	66.2	30%	- 60%	861	Max 700 :	> Ambient 8		
Noticeable Odor		Visible water Visible damage / staining? gr		bial A	mount of mate affected				
Ceiling Type 2 x 4 Lay In		No)	No		None			
Wall Type Drywall/Homasote		Ye	Yes No			poradic stains			
Flooring	12 x 12 Vinyl	No		No			None		
		·	Needs leaning		Correctiv	ve Action Re	quired		
Ceiling	Yes	No	No						
Walls	No	Yes	Yes		N	No action			
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 [
bservations									
Findings: - Sporadic stains on 3	walls. No action	n necessary							

IAQ Assessment

3111

Location Number

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- Humidity level was slightly elevated at the time of the assessment
- Stuffed animals in room

Recommendations:

Site Based Maintenance:

- Thoroughly clean stuffed animals on a regular basis or remove from the room. Stuffed animals are a source of allergens if not cleaned frequently.
- 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 HVAC system for proper operation and repair as appropriate to lower humidity level

	Pinev	vood Element	ary School		Evaluati	on Requested [Septembe	r 2, 2008
Time of Day					E	valuation Date	Septembe	r 5, 2008
Outdoor Condition	ons Ten	nperature	88.7	Relative Humidity	59.6	Ambie	nt CO2	383
Fish Ter		Range Re	elative Humidity 65.4	Range 30% - 60%	CO2 791	Ran Max 700	ge # 0 > Ambient	Occupants 1
Noticeable Odor	No	da	Visible water amage / staining	Visible micr		Amount of mat	terial	
Ceiling Type	2 x 4 Lay		No	No	[None	
Wall Type	Drywall/Hom	asote	Yes	No	[3 walls - sporadic sta		ns
Flooring	12 x 12 Vii	nyl	No	No			None	
Clean Minor Dust Needs Corrective Action Required								
Ceiling	Yes	No	No					
Walls	No	Yes	Yes			No action		
Flooring	Yes	No	No					
HVAC Supply Gr	rills Yes	No	No					
HVAC Return Gr	ills Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Rooi	m Yes	No	No					
L Observations								
Findings:								
 Sporadic stains of the stains o				sment				
Recommendation	ns:							
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 HVAC system for proper operation and repair as appropriate to lower humidity level								

IAQ Assessment

3111

Location Number

		Pine	ewood Elem	entary School		Evaluat	ion Requested	Septemb	per 2, 2008
Time of Day				_		E	Evaluation Date	Septemb	per 5, 2008
Outdoor Condi	tions	Те	- mperature	88.7	Relative Humic	lity 59.6	Ambie	nt CO2	383
			•						
I	Tempe	rature	Range	Relative Humidity	- range	CO2	Ran	J	Occupants
401			72 - 78		30% - 60%		Max 700	> Ambient	t
Noticeable Od	lor	No		Visible water damage / staining	Visible m grow عر		Amount of mat affected	erial	
Ceiling Type		2 x 4 La	y In	No	No		None		
Wall Type				No	No		None		
Flooring		12 x 12 \	/inyl	No	No	_		None	
	(Clean	Minor D			Correc	ctive Action Re	quired	
Ceiling		No	Yes			Wi	ipe down ceilin	<u> </u>	
Cennig							Pe down centr	<u> </u>	
Walls		No	Yes	Yes		W	ipe down walls	5	
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	No	Yes	Yes		Cle	ean as necessa	ry	
Observations									
				gs - in NW corner o ironmental surface					
Recommendati	Recommendations:								
Site Based Maintenance: - Wipe down ceiling, walls and environmental surfaces throughout the room - In the future, generate a work order through COMPASS for pest control - 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: - Initiate a work order for pest control to evaluate									
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IAQ Assessment

3111

Location Number