

managing risk with responsibility

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

November 7, 2008		Signature re on File	For Custodial Supervisor Use Only				
TO:		neider, Principal	Custodial Issues Addressed				
	Davie Element	ary School	Custodial Issues Not Addressed				
FROM:	Edward See, Pr Risk Managem	roject Manager ent Department					
SUBJECT:	Indoor Air Qua FISH 101, 115,	lity (IAQ) Assessment 117 and 139					

On October 31, 2008 I conducted an assessment of FISH 101, 115, 117 and 139 at **Davie 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 Dr. Gina Eyerman, Area Director Jeffrey S. Moquin, Director, Risk Management Frank Girardi, Project Manager, Facilities and Construction Management Diane Watts, 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	Location	Number	2801	
	D	avie Elementa	ry School		Evaluation	Requested	October	⁻ 16, 2008
Time of Day					Eva	Iuation Date	October	⁻ 31, 2008
Outdoor Conditio	ons Tem	perature 8	82.6	Relative Humidit	y 51	Ambie	nt CO2	391
Fish Ter	mperature	Range Rela	ative Humidity	Range	CO2	Ran	nge #	Occupants
101	78.3 7	2 - 78	44.8	30% - 60%	802	Max 700	> Ambient	t 6
Noticeable Odor	No		Visible water nage / staining	Visible mic g? growth		mount of ma affected	terial	
Ceiling Type	2 x 4		Νο	No			None	
Wall Type	Drywall/Pla	ster	No	No			None	
Flooring	12 x 12 Vir	ıyl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correctiv	ve Action Re	equired	
Ceiling	No	Yes	Yes	Remo	ve and repl	ace damage	ed ceiling t	iles
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Gr	ills Yes	No	No					
HVAC Return Gr	ills Yes	No	No					
Ceiling at Supply Grills	YYes	No	No					
Surfaces in Roor	m No	Yes	Yes		Clean	as appropri	ate	

Findings:

- 3 damaged ceiling tiles

Occupant complaint of sinus infection. Paper with visible microbial growth was discarded and A/C was working sporadically.
Dust build up on environmental surfaces

Recommendations:

Site Based Maintenance:

- Remove and replace damaged ceiling tiles

- Thoroughly clean environmental surfaces throughout the room

- 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	2801	
	D	avie Elementa	ary School		Evaluat	ion Requested	October	16, 2008
Time of Day					I	Evaluation Date	October	31, 2008
Outdoor Condit	ions Terr	perature	82.6	Relative Hun	nidity 51	Ambie	nt CO2	391
Fish T	emperature	Range Rel	ative Humidity	Range	CO2	Ran	ige #	Occupants
115	73 7	2 - 78	54	30% - 60%	722	Max 700	> Ambient	1
Noticeable Ode	or No	da	Visible water mage / staining		microbial owth?	Amount of ma affected	terial	
Ceiling Type	2 x 4		Νο		No		None	
Wall Type	Drywall/Hom	asote	Νο		No		None	
Flooring	12 x 12 Vir	nyl	No		No		None	
Ceiling	Clean No	Minor Dust / Debris Yes	Needs Cleaning Yes			ctive Action Re e missing ceili	-	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply (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: (Teacher planning room)

- Metal clanking noise coming from A/C supply vent

- One (1) missing ceiling tile

Recommendations:

Site Based Maintenance:

- Generate a work order through COMPASS to evaluate cause of noise from A/C supply vent

- Replace missing ceiling tile

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

			IAQ Ass	sessment	Location Nu	mber	2801	
	Ľ	Davie Elementa	ary School		Evaluation R	equested	October	16, 2008
Time of Day]			Evalu	ation Date	October	31, 2008
Outdoor Cond	litions Ten	nperature	82.6	Relative Humidity	51	Ambie	nt CO2	391
Fish	Temperature	Range Rel	ative Humidity	Range	CO2	Ran	ige #	Occupants
117	72.2	72 - 78	54.1	30% - 60%	646	Max 700	> Ambient	3
Noticeable O	dor No		Visible water mage / staining	Visible micro ? growth?		ount of mat affected	terial	
Ceiling Type	2 x 4		Yes	No		1 ceiling	tile (front d	oor)
Wall Type	Homaso	te	No	No			None	
Flooring	12 x 12 Vi	nyl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	Action Re	equired	
Ceiling	No	Yes	Yes	Rem	ove and repla	ace staine	d ceiling ti	le
Walls	No	Yes	Yes		Repair/replac	ce as appr	opriate	
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	oply Yes	No	No					
Surfaces in R	oom Yes	No	No					

Findings: (Teacher planning room)

- Signs of previous water intrusion on East wall (buckled and rippled)

- One stained ceiling at front door

Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tile at front door. If stain returns generate a work order for Physical Plant Operations to evaluate for cause.

- 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 East wall for water intrusion and repair/replace wall materal as appropriate.

			IAQ As	sessment	Locatio	on Number	2801	
	0	Davie Eleme	ntary School		Evaluati	ion Requested	October	16, 2008
Time of Day]			E	Evaluation Date	October	31, 2008
Outdoor Condit	ions Ten	nperature	82.6	Relative Humidity	y 51	Ambie	nt CO2	391
Fish T	emperature	Range F	Relative Humidity	Range	CO2	Ran	ge #	Occupants
139	73.2	72 - 78	53	30% - 60%	877	Max 700	> Ambient	27
Noticeable Ode	or No] ,	Visible water damage / staining	Visible micr growth		Amount of mat affected	terial	
Ceiling Type	2 x 4		Νο	No			None	
Wall Type	Homaso	te	No	No			None	
Flooring	12 x 12 Vi	nyl	No	No			None	
Ceiling	Clean Yes	Minor Du / Debris No			Correc	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

- Stove rusted on cooking surface and exhaust vent

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