

## managing risk with responsibility

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Risk Management Department	Fax:	754 321-1917

October 26, 2010 Signature on File

TO: Mr. Michael Walker, Principal

Park Ridge Elementary School

FROM: Edward See, Project Manager

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 128, 148, 150 and 759

<u>Fo</u>	or Custodial Supervisor Use Only
	Custodial Issues Addressed
	Custodial Issues Not Addressed
-	

On October 25, 2010 I conducted an assessment of FISH 128, 148, 150 and 759 and a follow-up assessment of FISH 150 at **Park Ridge 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. In an attempt to separate IAQ issues from general maintenance items, the attached assessment may contain direction for site based staff to generate a work order through COMPASS. 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 754-321-1900.

cc: Sharon Airaghi, Area Superintendent

Anne Dilgen, Area Director

Jeffrey S. Moquin, Executive Director, Support Operations

Aston Henry, Supervisor, Risk Management

Dave Archer, Project Manager, Facilities and Construction Management

LaFrances Trotter, 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.

	Park Ridge F	Elementary Scl	nool		Evaluatio	n Requested	October 25, 2010
Time of Day 12:	30 pm				Ev	aluation Date [	October 25, 2010
Outdoor Conditions	Tempera	ture 84.4	Rela	ative Humidity	75.1	Ambier	nt CO2 394
Fish         Temper           128         72	rature Range 2.3 <b>72 - 78</b>	63.	7 30%	ange 5 - 60%	<b>CO2</b> 517	Rang Max 700	ge # Occupants > Ambient 2
Noticeable Odor	No		e water / staining?	Visible micro growth?	bial	Amount of material affect	
Ceiling Type	2 x 4 Lay In		0	No			None
Wall Type	Drywall		О	No	L		None
Flooring	12 x 12 Vinyl	N	0	No			None
(			Needs leaning		Correct	ive Action Re	quired
Ceiling	Yes	No	No				
Walls	Yes	No	No				
Flooring	Yes	No	No				
<b>HVAC Supply Grills</b>	Yes	No	No				
<b>HVAC Return Grills</b>	Yes	No	No				
Ceiling at Supply Grills	Yes	No	No				
Surfaces in Room	Yes	No	No				
oservations							•
Findings - Humidity level was s - No signs of water int Site Based Maintenance	trusion or microb	oial growth					
- 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							

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**Location Number** 

	Park R	Ridge Elementa	ry School		Evaluation	Requested October 25, 2010
Time of Day [	12:30 pm	]			Eva	luation Date October 25, 2010
Outdoor Condi	tions Ter	mperature	84.4 Re	lative Humidity	75.1	Ambient CO2 394
148	72.8	72 - 78		Range % - 60%	<b>CO2</b> 582	Range # Occupants  Max 700 > Ambient 17
Noticeable Od	lor No		Visible water nage / staining?	Visible micro growth?		Amount of material affected
Ceiling Type	2 x 4 Lay		Yes	No		1 ceiling tile
Wall Type	Drywal		No	No		None
Flooring	12 x 12 Vi	inyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Correctiv	ve Action Required
Ceiling	No	Yes	Yes	R	emove and	d replace ceiling tile
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply	Grills Yes	No	No			
HVAC Return	Grills Yes	No	No			
Ceiling at Sup Grills	pply Yes	No	No			
Surfaces in Ro	oom Yes	No	No			
bservations						
Findings - 1 stained ceiling - No signs of ware - Occupant in F Site Based Maing - Remove and r	ater intrusion or ISH 150 advised atenance: replace stained o	microbial growt d that FISH 148 ceiling tile.	triggers allergies	S.	ust and deb	ris accumulation and clean as

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**Location Number** 

	Park	Ridge Elemen	tary School		Evaluati	ion Requested	October 25, 2010
Time of Day [	12:30 pm				E	Evaluation Date	October 25, 2010
Outdoor Condi	tions T	emperature [	84.4	Relative Hum	nidity 75.1	Ambier	nt CO2 394
Fish 150	77.8	Range Re 72 - 78	56.2	Range 30% - 60% [	<b>CO2</b> 781	Ran Max 700	ge # Occupants > Ambient 3
Noticeable Od	lor No	d	Visible water amage / staining		microbial owth?	Amount of material affec	
Ceiling Type	2 x 4 La	ay In	No	1	No		None
Wall Type	Dryw	all	No	N	No		None
Flooring	12 x 12	Vinyl	No	N	No		None
	Clean	Minor Dus / Debris	t Needs Cleaning		Correc	ctive Action Re	quired
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				

**Location Number** 

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## **Observations**

## **Findings**

- Odor in room from air freshener -removed at the time of the assessment
- HVAC system not operating properly work order generated by site based staff (J465146)
- No signs of water intrusion or microbial growth
- 2 ceiling tiles not seated properly
- 3 stained ceiling tiles in hallway outside of FISH 129 from previous water intrusion leak has been repaired. Work order generated by site based staff to replace special cut tiles.
- Baseboard behind teacher's desk was pulled apart. Dark substance appears to be adhesive, not microbial growth. No moisture detected. Work order generated by site based staff.

## Site Based Maintenance:

- Remove non-approved chemicals (air fresheners) from the room. Avoid use of air fresheners as they contain chemicals that are a source of allergies.
- Ensure that ceiling tiles are installed properly
- Follow up with Physical Plant Operations on open work orders
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

	Park Ridge Elem	entary School		Evaluation Requested	October 25, 2010
Time of Day 12	:30 pm			Evaluation Date	October 25, 2010
Outdoor Conditions	Temperature	84.4 R	telative Humidity	75.1 Ambient	CO2 394
Fish Tempe	erature Range	Relative Humidity	Range	CO2 Range	# Occupants
759 7	<b>74.3 72 - 78</b>	57.1	60% - 60%	412 Max 700 >	
Noticeable Odor	No	Visible water damage / staining?	Visible micro growth?	bial Amount of material affecte	d
Ceiling Type	2 x 4 Lay In	No	No		one
Wall Type	Drywall	No	No	No	one
Flooring	12 x 12 Vinyl	No	No	N	one
	Clean Minor D			Corrective Action Requ	uired
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 Supply Grills	Yes No	No			
Surfaces in Room	No Yes	Yes		Clean as appropriate	e
bservations					
Findings - Minor dust build up - No signs of water in Site Based Maintenand - Thoroughly clean wi	trusion or microbial g ce: indow frames to remo	ove dust and debris	owth as well as du	st and debris accumulatio	on and clean as

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**Location Number**