



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

March 6, 2007

**Signature on File** 

TO:	Ms. Camille Pontillo, Principal Park Springs Elementary School			
FROM:	Aston A. Henry, Jr., Supervisor			

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 136, 137, 138, 139 and 146

On February 14, 2007 I conducted an assessment of FISH 136, 137, 138, 139 and 146 at **Park Springs 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. 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.

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. Joanne Harrison, Area Superintendent Jackie Haywood, Area Director
Jeffrey S. Moquin, Director, Risk Management Paul Bach, Project Manager, Facilities and Construction Management Ruby Fitzgerald, Broward Teachers Union
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

AAH/tc Enc.

			IAQ As	sessment	Location Number	3171
	Park Sp	rings Elementa	ry School		Evaluation Requested	January 12, 2007
Time of Day	2:00 pm	]			Evaluation Date	e February 14, 2007
Outdoor Condi	itions Ten	nperature	37.1	Relative Humidity	45.2 Amb	ient CO2 379
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ra	ange # Occupants
136	66.3	/2 - 78	63.1	30% - 60%	1447 Max 70	<b>0 &gt; Ambient</b> 9
Noticeable Od	lor No		/isible water nage / staining	Visible micro growth?	bial Amount of m affected	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywal		No	No		None
Flooring	Tile		No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action F	Required
Ceiling	Yes	Νο	No			
Walls	Yes	Νο	No			
Flooring	Yes	Νο	No			
HVAC Supply	Grills Yes	Νο	No			
HVAC Return	Grills No	Yes	Yes	C	lean with Wexcide di	sinfectant
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom Yes	No	No			

### Findings:

- No visible signs of microbial growth or water intrusion

- Dust and debris on HVAC return grills

- Temperature was low and humidity and CO2 level was elevated at the time of the assessment. HFSP advised that the temperature has been adjusted several times and the humidity levels still remain elevated.

#### -Recommendations:

#### Site Based Maintenance:

- Clean HVAC return grills with Wexcide disinfectant solution

- 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 for proper operation and adjust to increase temperature and lower humidity level
- Evaluate fresh air damper and repair as appropriate to lower CO2 level

			IAQ As	sessment	Location Number	3171
	Park Sp	rings Elementa	ry School		Evaluation Request	ed January 12, 2007
Time of Day	1:35 pm	]			Evaluation D	ate February 14, 2007
Outdoor Condi	tions Ten	nperature	87.1	Relative Humidity	45.2 Am	ibient CO2 379
Fish	Temperature	Range Rela	ative Humidity	Range	CO2	Range # Occupants
137	69.7	72 - 78	70	30% - 60%	1092 <b>Max</b> 7	700 > Ambient 8
Noticeable Od	or No		Visible water nage / staining	Visible micro g? growth?		
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywal	l	No	No		None
Flooring	Tile		No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning	l	Corrective Actior	n Required
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply	Grills Yes	No	No			
HVAC Return	Grills No	Yes	Yes	C	lean with Wexcide	disinfectant
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom Yes	No	No			

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### Physical Plant Operations:

			IAQ As	sessment	Location Number	3171
	Park Sp	rings Elementa	ry School		Evaluation Requested	January 12, 2007
Time of Day	1:45 pm	]			Evaluation Dat	<b>e</b> February 14, 2007
Outdoor Condi	tions Ter	nperature	37.1	Relative Humidity	45.2 Amb	ient CO2 379
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 R	ange # Occupants
138	68.7	72 - 78	70	30% - 60%	1025 Max 70	00 > Ambient 5
Noticeable Od	or No		/isible water nage / staining	Visible micro g? growth?		
Ceiling Type	2 x 4 Lay	' In	No	No		None
Wall Type	Drywal	l	No	No		None
Flooring	Tile		No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action	Required
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply	Grills Yes	No	No			
HVAC Return (	Grills No	Yes	Yes	C	lean with Wexcide d	isinfectant
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom Yes	No	No			

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## Physical Plant Operations:

			IAQ As	sessment	Location N	lumber	3171	
	Park Spr	ings Elementa	ary School		Evaluation	Requested	January	12, 2007
Time of Day	2:00 pm				Eval	uation Date	February	/ 14, 2007
Outdoor Conditi	ions Tem	perature	87.1	Relative Humidity	45.2	Ambie	nt CO2	379
Fish Te	emperature	Range Re	ative Humidity	Range	CO2	Ran	ige #	Occupants
139	66.6 <b>7</b>	2 - 78	64.8	30% - 60%	1063	] Max 700	> Ambient	4
Noticeable Odo	or No	da	Visible water mage / staining	Visible micro growth?	obial An	nount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	No	No			None	
Wall Type	Drywall		No	No			None	
Flooring	Tile		No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	e Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply G	Grills Yes	No	Νο					
HVAC Return G	irills Yes	No	Νο					
Ceiling at Supp Grills	ly Yes	No	No					
Surfaces in Roc	om Yes	No	No					

#### Findings:

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#### -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:

		IAQ As	sessment	Location Number	3171
	Park Springs E	Elementary School		Evaluation Requested	January 12, 2007
Time of Day	2:00 pm			Evaluation Date	February 14, 2007
Outdoor Condition	s Temperat	ure 87.1	Relative Humidity	45.2 Ambie	ent CO2 379
Fish Tem	perature Range	Relative Humidity	Range	CO2 Rar	nge # Occupants
146	64.1 <b>72 - 78</b>	66.8	30% - 60%	949 Max 700	> Ambient 4
Noticeable Odor	No	Visible water damage / stainin	Visible micro g? growth?	obial Amount of ma affected	terial
Ceiling Type	2 x 4 Lay In	No	No		None
Wall Type	Drywall	No	No		None
Flooring	Tile	No	No		None
		or Dust Needs Debris Cleaning	3	Corrective Action Re	equired
Ceiling	Yes	No			
Walls	Yes	No			
Flooring	Yes	No			
HVAC Supply Grill	s Yes	No			
HVAC Return Grill	s Yes	No			
Ceiling at Supply Grills	Yes	No			
Surfaces in Room	Yes	No			

#### Findings:

- Visible microbial growth on furniture

- Temperature was low and humidity level was elevated at the time of the assessment. HFSP advised that the temperature has been adjusted several times and the humidity levels still remain elevated.

#### -Recommendations:

#### Site Based Maintenance:

- Clean furniture with Wexcide disinfectant solution

- 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: