

managing risk with responsibility

Telephone: 754-321-3200

Facsimile: 754-321-3290

Jeffrey S. Moquin, Director Risk Management Department

May 23, 2007

TO:

FROM:

SUBJECT:

Signature on File	For Custodial Supervisor Use Only				
Ms. Jeannie Floyd, Principal	Custodial Issues Addressed				
Park Lakes Annex Elementary School	Custodial Issues Not Addressed				
Edward See, Project Manager Risk Management Department					
Indoor Air Quality (IAQ) Assessment					

On May 10, 2007 I conducted an assessment of FISH 101, 101A and the site at **Park Lakes Annex 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. Harry LaCava, Area Superintendent

Fran Bolden, Area Director

Michael Garretson, Deputy Superintendent, Facilities and Construction Management

Jeffrey S. Moquin, Director, Risk Management

Robert Goode, Project Manager, Facilities and Construction Management

Israel Rodriguez-Soto, Project Manager, Facilities and Construction Management

Dane Ramson, Broward Teachers Union

FISH 101, 101A and Site

Roy Jarrett, National Federation of Public and Private 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

	Park Lakes	Annex Elem	entary School		Evaluat	ion Requested	May 10	0, 2007
Time of Day	11:15 am				ı	Evaluation Date	May 10	0, 2007
Outdoor Cond	itions To	emperature	81.9	Relative Hum	idity 53.5	Ambie	nt CO2	513
Fish	Temperature	Range	Relative Humidity	' Range	CO2	Ran	ge #	Occupants
101	69.7	72 - 78	66.4	30% - 60%	658	Max 700	> Ambient	5
Noticeable O	dor No		Visible water damage / staining		microbial wth?	Amount of mat affected		
Ceiling Type	2 x 4 La	ay In	Yes	N	lo	1 C	eiling Tile	
Wall Type	Wood F	Panel	No	N	lo	None		
Flooring	Carp	et	No	No None			None	
	Clean	Minor D / Debri		ı	Corre	ctive Action Re	equired	
Ceiling	No	Yes	Yes		Remove	and replace ce	iling tile	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills No	Yes	Yes		Clean wit	h Wexcide disi	nfectant	
HVAC Return	Grills No	Yes	Yes		Clean wit	h Wexcide disi	nfectant	
Ceiling at Sup Grills	oply Yes	No	No					
Surfaces in R	oom Yes	No	No					

IAQ Assessment

3761

Location Number

Observations

Findings:

- 1 stained ceiling tile
- Dust and debris on HVAC supply and return grills
- A/C window unit has incorrect filter
- Dust and debris on A/C window unit coils and cover is damaged/missing
- Temperature was low and humidity level was elevated at the time of the assessment

-Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tile
- · Clean HVAC supply and return grills with Wexcide disinfectant solution
- Adjust the thermostat to increase the temperature. Continue to monitor condition and initiate a work order for Physical Plant Operations to evaluate the HVAC system if temperature does not improve.
- 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:

- Clean A/C window unit coils and replace damaged/missing cover

Time of Day	11:15	ā am					Eva	luation Date May 10, 2007
Outdoor Condi	tions	Tempe	erature	81.9	Relative Hur	nidity	53.5	Ambient CO2 513
Fish	Tempera	^{ture} Ra	nge Rel	ative Humidity	Range	(CO2	Range # Occupants
101A	73.8	72 -	· 78	57.8	30% - 60%		684	Max 700 > Ambient 2
Noticeable Od	lor _	No		Visible water nage / staining		microkowth?	oial A	mount of material affected
Ceiling Type	2	x 4 Lay In		No		No		None
Wall Type	W	ood Panel		No		No		None
Flooring		Carpet		No		No		None
	CI	ean I	Minor Dust / Debris	Needs Cleaning	l		Correctiv	re Action Required
Ceiling		Yes	No	No				
Walls		Yes	No	No				
Flooring		Yes	No	No				
HVAC Supply Grills No Yes Clean with Wexcide disinfectant						Vexcide disinfectant		
HVAC Return Grills No Yes				Yes Clean with Wexcide disinfectant				
Ceiling at Sup Grills	ply [Yes	No	No				
Surfaces in Ro	oom [Yes	No	No				
bservations								
Findings: - Dust and debri	is on HV	AC supply	and return g	rills				
- A/C window unit has incorrect filter - Dust and debris on A/C window unit coils and cover is damaged/missing								
-Recommendat					3			
Site Resed Mai								
Site Based Maintenance: - Clean HVAC supply and return grills with Wexcide disinfectant solution								
- Remove and replace A/C filter with correct size filter - 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:								
- Clean A/C window unit coils and replace damaged/missing cover								

IAQ Assessment

Park Lakes Annex Elementary School

3761

May 10, 2007

Location Number
Evaluation Requested

Time of Day 11:15 am				Evalu	ation Date M	ay 10, 2007
Outdoor Conditions Tem	perature 81.	.9 R	elative Humidity	53.5	Ambient CO2	513
Fish Temperature R	Range Relativ	e Humidity	Range	CO2	Range	# Occupants
Site 72	2 - 78	3	0% - 60%		Max 700 > Amb	ient
Noticeable Odor		sible water ge / staining?	Visible micro growth?	bial Am	ount of material affected	
Ceiling Type						
Wall Type						
Flooring						
Clean	Minor Dust / Debris	Needs Cleaning		Corrective	Action Required	I
Ceiling						
Walls						
Flooring						
HVAC Supply Grills						
HVAC Return Grills						
Ceiling at Supply Grills						
Surfaces in Room						
bservations						
Findings: - Air handler units on roof are leaking water and there is dust and debris on filters. Standing water on roof top Roof in need of replacement - varous areas have been patched HVAC system in need of upgrade						
-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 standing water on roof top and remove and replace filters in air handler units						
Facilities and Construction Management: - Expedite project to replace roof						
- Expedite project to upgrade HVAC system						
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IAQ Assessment

Park Lakes Annex Elementary School

3761

May 10, 2007

Location Number
Evaluation Requested