

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

February 12	2, 2008 Signature on Fi	For Custodial Supervisor Use Only
TO:	Ms. Sarah Hausman,, Principal	Custodial Issues Addressed
10.	Wingate Oaks Center	Custodial Issues Not Addressed
FROM:	Edward See, Project Manager Risk Management Department	

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 103A, 104A, 905 and 906

On September 14, 2007 I conducted an assessment of FISH 103A, 104A, 905 and 906 at **Wingate Oaks Center**. 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. Leontine Butler, Area Superintendent
Toni Weissberg, Area Director
Jeffrey S. Moquin, Director, Risk Management
Robert Goode, Project Manager, Facilities and Construction Management
Dane Ramson, 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.

	Win	gate Oaks Center		Evaluation Requested					
Time of Day	1:00 pm			Evaluation Date	September 14, 2007				
Outdoor Condition	ns Temperati	ure 87.4	Relative Humidity	64.7 Ambie	ent CO2 469				
	perature Range	Relative Humidit	y Range	CO2 Ran	nge # Occupants				
103A	71 72 - 78	50.5	30% - 60%	595 Max 700	> Ambient 1				
Noticeable Odor	No	Visible water damage / stainir			terial				
Ceiling Type	Drywall	No	No		None				
Wall Type	Drywall	No	No		None				
Flooring	12 x 12 Vinyl	No	No		None				
		or Dust Needs ebris Cleanin		Corrective Action Re	equired				
Ceiling		No No							
Walls	Yes	No No							
Flooring	Yes	No No							
HVAC Supply Gril	Is Yes	No No							
HVAC Return Grill	Is Yes	No No							
Ceiling at Supply Grills	Yes	No							
Surfaces in Room	Yes	No No							
Dbservations									
Findings: (closet) - Vent was recently Recommendations	installed in the door	to allow air circulation	on						
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									
Note - Work orders are in progress - EQ00935, EQ00936 and EQ00937									

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Location Number

	Wing	ate Oaks Center		Evaluation Requested					
Time of Day 1:	:00 pm	_		Evaluation Date	September 14, 2007				
Outdoor Conditions	5 Temperatu	re 87.4	Relative Humidity	64.7 Ambi	ent CO2 469				
I	Perature Range 73.8 72 - 78	Relative Humidity	30% - 60%	650 Max 70	nge # Occupants 0 > Ambient 3				
Noticeable Odor	No	Visible water damage / stainin	Visible micro g? growth?						
Ceiling Type	2 x 4 Lay In	No	No		None				
Wall Type	Drywall	No	No		None				
Flooring	12 x 12 Vinyl	No	No		None				
		r Dust Needs ebris Cleaning	g	Corrective Action R	equired				
Ceiling	Yes	No No							
Walls	Yes	No No							
Flooring	Yes	lo No							
HVAC Supply Grills	s Yes N	No No							
HVAC Return Grills	Yes	No No							
Ceiling at Supply Grills	Yes	No No							
Surfaces in Room	Yes	o No							
L Observations									
Findings: (Principa - 5 live plants in room	1								
Recommendations:									
Site Based Maintenance: - Remove live plants. Soil is a source of microbial growth - Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate									
Note - Work orders are in progress - EQ00935, EQ00936 and EQ00937									

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Location Number

			Wingat	e Oaks	Center			Evaluat	ion Requested			
Time of Day	1:0	00 pm						ı	Evaluation Date	Septem	nber 14, 2	2007
Outdoor Condi	tions	Te	emperature	87	7.4	Relati	ve Humid	ity 64.7	Ambie	ent CO2 [469	
Fish	Tempe	rature	Range	Relati	ve Humidity	' Raı	nge	CO2	Ran	nge	# Occup	pants
905	71	1.7	72 - 78		58.4	30% -	_	668	Max 700	_	ent 3	3
Noticeable Od	lor [Yes		Visible water damage / staining		g?	Visible micro? growth?					
Ceiling Type		2 x 4 La	ıy In		No		No			None		
Wall Type		Drywa	all		No		No			None		
Flooring	•	12 x 12 \	/inyl		No		No			None		
	•	Clean	Minor I / Deb		Needs Cleaning	I		Corre	ctive Action Re	equired		
Ceiling		Yes	No		No							$\square \mid$
Walls		Yes	No		No							
Flooring		Yes	No		No							\square
HVAC Supply	Grills	Yes	No		No							$\square \mid$
HVAC Return (Grills	Yes	No		No							$\square \mid$
Ceiling at Supp Grills	ply	Yes	No		No							
Surfaces in Ro	oom	Yes	No		No							
bservations												
Findings:												

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Location Number

- Odor in room from air freshener
- 5 live plants in room
- 3 small areas on tackboard green substance appears to be glue. No signs of water intrusion or elevated moisture content.

Recommendations:

Site Based Maintenance:

- Remove air freshener
- Remove live plants. Soil is a source of microbial growth
- Clean tackboard
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Note - Work orders are in progress - EQ00935, EQ00936 and EQ00937

		Wingate Oak	s Center		Evaluat	ion Requested	
Time of Day	1:00 pm]			E	Evaluation Date September	14, 2007
Outdoor Cond	itions Ter	mperature 8	37.4	Relative Hun	nidity 64.7	Ambient CO2	469
Fish	Temperature	Range Rela	tive Humidity	Range	CO2	Range # 0	ccupants
906	71.4	72 - 78	65.1	30% - 60%	623	Max 700 > Ambient	5
Noticeable O	dor No		/isible water nage / staining		microbial owth?	Amount of material affected	
Ceiling Type	2 x 4 Lay	/ In	Yes		No	1 ceiling tile	
Wall Type	Drywa	I	No		No	None	
Flooring	12 x 12 V	inyl	No		No	None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Required	
Ceiling	No	Yes	Yes	Remove and 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	oply Yes	No	No				
Surfaces in R	oom Yes	No	No				
bservations							
- Humidity level Recommendate Site Based Ma - Remove and I	intenance: replace stained o	ceiling tile				ct bris accumulation and clean	as
Niete West	ordere are i		E00002E I	-000000 a	LO0003	-	

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Location Number