

managing risk with responsibility

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December 21, 2006

Signature on File

TO: Ms. Nancy A. Moore, Principal

Coral Park Elementary School

FROM: Aston A. Henry, Jr., Supervisor

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 120D, 501, 506, 513 and 514

On December 13, 2006 I conducted an assessment of FISH 120D, 501, 506, 513 and 514 at **Coral Park 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

Denise Cone, 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.

	Coral Park Elem	ientary School		Evaluation Requested December 12, 2006
Time of Day 12	2:30 pm			Evaluation Date
Outdoor Conditions	Temperature	78.5	Relative Humidity	67.8 Ambient CO2 380
Fish Tempo	erature Range 72 - 78	Relative Humidity	Range 30% - 60%	CO2 Range # Occupants Max 700 > Ambient
Noticeable Odor	No	Visible water damage / staining	Visible micro growth?	bial Amount of material affected
Ceiling Type	2 x 4 Lay In	No	No No	None
Wall Type	Drywall	No	Yes	Rear Wall
Flooring	Tile	No	No	None
	Clean Minor D			Corrective Action Required
Ceiling	Yes No	No		
Walls	No Yes	Yes	Clea	n and repaint wall as appropriate
Flooring	Yes No	No		
HVAC Supply Grills	yes No	No		
HVAC Return Grills	Yes	No		
Ceiling at Supply Grills				N/A
Surfaces in Room	Yes No	No		
appropriate Physical Plant Oper	ance: this location for any s ations:			t and debris accumulation and clean as n wall to remove growth and repaint as

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Location Number

	Coral F	Park Elementary	School		Evaluation F	Requested Decer	nber 12, 2006
Time of Day	12:00 pm				Evalu	uation Date Decer	nber 13, 2006
Outdoor Condi	tions Tem _l	perature 78.	5 R	elative Humidity	67.8	Ambient CO2	380
Fish 501		2 - 78		60% - 60%	CO2 414	Range Max 700 > Ambi	# Occupants ent 4
Noticeable Od	lor No		ible water ge / staining?	Visible microl growth?	bial Am	nount of material affected	
Ceiling Type	2 x 4 Lay I	n	Yes	No		One ceiling t	ile
Wall Type	Drywall		No	No		None	
Flooring	Tile		No	No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	Action Required	
Ceiling	No	Yes	Yes	Rem	nove and re	place one ceiling	tile
Walls	Yes	No	No				
Flooring	Yes	No	No				
HVAC Supply	Grills Yes	No	No				
HVAC Return (Grills Yes	No	No				
Ceiling at Supp Grills	ply					N/A	
Surfaces in Ro	oom Yes	No	No				
bservations							
	eiling tile over sink was elevated at tl		sessment				
Recommendati	ions:						
Site Based Mai - Continue to mo appropriate		n for any signs of	microbial gro	wth as well as dust	t and debris	accumulation and c	elean as
				as appropriate. R	emove and	replace stained ceil	ing tile.

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Location Number

	Coral F	Park Elementar	y School		Evaluation	Requested December 12, 2006
Time of Day	12:30 pm				Eva	December 13, 2006
Outdoor Condi	tions Tem	perature 7	8.5	Relative Humidity	67.8	Ambient CO2 380
		ange Relat	tive Humidity	Range	CO2	Range # Occupants
506	74 7 2	2 - 78	59.3	30% - 60%	489	Max 700 > Ambient 4
Noticeable Od	lor No		isible water age / staining	Visible micro g? growth?		Amount of material affected
Ceiling Type	2 x 4 Lay I	n	Yes	No		One ceiling tile
Wall Type	Drywall		No	No		None
Flooring	Tile		No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning	J	Correctiv	ve Action Required
Ceiling	No	Yes	Yes	Rer	nove and I	replace one 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	ply					N/A
Surfaces in Ro	oom No	Yes	Yes		Clean	as appropriate
bservations						
Findings:						
 Visible microbi 	ial growth on woo	den shelves				

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Location Number

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- One stained ceiling tile towards the front of the classroom
- Minor dust and debris on environmental surfaces

Recommendations:

Site Based Maintenance:

- Discard wood shelf cabinet
- Clean environmental surfaces as appropriate to remove minor dust and debris
- 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 stained ceiling tile in the front of the classroom and repair as appropriate. Remove and replace stained ceiling tile.

Time of Day 12	2:50 pm					Eval	December 13, 200	6
Outdoor Conditions	3 Tem	perature	78.5	Relative Hur	midity 6	7.8	Ambient CO2 380	
Fish Temp	perature F	Range Re	elative Humidity	Range	CO2		Range # Occupar	nts
513	70.3 7	2 - 78	75.6	30% - 60%	476		Max 700 > Ambient 4	$\exists I$
Noticeable Odor	Yes	da	Visible water amage / staining		e microbial owth?	An	nount of material affected	_
Ceiling Type	2 x 4 Lay		No		No		None	<u> </u>
Wall Type	Drywall		No		No		None	
Flooring	Tile		No		No		None]
	Clean	Minor Dus / Debris	t Needs Cleaning		Cor	rective	Action Required	
Ceiling	Yes	No	No					
Walls	No	Yes	Yes		C	lean a	s appropriate]
Flooring	Yes	No	No					$\rfloor \Big $
HVAC Supply Grill	s Yes	No	No]
HVAC Return Grills	s Yes	No	No]
Ceiling at Supply Grills							N/A]
Surfaces in Room	Yes	No	No					
Observations Findings: - Minor dust and deb								
 Odor appears to be Humidity level was 								
Recommendations	:							
Site Based Mainten - Wipe down walls to - Clean or discard ca - Continue to monitor appropriate	remove mir rpet mats			owth as well	as dust and	debris	accumulation and clean as	
Physical Plant Ope - Evaluate and repail	<u>rations:</u> r HVAC syst	em to lower h	numidity level					

Coral Park Elementary School

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December 12, 2006

Location Number
Evaluation Requested

	Coral Pa	ark Elementa	ry School		Evaluation	Requested December 12, 2006
Time of Day	12:50 pm				Evalu	uation Date December 13, 2006
Outdoor Condition	ons Temp	erature	78.5	Relative Humidity	67.8	Ambient CO2 380
Fish Te	mperature Ra	ange Rela	ative Humidity	Range	CO2	Range # Occupants
514	72	- 78		30% - 60%		Max 700 > Ambient
Noticeable Odo	No		Visible water nage / staining	Visible micro growth?	bial An	nount of material affected
Ceiling Type	2 x 4 Lay In	ı	No	No		None
Wall Type	Drywall		No	No		None
Flooring	Tile		No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	e Action Required
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply G	rills Yes	No	No			
HVAC Return Gr	ills Yes	No	No			
Ceiling at Suppl Grills	у 🔲					N/A
Surfaces in Roo	m Yes	No	No			
Observations Findings: - Elevated moisture	re content in insu	ılation in lowe	er half of the H	VAC unit.		
Recommendation	ns:					
Site Based Maint - Continue to mon appropriate		for any signs	of microbial gr	owth as well as dus	t and debris	accumulation and clean as
Physical Plant O - Evaluate cause of insulation		ture in insulat	ion in lower ha	ulf of HVAC unit and	repair as ap	propriate and remove and replace

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Location Number