

managing risk with responsibility

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

July 17, 2008	Signature on File				
TO:	Mr. Ronald Forsman, Principal Rickards Middle School				
FROM:	Edward See, Project Manager Risk Management Department				
SUBJECT:	Indoor Air Quality (IAQ) Assessment Portable 84, 503CX and 927C				

For Custodial Supervisor Use Only							
	Custodial Issues Addressed						
	Custodial Issues Not Addressed						
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On July 16, 2008 I conducted an assessment of Portable 95, 503CX and 927C at **Rickards Middle 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. Leontine Butler, Area Superintendent Dr. Margaret Underhill, 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.

			IAQ As	sessment	Locatio	on Number	2121	
		Rickards Mide	dle School		Evaluat	ion Requested	July 1	4, 2008
Time of Day	2:05 pm				E	Evaluation Date	July 1	6, 2008
Outdoor Condition	ns Tem	perature	82.3	Relative Humidi	ty 70.5	Ambie	nt CO2	389
Fish Tem	nperature F	ange Rel	ative Humidity	Range	CO2	Ran	ge #	Occupants
P-84	77.4 7 2	2 - 78	44	30% - 60%	418	Max 700	> Ambient	2
Noticeable Odor	No	da	Visible water mage / staining	Visible mie growt		Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay	n	Νο	No			None	
Wall Type	Drywall		Yes	Yes		1 sc	uare foot	
Flooring	12 x 12 Vin	yl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	No	Yes	Yes		Repair/r	eplace as appr	opriate	
Flooring	Yes	No	No					
HVAC Supply Gri	lls Yes	No	Νο					
HVAC Return Gri	lls Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	n Yes	No	No					

Observations

Findings:

- Visible damage/staining and microbial growth on South wall under A/C shaker unit

Recommendations:

Site Based Maintenance:

- Wipe down wall with Wexcide disinfectant solution to remove microbial growth until repairs are facilitated by Physical Plant Operations

- 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 damage/staining and microbial growth on South wall under A/C shaker unit and repair as appropriate. Repair/replace wall material as necessary.

			IAQ As	sessment	Locatio	on Number	2121	
		Rickards Middl	e School		Evaluat	ion Requested	July 1	4, 2008
Time of Day	2:05 pm				E	Evaluation Date	July 1	6, 2008
Outdoor Condit	tions Tem	perature 8	32.3	Relative Humi	dity 70.5	Ambie	nt CO2	389
	emperature F	Range Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants
P-503CX	73.4 7	2 - 78	56.8	30% - 60%	426	Max 700	> Ambient	2
Noticeable Ode	or No		/isible water hage / staining	Visible m ? grow		Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay	In	No	No	D		None	
Wall Type	Tackable	;	Νο	No	D	20% W	ME - all wal	ls
Flooring	12 x 12 Vin	yl	No	No	D		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	quired	
Ceiling	Yes	No	No					
Walls	No	Yes	Yes		Repair/r	eplace as appr	opriate	
Flooring	Yes	No	No					
HVAC Supply (Grills Yes	No	No					
HVAC Return G	Grills Yes	Νο	No					
Ceiling at Supp Grills	oly Yes	No	No					
Surfaces in Ro	om Yes	No	No					

Observations Findings:

- Elevated moisture content in all 4 walls - 20% WME - particularly East wall, Northeast corner, West wall under whiteboard and South wall under windows

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 elevated moisture content in all walls and repair as appropriate. Repair/replace wall material as necessary.

			IAQ As	sessment	Locatio	on Number	2121	
	F	Rickards Mid	dle School		Evaluat	ion Requested	July 1	4, 2008
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Outdoor Condition	s Temj	perature	82.3	Relative Humidi	ty 70.5	Ambie	nt CO2	389
Fish Tem	perature R	ange Re	elative Humidity	Range	CO2	Ran	ge #	Occupants
P-927C	82.8 72	2 - 78	67.9	30% - 60%	412	Max 700	> Ambien	t 2
Noticeable Odor	No	da	Visible water amage / staining	Visible mi ? growt		Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay I	n	Νο	No]		None	
Wall Type	Tackable		Yes	No]	West ar	nd South wa	all
Flooring	12 x 12 Viny	/I	No	No]		None	
	Clean	Minor Dus / Debris	t Needs Cleaning		Corre	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	Νο	Yes	Yes		Repair/r	eplace as appr	opriate	
Flooring	Yes	No	No					
HVAC Supply Grill	ls Yes	No	No					
HVAC Return Grill	s Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	Yes	No	No					

Observations

Findings:

- A/C was off at the time of the assessment

- Elevated moisture in West wall under A/C shaker unit and South wall under whiteboard. South wall also shows signs of bubbling paint.

Recommendations:

Site Based Maintenance:

- Ensure that A/C remains on during occupied hours

- 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 elevated moisture content in West wall under A/C shaker unit and South wall under whiteboard and bubbling paint on South wall and repair as appropriate. Repair/replace wall material as necessary.

Previous assessment done March 2008