

managing risk with responsibility

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May 2, 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 FISH 162 and Portable 927C				

Fo	r Custodial Supervisor Use Only
	Custodial Issues Addressed
	Custodial Issues Not Addressed

On March 26, 2008 I conducted an assessment of FISH 162 and Portable 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 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.

			IAQ As:	sessment	Locati	on Number	2121	
		Rickards Middl	e School		Evaluat	tion Requested	March	17, 2008
Time of Day	11:00 am				l	Evaluation Date	March	26, 2008
Outdoor Condi	tions Ten	nperature 7	79.4	Relative Hum	idity 43.7	Ambie	nt CO2	450
Fish	Temperature	Range Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants
162	75.4 7	/2 - 78	47.7	30% - 60%	672	Max 700	> Ambient	2
Noticeable Od	or No		/isible water nage / staining		microbial wth?	Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay	In	Νο	N	lo		None	
Wall Type	Drywall/Pla	ster	No	N	lo		None	
Flooring	Vinyl Tile	:	No	N	lo		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	quired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills No	Yes	Yes		Cle	an as appropria	ate	
Ceiling at Sup Grills	ply No	Yes	Yes		Cle	an as appropria	ate	
Surfaces in Ro	oom No	Yes	Yes		Cle	an as appropria	ate	

Observations

Findings:

- No signs of water intrusion or microbial growth
- Dust build up inside HVAC return grills
- Dust on ceiling tile at HVAC supply grills
- Heavy dust build up on environmental surfaces. Room is cluttered with excessive amounts of items and paper.
- FISH 225 (AHU) Dust and debris on coils and drain pan

Recommendations:

Site Based Maintenance:

- Clean ceiling at HVAC supply grills

- Thoroughly clean environmental surfaces throughout the room. Encourage occupant to reduce clutter to assist with cleaning efforts

- 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 inside HVAC return grills

- Clean drain pan and coils - **FISH 225**

		IAQ As	sessment	Location Number	2121
	Rickards	Middle School		Evaluation Requested	March 17, 2008
Time of Day 11	:00 am			Evaluation Date	March 26, 2008
Outdoor Conditions	Temperature	9 79.4	Relative Humidity	43.7 Ambie	ent CO2 450
Fish Tempe	erature Range	Relative Humidity	Range	CO2 Rar	nge # Occupants
P-927C 7	'3.7 72 - 78	48.5	30% - 60%	1628 Max 700	> Ambient 2
Noticeable Odor	No	Visible water damage / staining	Visible micro g? growth?	bial Amount of ma affected	terial
Ceiling Type	2 x 4 Lay In	Yes	No	4 c	eiling tiles
Wall Type	Tackable	Yes	No	W	/est wall
Flooring	12 x 12 Vinyl	No	No		None
	Clean Minor / Deb		I	Corrective Action Re	equired
Ceiling	No	s Yes	Re	emove and replace ce	iling tiles
Walls	No	s Yes		Repair wall mater	ial
Flooring	Yes	No			
HVAC Supply Grills	Yes	No			
HVAC Return Grills	Yes	No			
Ceiling at Supply Grills	No	s Yes	R	emove and replace ce	iling tiles
Surfaces in Room	Yes	No			

Observations

Findings:

- 4 stained ceiling tiles (2 above each A/C unit)
- Damage on West wall under A/C shaker unit
- Dust on ceiling tile at HVAC supply grills
- Dust and debris on A/C filters
- Non-approved chemicals in room (air fresheners and sprays)

Recommendations:

Site Based Maintenance:

- Remove and replace ceiling tiles above A/C units
- Remove and replace A/C filters
- Remove non-approved chemicals (air fresheners and sprays)

- 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 West wall under A/C unit for cause of damage/staining and repair as appropriate. Repair/replace wall material.