

managing risk with responsibility

	ment Department	Fax: 754 321-1917
June 3, 2010	Signature on File	For Custodial Supervisor Use Only
TO:	Mr. Ronald Forsman, Principal Rickards Middle School	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Edward See, Project Manager Risk Management Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On May 27, 2010, I conducted an assessment of Portable 277CX and 278CX 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. In an attempt to separate IAQ issues from general maintenance items, the attached assessment may contain direction for site based staff to generate a work order through COMPASS. 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 754-321-1900.

cc: Sharon Airaghi, Area Superintendent

David Hall, Area Director

Jeffrey S. Moquin, Executive Director, Support Operations

Mark Dorsett, Acting Director, Physical Plant Operations Division, Maintenance

Aston Henry, Supervisor, Risk Management

Portable 277CX and 278CX

Robert Goode, Project Manager, Facilities and Construction Management

Dane Ramson, Broward Teachers Union

Roy Jarrett, Federation of Public Employees

Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

ES/tc Enc.

IAQ Assessment **Location Number Evaluation Requested** Rickards Middle School May 11, 2010 **Evaluation Date** May 27, 2010 Time of Day 2:30 pm **Outdoor Conditions Temperature** 86.1 59.2 **Relative Humidity Ambient CO2** 395 Fish **Temperature** CO₂ Range **Relative Humidity** # Occupants Range Range P-277CX 71.2 51.5 444 2 72 - 78 Max 700 > Ambient 30% - 60% Visible water Visible microbial Amount of **Noticeable Odor** No damage / staining? growth? material affected 2 x 4 Lay In None **Ceiling Type** No No **Wall Type** None Homasote No No **Flooring** 12 x 12 Vinyl No None No **Needs** Clean **Minor Dust Corrective Action Required** Cleaning / Debris Yes No No Ceiling Walls Yes No No Yes No No **Flooring** HVAC Supply Grills | Yes | No No HVAC Return Grills | Yes | No No **Ceiling at Supply** Yes No No **Grills Surfaces in Room** Yes No No **Observations Findings** Wood door rotted at bottom Both A/C shaker units were on and portable was unoccupied Site Based Maintenance: Contact COMPASS to generate a work order to repair/replace door due to rotting Ensure that only one of the A/C shaker units remains on when portable is unoccupied Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

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		Rickards M	liddle School		Evaluati	ion Requested	May 11, 2010
Time of Day	2:30 pm				E	Evaluation Date	May 27, 2010
Outdoor Condi	itions Te	emperature	86.1	Relative Humidit	y 59.2	. Ambie	nt CO2 395
Fish P-278CX	Temperature 76.1	Range 72 - 78	Relative Humidity	Range	CO2 425	Ran Max 700	nge # Occupants
Noticeable Od	lor No		Visible water damage / staining	Visible micr		Amount o	f
Ceiling Type	2 x 4 La	ay In	Yes	No		2 c	eiling tiles
Wall Type	Homas	sote	Yes	No		@ Sout	th A/C Shaker
Flooring	12 x 12	Vinyl	No	No			None
	Clean	Minor Du / Debri		l	Correc	ctive Action Re	equired
Ceiling	No	Yes	Yes		Eva	aluate and rep	air
Walls	No	Yes	Yes		Eva	aluate and rep	air
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 Ro	oom No	Yes	Yes		Clea	an as appropri	ate

IAQ Assessment

2121

Location Number

Observations

Findings

- 2 stained ceiling tiles
- Elevated moisture content in wall under South A/C shaker unit
- Dust build up on environmental surfaces
- A/C shakers units were not on

Site Based Maintenance:

- Thoroughly clean surfaces throughout the room
- Ensure that at least one of the A/C shaker units remains on when portable is unoccupied
- 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 tiles and repair as appropriate. Remove and replace stained ceiling tiles as necessary.
- Evaluate cause of elevated moisture content in wall under South A/C shaker unit. Repair/replace wall material as necessary.