

## managing risk with responsibility

Aston A. Henry, Supervisor Risk Management Department Telephone:754 321-1900Fax:754 321-1917

January 31, 201	3 Signature on File	
	0	For Custodial Supervisor Use Only
TO:	Haleh Darbar, Principal	Custodial Issues Addressed
	Everglades High School	Custodial Issues Not Addressed
FROM:	Richard Rosa, Project Manager Facilities Design and Construction	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On January 28, 2013, I conducted an assessment at **Everglades High School**. Attached are findings and recommendations for further assessment, remediation, or corrective actions needed.

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 site based custodial 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 us at 754-321-1907.

cc: Directors, School Performance & Accountability Shelley Meloni, Executive Director, Facilities Design and Construction Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division Roy Norton, Manager, Custodial/Grounds, Physical Plant Operations Division Aston Henry, Supervisor, Risk Management Sonja Coley, Senior Project Manager, Facilities Design and Construction Broward Teachers Union Federation of Public Employees

RR/tc Enc.

IAQ Assessment				
Everglades High Evaluation Date January 28, 2013 Time of Day	10:00			
Outdoor Conditions         Temperature         77.5         Relative Humidity         57.7         Ambient CO2	416			
FishTemperatureRangeRelative HumidityRangeCO2Range35869.672 - 7856.130% - 60%607MAX 700 > Ambient	# Occupants			
Noticeable Odor         No         Visible water damage / staining?         Visible microbial         Amount of material affect				
Ceiling     2' x 4'     No       Walls     Plaster / Drywall     Yes       Stars     40" x 40" ) (inclusion	<u> </u>			
Ceiling Clean     No     HVAC Supply Grills Clean     No     HVAC Return Grills Clean       Walls Clean     No     Grills Clean     Grills Clean	No			
Walls Clean     NO     Inside of Supply     Yes     Inside of Return       Flooring Clean     Yes     Duct Clean     Duct Clean	urn Yes			
Room Surfaces     No     Ceiling at Supply Grills Clean     No				
Trash Removed Yes Exhaust Fans Working N/A Unapproved Chemic Cleaners in Room	cals / No			
Signs of Pests     No     Drain Traps Wet     N/A       Beem Cluttered     No     Food if Stored in Room is     Air Fresheners	No			
Room Cluttered     NO     Food if Stored in Room is     N/A     in Room				
Mechanical Equipment Location FISH 355 Mechanical Room C	lean Yes			
Filters Installed Properly     Yes     Filters Clean     Yes     Inside of HVAC Unit C	lean Yes			
Condensate Pan Clean Yes Cooling Coil Clean Yes				
Fresh Air Intake Location Roof top ▼ Fresh Air Intake For Obstruction	Free Yes			
Pollutant Sources Near Air Intake				
Observations				
Water damage is located adjacent to right window. The filters are installed properly but the dates are missing.				
The control starter for the HVAC unit was in by-pass, HFSP switched it back to Auto.				

Corrective Actions to be Completed by Site Based Staff

Thoroughly clean elevated surfaces	▼
Clean ceilings around HVAC supply grills	▼
Clean HVAC supply grills with Wexcide	▼
Vacuum/wipe HVAC return grill	▼
Ensure A/C filters are properly dated	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

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Set temperature to 72 - 78 degrees	▼
	▼
Evaluate and repair cause of water damage	▼
Remove and replace wall material as necessary	▼
	▼
See observations for additional information	▼
	▼
	▼

	IAQ Assessr	nent		
Everg	lades High Evaluation Date	<b>e</b> January 28, 2013	Time of Day 1	0:45
Outdoor Conditions Temperat	ture 77.5 Relative	Humidity 57.7	Ambient CO2 4	16
FishTemperatureRar37671.172 -		Range         CO <sup>2</sup> % - 60%         911	Range # Oo MAX 700 > Ambient	ccupants
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' x 4'	No	No		
Walls Plaster / Drywall	Yes	No	< 2 sq ft	
Floor 12" x 12" Vinyl	No	No		
Ceiling Clean No	HVAC Supply Grills Clean	Νο	HVAC Return Grills Clean	No
Flooring Clean Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean	Yes
Room Surfaces No Clean	Ceiling at Supply Grills Clean	Νο		
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No	Drain Traps Wet	N/A	Air Fresheners	No
Room Cluttered Yes	Food if Stored in Room is in Sealed Containers	N/A	in Room	
Mechanical Equipment Location	FISH 373		Mechanical Room Clean	Yes
Filters Installed Properly Yes	] Filters Clean	Yes	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes	Cooling Coil Clean	Yes		_
Fresh Air Intake Location	Roof top	▼	Fresh Air Intake Free	Yes
Pollutant Sources Near Air Intake	No	▼	of Obstruction	
Observations				
Water damage is located adjacen There are cardboard boxes store the cabinets should be in plastic	d on top of cabinetry. The cont	tents of the cardboard	boxes that are stored on	top of
The filters are installed properly I	out the dates are missing.			

Corrective Actions to be Completed by Site Based Staff

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## Corrective Actions to be Completed by PPO

Repair HVAC to reduce humidity level	▼
	▼
Evaluate and repair cause of water damage	▼
Remove and replace wall material as necessary	▼
	▼
See observations for additional information	▼
	▼
	▼

IAQ Assessment				
Everglades	s High Evaluation Dat	te January 28, 2013	Time of Day 1	1:15
Outdoor Conditions Temperature	77.5 Relative	e Humidity 57.7	Ambient CO2 4	16
Fish         Temperature         Range           378         71.2         72 - 78		Range         CO <sup>2</sup> % - 60%         968		ccupants
Noticeable OdorNoCeiling2' x 4'WallsPlaster / Drywall	Visible water damage / staining? No Yes	Visible microbial growth? No No	Amount of material affected < 2 sq ft	
Floor 12" x 12" Vinyl Ceiling Clean Yes	No HVAC Supply	No	HVAC Return	
YesWalls CleanNoFlooring CleanYesRoom SurfacesNo	Grills Clean Inside of Supply Duct Clean Ceiling at Supply	No Yes Yes	Grills Clean Inside of Return Duct Clean	No Yes
Clean Trash Removed Yes Signs of Pests No	Grills Clean Exhaust Fans Working Drain Traps Wet	N/A	Unapproved Chemicals / Cleaners in Room	No
Room Cluttered No	Food if Stored in Room is in Sealed Containers	N/A	Air Fresheners in Room	No
Mechanical Equipment Location FIS	H 373		Mechanical Room Clean	Yes
Filters Installed Properly       Yes         Condensate Pan Clean       Yes	Filters Clean Cooling Coil Clean	Yes Yes	Inside of HVAC Unit Clean	Yes
Pollutant Sources Near Air No	of top	<ul><li>▼</li></ul>	Fresh Air Intake Free of Obstruction	Yes
Observations Minor water damage is located above	windows. The filters are i	installed properly but	the dates are missing.	

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

Repair HVAC to reduce humidity level	▼
	▼
Evaluate and repair cause of water damage	▼
Remove and replace wall material as necessary	▼
	▼
See observations for additional information	▼
	▼
	▼