

Aston A. Henry, Task Assigned Director

managing risk with responsibility

754 321-1900

Telephone:

Risk Managem	ent Department	Fax:	754 321-1917
April 22, 2013	Signature on File	For Custodia	l Supervisor Use Only
TO:	Wendy Doll, Principal Cooper City High School		Issues Addressed Issues Not Addressed
FROM:	Richard Rosa, Project Manager Facilities Design and Construction		-
SUBJECT:	Indoor Air Quality (IAQ) Assessment		

On March 25, 2013, I conducted an assessment at **Cooper City 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, Task Assigned Chief Facilities & Construction Officer, Facilities & Construction
Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division
Roy Norton, Manager, Custodial/Grounds, Physical Plant Operations Division
Aston Henry, Task Assigned Director, Risk Management
Sonja Coley, Senior Project Manager, Facilities Design and Construction
Broward Teachers Union
Federation of Public Employees

RR/tc Enc.

Cooper Cit	y High Evaluation Dat	March 25, 2013	Time of Day11:00
Outdoor Conditions Temperature	77.3 Relative	e Humidity 69.2	Ambient CO2 414
Fish Temperature Range 238 69.8 72 - 78	00.4	Range CO ² 414	Range # Occupants MAX 700 > Ambient
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected
Ceiling 2' x 4'	Yes	No	< 3 sq ft
Walls Drywall	Yes	No	< 2 sq ft baseboard
Floor 12" x 12" Vinyl	No	No	
Ceiling Clean No Walls Clean Yes Flooring Clean Yes	HVAC Supply Grills Clean Inside of Supply Duct Clean	No Yes	HVAC Return Grills Clean Inside of Return Duct Clean Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No	Duct Clean
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room
Signs of Pests No	Drain Traps Wet	N/A	
Room Cluttered No	Food if Stored in Room is in Sealed Containers	N/A	Air Fresheners No in Room
Mechanical Equipment Location Roo	f Top		Mechanical Room Clean N/A
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean Yes
Condensate Pan Clean Yes	Cooling Coil Clean	Yes	
	f top	▼	Fresh Air Intake Free of Obstruction
Pollutant Sources Near Air Intake		▼	
Observations			

The HFSP states that there is puddling of water on the floor adjacent to the West wall, between cabinetry and the North exit door. This seems to be happening when it's raining. Possible roof leak, however, on the opposite side of the wall, there is a classroom with wall cabinetry with sinks, evaluate the plumbing in the cabinetry for leaks. See Jamie (HFSP) for exact locations. The ceiling stains are adjacent to the South wall of the classroom.

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

Controller to be completed by 1.1.C	
Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage	▼
Remove and replace material as necessary	▼
PPO Plumbers evaluate leaks in cabinetry	▼
Roofers evaluate for possible leaks	▼
Repair HVAC to reduce humidity level	▼
Set temperature to 72 - 78 degrees	▼
	▼

Cooper	City High Evaluation Date	March 25, 2013	Time of Day 10:00
Outdoor Conditions Temperatu	ure 77.3 Relative	Humidity 69.2	Ambient CO2 414
Fish Temperature Range 263 70.3 72 - 72		Range <u>CO²</u> % - 60%	Range # Occupants MAX 700 > Ambient
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected
Ceiling 2' x 2'	Yes	No	10 ceiling stains
Walls Plaster	Yes	No	< 15 sq ft
Floor 12" x 12" Vinyl	No	No	
Ceiling Clean No Walls Clean No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean
Flooring Clean Yes	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean N/A
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No	
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room
Signs of Pests No Room Cluttered No	Drain Traps Wet Food if Stored in Room is in Sealed Containers	N/A	Air Fresheners No in Room
Mechanical Equipment Location	Roof Top		Mechanical Room Clean N/A
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean Yes
Condensate Pan Clean Yes	Cooling Coil Clean	Yes	
Pollutant Sources Near Air	Roof top	▼	Fresh Air Intake Free of Obstruction
intake			
Observations The East wall, south of the double	doore has water damaged w	vall board. Also the Nor	th wall in 263C & 262D has water
damaged wall surfaces. Custodiar HVAC units.			

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

Corrective Actions to be completed by 11 C	
Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage	▼
Remove and replace wall material as necessary	▼
Repair HVAC to reduce humidity level	▼
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Cooper City High Eva	valuation Date March 25, 2013 Time of Day 10:30
Outdoor Conditions Temperature 77.3	Relative Humidity 69.2 Ambient CO2 414
Fish Temperature Range Relative Hu 264 70.7 72 - 78 56.2	
Noticeable Odor No Visible water d	u o motorial effected
Ceiling 2' x 2' Yes	No 11 ceiling stains
Walls Drywall No	No
Floor 12" x 12" Vinyl No	No
Ceiling Clean No HVAC S Grills C	
Flooring Clean Yes Inside C	of Supply Inside of Return Duct Clean Yes
Room Surfaces Yes Ceiling Clean Grills C	g at Supply Clean No
Trash Removed Yes Exhaust Fans	ns Working Yes Unapproved Chemicals / Cleaners in Room No
Signs of Pests No Drain Room Cluttered No Food if Stored in	Traps Wet N/A Air Fresheners No in Room
in Sealed Conta	
Mechanical Equipment Location Roof Top	Mechanical Room Clean N/A
	ters Clean Yes Inside of HVAC Unit Clean Yes
Condensate Pan Clean Yes Cooling C	Coil Clean Yes
Fresh Air Intake Location Roof top	▼ Fresh Air Intake Free of Obstruction Yes
Pollutant Sources Near Air Intake	▼
Observations	
The ceiling stains are located by the West door and o	one in the restroom.
Corrective Actions to be Completed by Site Based S	Staff Corrective Actions to be Completed by PPO
Replace stained ceiling tiles after repairs	▼ Evaluate and repair cause of stained ceiling tiles ▼
Clean HVAC supply grills with Wexcide	
Clean ceilings around HVAC supply grills	
	
	

Coope	r City High Evaluation Dat	March 25, 2013	Time of Day 11:30
Outdoor Conditions Temperat	cure 77.3 Relative	e Humidity 69.2	Ambient CO2 414
Fish Temperature Rar 266 69.0 72 -		Range CO ² 408	Range # Occupants MAX 700 > Ambient
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected
Ceiling 2' x 2'	Yes	No	various ceiling stains
Walls Plaster / Drywall	Yes	No	< 2 sq ft
Floor 12" x 12" Vinyl	No	No	
Ceiling Clean No Walls Clean No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean
Walls Clean No Flooring Clean Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No	
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room
Signs of Pests Yes Room Cluttered No	Drain Traps Wet Food if Stored in Room is in Sealed Containers	No N/A	Air Fresheners No in Room
Mechanical Equipment Location	Roof Top		Mechanical Room Clean N/A
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 of Obstruction Yes
Pollutant Sources Near Air Intake	No	▼	or obstruction
Observations			
The ceiling stains are located adj located above the cabinetry adjac home economics classroom/kitch	cent to the West wall. Insect tr		

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after repairs	▼
Clean HVAC supply grills with Wexcide	▼
Clean ceilings around HVAC supply grills	▼
Vacuum/wipe HVAC return grill	▼
Ensure water is poured down drains regularly	
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	▼
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Corrective Actions to be Completed by PPO

Corrective Actions to be completed by 1.1.C	
Evaluate and repair cause of stained ceiling tiles	▼
Set temperature to 72 - 78 degrees	▼
Repair HVAC to reduce humidity level	▼
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	▼
	▼
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