

Aston A. Henry, Director
Risk Management Department

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October 21, 2014

Signature on File

TO: Trevor Roberts, Principal
Sawgrass Elementary School

FROM: Richard Rosa, Project Manager
Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

<u>For Custodial Supervisor Use Only</u>	
<input type="checkbox"/>	Custodial Issues Addressed
<input type="checkbox"/>	Custodial Issues Not Addressed

On October 20, 2014, I conducted an assessment at **Sawgrass Elementary 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: Shelley Meloni, Executive Director, Facilities & Construction
Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division
Roy Norton, Manager, Custodial/Grounds, Physical Plant Operations Division
Aston Henry, Director, Risk Management
Sonja Coley, Senior Project Manager, Facilities & Construction
Broward Teachers Union
Federation of Public Employees

RR/tc
Enc.

IAQ Assessment

Sawgrass Elementary

Evaluation Date October 20, 2014

Time of Day 11:30

Outdoor Conditions Temperature 88.8 Relative Humidity 42.8 Ambient CO2 411

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
860	74.1	72 - 78	48.3	30% - 60%	1363	MAX 700 > Ambient	25
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Ceiling		Walls		Floor			
No		Yes		No		1 tile < 6 sq inches	
2' X 4' Lay in		No		No			
Drywall		No		No			
12" x 12" Vinyl		No		No			

Ceiling Clean	Yes	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean	No
Walls Clean	Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	Yes	Exhaust Fans Working	No	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	Yes	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	In classroom HVAC unit		Mechanical Room Clean	N/A	
Filters Installed Properly	N/A	Filters Clean	N/A	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Thru exterior wall	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Condensate drain runoff		

Observations

Outside this classroom in the corridor is an active ceiling stain, the leak appears to be from a condensate pan above the drop ceiling. Recommend to evaluate blowing out the drain line. Ceiling tile stain in classroom is the size of a tea cup. Bug droppings are visible on the wall adjacent to the HVAC unit. Viewing the inside of the HVAC unit is not readily accessible. Adjusted the Humidistat to 50 %.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after repairs	▼
Thoroughly clean horizontal surfaces	▼
Vacuum/wipe return grill	▼
Monitor insects by HVAC unit and treat if necessary	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Repair HVAC to reduce humidity level	▼
	▼
	▼
See observations for additional information	▼
	▼
	▼
	▼

IAQ Assessment

Sawgrass Elementary

Evaluation Date October 20, 2014

Time of Day 1:15

Outdoor Conditions Temperature 88.8 Relative Humidity 42.8 Ambient CO2 411

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
880	73.5	72 - 78	53.1	30% - 60%	693	MAX 700 > Ambient	26
Noticeable Odor		Visible water damage / staining?		Visible microbial growth?		Amount of material affected	
Ceiling		Walls		Floor			
No		Yes		No		5 ceiling stains	
2' X 4' Lay in		No		No			
Drywall		No		No			
12" x 12" Vinyl		No		No			

Ceiling Clean	<input type="checkbox"/> No	HVAC Supply Grills Clean	<input type="checkbox"/> Yes	HVAC Return Grills Clean	<input type="checkbox"/> No
Walls Clean	<input type="checkbox"/> Yes	Inside of Supply Duct Clean	<input type="checkbox"/> Yes	Inside of Return Duct Clean	<input type="checkbox"/> N/A
Flooring Clean	<input type="checkbox"/> Yes	Ceiling at Supply Grills Clean	<input type="checkbox"/> Yes		
Room Surfaces Clean	<input type="checkbox"/> No				

Trash Removed	<input type="checkbox"/> Yes	Exhaust Fans Working	<input type="checkbox"/> N/A	Unapproved Chemicals / Cleaners in Room	<input type="checkbox"/> No
Signs of Pests	<input type="checkbox"/> No	Drain Traps Wet	<input type="checkbox"/> N/A	Air Fresheners in Room	<input type="checkbox"/> No
Room Cluttered	<input type="checkbox"/> No	Food if Stored in Room is in Sealed Containers	<input type="checkbox"/> N/A		

Mechanical Equipment Location	In classroom HVAC unit	Mechanical Room Clean	<input type="checkbox"/> N/A
Filters Installed Properly	<input type="checkbox"/> N/A	Filters Clean	<input type="checkbox"/> N/A
Condensate Pan Clean	<input type="checkbox"/> N/A	Cooling Coil Clean	<input type="checkbox"/> N/A
		Inside of HVAC Unit Clean	<input type="checkbox"/> N/A

Fresh Air Intake Location	Thru exterior wall	Fresh Air Intake Free of Obstruction	<input type="checkbox"/> Yes
Pollutant Sources Near Air Intake	Condensate drain runoff		

Observations

Viewing the inside of the HVAC unit is not readily accessible. Evaluate and repair roofing and also evaluate the fire sprinkler system for possible leaks. Also outside the classroom in the corridor there is an active leak, once again it could be from the condensate pan, evaluate blowing out the drain line.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after repairs	▼
Thoroughly clean horizontal surfaces	▼
Vacuum/wipe return grill	▼
	▼
	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
	▼
	▼
	▼
	▼
	▼
See observations for additional information	▼
	▼
	▼

