

Aston A. Henry, Director
Risk Management Department

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August 27, 2014 **Signature on File**

TO: Horace Hamm, Principal
 McNicol Middle 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 August 19, 2014, I conducted an assessment at **McNicol Middle 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

McNicol Middle

Evaluation Date August 19, 2014

Time of Day 12:00

Outdoor Conditions Temperature 88.8

Relative Humidity 65.9

Ambient CO2 433

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
141	71.7	72 - 78	61.7	30% - 60%	745	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' X 4' Lay in		No		No		
Walls	Drywall		No		No		
Floor	12" x 12" Vinyl		No		No		
Ceiling Clean	Yes	HVAC Supply Grills Clean		Yes	HVAC Return Grills Clean		Yes
Walls Clean	Yes	Inside of Supply Duct Clean		Yes	Inside of Return Duct Clean		Yes
Flooring Clean	Yes	Ceiling at Supply Grills Clean		No			
Room Surfaces Clean	Yes						
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 in Room		No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers		N/A			
Mechanical Equipment Location	Fish 139 AHU 1-22					Mechanical Room Clean	Yes
Filters Installed Properly	Yes	Filters Clean		No	Inside of HVAC Unit Clean		No
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 ▼						

Observations

Remove construction paper from walls and tackboard surfaces; the paper is retaining excessive moisture. In the mechanical room F-139, I also checked air handler unit 1-9 and the unit needs a filter spacer.

Corrective Actions to be Completed by Site Based Staff

Clean ceilings around HVAC supply grills	▼
Install proper filters, tape and date.	▼
Remove construction paper from walls and tackboard surfaces	▼
	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Clean inside the HVAC - debris	▼
Repair HVAC to reduce humidity level	▼
Install filter spacer in AHU 1-9	▼
	▼
	▼
	▼
	▼

IAQ Assessment

McNicol Middle

Evaluation Date

Time of Day

Outdoor Conditions Temperature

Relative Humidity

Ambient CO2

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
<input type="text" value="301"/>	<input type="text" value="71.4"/>	<input type="text" value="72 - 78"/>	<input type="text" value="47.2"/>	<input type="text" value="30% - 60%"/>	<input type="text" value="544"/>	<input type="text" value="MAX 700 > Ambient"/>	<input type="text"/>
Noticeable Odor		<input type="text" value="No"/>	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	<input type="text" value="2' X 4' Lay in"/>		<input type="text" value="No"/>		<input type="text" value="No"/>		<input type="text"/>
Walls	<input type="text" value="Plaster"/>		<input type="text" value="No"/>		<input type="text" value="No"/>		<input type="text"/>
Floor	<input 12"="" type="text" value="12" vinyl"="" x=""/>		<input type="text" value="No"/>		<input type="text" value="No"/>		<input type="text"/>

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

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

Mechanical Equipment Location	<input type="text" value="FISH 313 AHU 2-3"/>			Mechanical Room Clean	<input type="text" value="Yes"/>
Filters Installed Properly	<input type="text" value="Yes"/>	Filters Clean	<input type="text" value="Yes"/>	Inside of HVAC Unit Clean	<input type="text" value="Yes"/>
Condensate Pan Clean	<input type="text" value="Yes"/>	Cooling Coil Clean	<input type="text" value="Yes"/>		

Fresh Air Intake Location	<input type="text" value="Roof top"/>	Fresh Air Intake Free of Obstruction	<input type="text" value="Yes"/>
Pollutant Sources Near Air Intake	<input type="text" value="No"/>		

Observations

F-301 is the auditorium. Due to the ceiling height, a genie high lift is needed. PPO maintenance may need to assist with high lift. HFSP to contact PPO for proper genie lift as needed.

Corrective Actions to be Completed by Site Based Staff

Vacuum/wipe return grills	▼
	▼
	▼
	▼
	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Assist with change out of ceiling tiles adjacent to HVAC supply grills in FISH 301	▼
	▼
	▼
	▼
See observations for additional information	▼
	▼
	▼
	▼

IAQ Assessment

McNicol Middle

Evaluation Date August 19, 2014

Time of Day 12:00

Outdoor Conditions Temperature 88.8

Relative Humidity 65.9

Ambient CO2 433

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
315	73.2	72 - 78	39.3	30% - 60%	712	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' X 4' Lay in		No		No		
Walls	Plaster		No		No		
Floor	Carpet		No		No		
Ceiling Clean	No	HVAC Supply Grills Clean		No	HVAC Return Grills Clean		No
Walls Clean	Yes	Inside of Supply Duct Clean		Yes	Inside of Return Duct Clean		Yes
Flooring Clean	Yes	Ceiling at Supply Grills Clean		No			
Room Surfaces Clean	Yes						
Trash Removed	N/A	Exhaust Fans Working		N/A	Unapproved Chemicals / Cleaners in Room		No
Signs of Pests	No	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	FISH 313 AHU 2-4					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 of Obstruction	Yes
Pollutant Sources Near Air Intake	No ▼						

Observations

F-315 is the band room. Due to the ceiling height, a genie high lift is needed. Change out all dirty ceiling tiles adjacent to the supply grills. PPO maintenance may need to assist with high lift. HFSP to contact PPO for proper genie lift as needed. Though F-314 was not on the IAQ list, replace the ceiling tiles adjacent to HVAC supply grills.

Corrective Actions to be Completed by Site Based Staff

Clean HVAC supply and return grills with Wexcide	▼
	▼
	▼
	▼
	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Assist with change out of ceiling tiles adjacent to HVAC supply grills in FISH 314 and 315	▼
	▼
	▼
	▼
	▼
	▼
	▼
	▼
	▼
See observations for additional information	▼
	▼
	▼

