

## managing risk with responsibility

Aston A. Henry, Supervisor	
Risk Management Departmen	t

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754 321-1917

September 1	1, 2012 Signature on File	For Custodial Supervisor Use Only
TO:	Jeanette Johnson, Principal McFatter Technical Center	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Richard Rosa, Project Manager Facilities Design and Construction	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On August 30, 2012, I conducted an assessment at Broward Fire Academy. 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.

Directors, School Performance & Accountability cc: 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 Assessi	ment		
Broward Fi	ire Academy Evaluation Dat	e August 30, 2012	Time of Day 1	0:30
Outdoor Conditions Temper	ature 86.7 Relative	e Humidity 71	Ambient CO2 4	14
		Range         CO <sup>2</sup> % - 60%         970		ccupants
Noticeable OdorNoCeiling2' x 4'WallsDrywallFloor12" x 12" Vinyl	Visible water damage / staining? Yes No No	Visible microbial growth? No No No	Amount of material affected various < 4 sq ft	
Ceiling CleanNoWalls CleanNoFlooring CleanNoRoom Surfaces CleanNo	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	No No	HVAC Return Grills Clean Inside of Return Duct Clean	No
Trash RemovedNoSigns of PestsYesRoom ClutteredYes	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers	N/A N/A N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No
Mechanical Equipment Location Filters Installed Properly No Condensate Pan Clean No		No	Mechanical Room Clean Inside of HVAC Unit Clean	N/A N/A
Fresh Air Intake Location Pollutant Sources Near Air Intake	Window unit Grass and landscape	▼ ▼	Fresh Air Intake Free of Obstruction	Yes
Observations				

Check roof for leaks. Replace ceiling tiles once repairs have been made. The ceiling light fixtures had condensation on inside of lens cover. Personnel state that both HVAC window units are left on during the week and turned off on weekends, thus supper cooling and warming the room and condensing on all surfaces. Clean both window unit HVAC coils. Clean the HVAC grill with wexcide and change filters per SBBC policy. Set temperature between SBBC Range and monitor.

Corrective Actions to be Completed by Site Based Staff

▼	Open light fixtures and dry
▼	The floor is due for summer cleaning
▼	Room is due for a summer cleaning
I <b>V</b>	Generate a work order for pest control
▼	Monitor temperature in portable
rs 🔻	Replace stained ceiling tiles after repairs
•	
▼	

## Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Clean both window unit coils	▼
Evaluate the need for new door threshholds	▼
	▼
	▼
	▼
	▼
	▼

		ssessment		
Browa	ard Fire Academy Evalua	tion Date August 30, 2	2012 Time of Day	10:30
Outdoor Conditions Ter	mperature 86.7 I	Relative Humidity	71 Ambient CO2	414
FishTemperatureP-723C73.6	RangeRelative Humid72 - 7851.1	lity Range 30% - 60%	CO2Range462MAX 700 >Ambient	# Occupants
Noticeable OdorNoCeiling2' x 4'WallsTack BoardFloor12" x 12" Vinyl		age / Visible microk growth? Yes No No	bial Amount of material affect various < 6 No stains bu	sq ft
Ceiling CleanNoWalls CleanNoFlooring CleanNoRoom SurfacesNoCleanNo	HVAC Supp Grills Clear Inside of Su Duct Clean Ceiling at S Grills Clear	upply No	HVAC Return Grills Clean Inside of Retu Duct Clean	No
Trash RemovedNoSigns of PestsYesRoom ClutteredYes	Exhaust Fans We Drain Trap Food if Stored in R in Sealed Containe	oom is	Unapproved Chemic Cleaners in Room Air Fresheners in Room	als / No No
Mechanical Equipment Loca Filters Installed Properly Condensate Pan Clean	ation Window unit No Filters No Cooling Coil		Mechanical Room Cl	
Fresh Air Intake Location Pollutant Sources Near Air Intake	Window unit Grass and landscape		<ul><li>▼ Fresh Air Intake F of Obstruction</li></ul>	ree Yes

## Observations

Tack board is wet on East, West and South walls of portable. Remove tack board and replace per SBBC specs. Evaluate the exterior siding for water intrusion. Check roof for leaks. Replace ceiling tiles once repairs have been made. The ceiling light fixtures had condensation on inside of lens cover. Personnel states that both HVAC window units are left on during the week and turned off on weekends, thus super cooling and warming the room and condensing on all surfaces. Clean both HVAC coils. Clean the HVAC grill with wexcide and change filters per SBBC policy. I instructed site personnel to remove and bag stained ceiling tiles before entering into classroom.

Corrective Actions to be Completed by Site Based Staff

Open light fixtures and dry	▼
The floor is due for summer cleaning	▼
Room is due for a summer cleaning	▼
Generate a work order for pest control	▼
Replace stained ceiling tiles after repairs	▼
	▼
	▼
	▼
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**Corrective Actions to be Completed by PPO** 

Evaluate and repair cause of stained ceiling tiles	▼
Clean both window unit coils	▼
Evaluate and repair cause of water damage	▼
Remove and replace wall material as necessary	▼
Evaluate the need for new door threshholds	▼
	▼
	▼
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	IAQ A	Assessment		
Browa	ard Fire Academy Evalu	ation Date August	30, 2012 Time of D	<b>ay</b> 10:30
Outdoor Conditions Te	mperature 86.7	Relative Humidity	71 Ambient	CO2 414
FishTemperatureP-724C81.8	RangeRelative Hum72 - 7863.1	idity Range 30% - 60%	CO2Rang483MAX 70Ambie	00 > 00
Noticeable OdorNoCeiling2' x 4'WallsTack BoardFloor12" x 12" Viny		nage / Visible m grow No No No	with?   materia     o   variou     o   No sta	unt of I affected us < 4 sq ft ins but wet
Ceiling CleanNoWalls CleanNoFlooring CleanNoRoom SurfacesNoCleanNo	HVAC Su Grills Clea Inside of Duct Clea Ceiling at Grills Clea	NO Supply NO Supply	HVAC   Grills C Inside o Duct C	of Return
Trash RemovedNoSigns of PestsYesRoom ClutteredYes	Exhaust Fans W Drain Tra Food if Stored in in Sealed Contair	aps Wet N/A	Unapproved C Cleaners in Ro Air Freshene in Room	oom No
Mechanical Equipment Loca Filters Installed Properly Condensate Pan Clean		s Clean No il Clean No	Mechanical Ro	
Fresh Air Intake Location Pollutant Sources Near Air Intake	Window unit Grass and landscape		▼ Fresh Air In of Obstruct	Voc

## Observations

Tack board is wet throughout portable. Remove all tack board and replace per SBBC specification. Evaluate the exterior siding for water intrusion. Check roof for leaks. Replace ceiling tiles once repairs have been made. Though the temperature was warm at the time of assessment, the ceiling light fixtures had condensation on inside of lens cover. Personnel state that both HVAC window units are left on during the week and turned off on weekends, thus supper cooling and warming the room and condensing on all surfaces. Clean both HVAC coils. Clean the HVAC grill with wexcide and change filters per SBBC policy. Cluttered EMT storage portable.

Corrective Actions to be Completed by Site Based Staff

tures and dry	Open light fixt
summer cleaning ▼	The floor is due for
summer cleaning	Room is due for a s
der for pest control	Generate a work ord
ng tiles after repairs	Replace stained ceilir
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<b>•</b>	
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Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Clean the HVAC coil	▼
Evaluate and repair cause of water damage	▼
Remove and replace wall material as necessary	▼
Evaluate the need for new door threshholds	▼
	▼
	▼
	▼