THE SCHOOL BOARD OF BROWARD COUNTY, FLORIDA ENVIRONMENTAL HEALTH & SAFETY DEPARTMENT

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December 8,	2016 Signature on File	For Custodial Supervisor Use Only
TO:	Heather DeVaughn, Principal Manatee Bay Elementary	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Robert Krickovich, Coordinator, LEA Environmental Health & Safety Department	Custodiai issues ivoi / idulessed
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On December 7, 2016, I conducted an assessment at **Manatee Bay 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 754-321-4200.

RK:smn

Enc.

cc: Shelley Meloni, Director, Pre-Construction
Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division

Broward Teachers Union
Federation of Public Employees
Gerald Devio, Supervisor II Custodial
Benjamin Osborne, Supervisor II Custodial
Mark Murray, Supervisor II Custodial
Sam Bays, Director, Maintenance Operations
Kurt Wirz, Area Manager Trades

Flooring dirt - Cob webs / dust on wall surfaces - Shelving dirty - HVAC supply grills dirty - Humidity elevated.

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 PPO	
Evaluate and repair HVAC system as needed	▼
Check all controls / dampers etc	▼
Repair HVAC to Reduce Humidity Levels	▼
Clean entire HVAC system - unit and drops	▼
Connect all controls in ALL HVAC equipment	▼
Repair ALL HVAC equipment entire school	▼
Humidity elevated entire school	▼
Humidity in corridors 65%	▼

Musty Odor in room - Dust on surfaces, heavy on elevated surfaces - Dirt / stains on walls on and above vinyl base -Flooring dirt - Cob webs / dust on wall surfaces - Shelving dirty - HVAC supply grills dirty - Ceilings at supply grills dirty, one with spotty microbial growth - Spotty microbial growth on ceiling tile at HVAC Return grill - Humidity elevated.

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

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Evaluate and repair HVAC system as needed	▼
Check all controls / dampers etc	▼
Repair HVAC to Reduce Humidity Levels	▼
Clean entire HVAC system - unit and drops	▼
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Evaluation Date

Manatee Bay Elementary

Time of Day

11:00 AM

Outdoor Conditions Temper	rature 75.4 Relative	Humidity 98.8	Ambient CO2 5	92
		Range <u>CO</u> % - 60 % 688		3
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	No	HVAC Return Grills Clean	Yes
Walls Clean No Flooring Clean No	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean	No
Room Surfaces No Clean	Ceiling at Supply Grills Clean	Yes		
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No	Drain Traps Wet	Yes	Air Fresheners	No
Room Cluttered Yes	Food if Stored in Room is in Sealed Containers	N/A	in Room	140
Mechanical Equipment Location	FISH 864		Mechanical Room Clean	Yes
Filters Installed Properly Ye	S Filters Clean	Yes	Inside of HVAC Unit Clean	No
Condensate Pan Clean No	Cooling Coil Clean	No		
Fresh Air Intake Location	Outside of Room	▼	Fresh Air Intake Free	Yes
Pollutant Sources Near Air Intake	None	▼	of Obstruction	

Observations

Humidity in corridors 72%

Dust on surfaces, heavy on elevated surfaces - Dirt / stains on walls on and above vinyl base - Flooring dirt - Cob webs / dust on wall surfaces - Shelving dirty - HVAC supply grills dirty - Humidity elevated.

Corrective Actions to be Completed by Site Based Staff

Thoroughly clean ALL surfaces	▼
Thoroughly clean and sanitize flooring	▼
Clean dust / debris from wall surfaces	▼
Clean Supply Grills with Wexcide	▼
Encourage occupant to reduce clutter	▼
Room to cluttered to clean properly	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Corrective Actions to be Completed by 110	
Evaluate and repair HVAC system as needed	▼
Repair HVAC to Reduce Humidity Levels	▼
Check all controls / dampers etc	▼
Clean entire HVAC system - unit and drops	▼
	▼
Repair ALL HVAC equipment entire school	▼
Humidity elevated entire school	▼
Humidity in corridors 72%	▼

Thoroughly clean ALL surfaces	▼
Thoroughly clean and sanitize flooring	▼
Clean dust / debris from wall surfaces	▼
Clean Supply Grills with Wexcide	▼
Clean HVAC Return Grill with Wexcide	▼
	▼
	▼

Corrective Actions to be Completed by FFO	
Evaluate and repair HVAC system as needed	▼
Repair HVAC to Reduce Humidity Levels	▼
Check all controls / dampers etc	▼
Clean entire HVAC system - unit and drops	▼
Repair exhaust fan in 855A (not working)	▼
Repair ALL HVAC equipment entire school	▼
Humidity elevated entire school	▼
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