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

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September 6,	2016 Signature on File	For Custodial Supervisor Use Only
TO:	Shernette Grant, Principal William Dandy Middle	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Robert Krickovich, Coordinator, LEA Environmental Health & Safety Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On September 2, 2016, I conducted an assessment at **William Dandy 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 754-321-4200.

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 Rich Volpi, Supervisor II Custodial Mark Murray, Supervisor II Custodial Sam Bays, Director, Maintenance Operations Kurt Wirz, Area Manager Trades

	IAQ Assessi	ment		
William D	andy Middle Evaluation Dat	September 2, 2016	Time of Day 10:0	00 AM
Outdoor Conditions Tempera	ature 87.3 Relative	Humidity 86.0	Ambient CO2 45	54
		Range CO ² % - 60% 533		cupants 2
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling2' X 2' Lay inWallsPlasterFloorCeramic Tile	No No No	No Yes No	spotty by exhaust in 4	14E
Ceiling Clean Yes Walls Clean Yes	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean	No
Flooring Clean Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean	Yes
Room Surfaces No Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / Cleaners in Room	No
Signs of PestsNoRoom ClutteredNo	Drain Traps Wet Food if Stored in Room is in Sealed Containers	Yes N/A	Air Fresheners in Room	No
Mechanical Equipment Location	FISH 414B		Mechanical Room Clean	Yes
Filters Installed Properly Yes	5 Filters Clean	No	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes	Cooling Coil Clean	Yes		
Fresh Air Intake Location Pollutant Sources Near Air Intake	Roof top None	▼ ▼	Fresh Air Intake Free of Obstruction	Yes
Observations				
Temperature to low - Humidity s vent in 414E.	ilightly elevated - dust on surfac	ces - spotty microbial	growth on wall under exh	aust fan

Thoroughly clean ALL surfaces	▼
Clean wall in 414E	▼
Clean HVAC Return Grill with Wexcide	▼
Remove and replace A/C Filters	▼
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Corrective Actions to be Completed by PPO

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	IAQ Assess	ment		
William Da	andy Middle Evaluation Date	te September 2, 2016	Time of Day 10:00 A	١M
Outdoor Conditions Tempera	ture 87.3 Relative	e Humidity 86.0	Ambient CO2 454	
		Range CO % - 60% 458		pants 3
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling2' X 2' Lay inWallsPlasterFloorCeramic Tile	No No	No No No		
Ceiling Clean Yes Walls Clean Yes	HVAC Supply Grills Clean Inside of Supply	Yes	HVAC Return Grills Clean	Yes
Flooring Clean No	Duct Clean	Yes	Duct Clean	Yes
Room Surfaces No Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals /	No
Signs of PestsNoRoom ClutteredYes	Drain Traps Wet Food if Stored in Room is in Sealed Containers	Yes N/A	Air Fresheners in Room	No
Mechanical Equipment Location	FISH 414B		Mechanical Room Clean	Yes
Filters Installed Properly Yes	Filters Clean	Νο	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes	Cooling Coil Clean	Yes		
Fresh Air Intake Location	Roof top	▼	Fresh Air Intake Free	Yes
Pollutant Sources Near Air Intake	None	▼		
Observations Temperature to low - Humidity s	lightly elevated - dust on surfa	ces - Room to cluttere	ed to clean properly	

Encourage occupant to reduce clutter	▼
Thoroughly clean ALL surfaces	▼
Thoroughly clean and sanitize flooring	▼
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Corrective Actions to be Completed by PPO

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Replace ceiling tiles at HVAC supply grills	▼
Set Temperature to 72 - 78 degrees	▼
Repair HVAC to Reduce Humidity Levels	▼
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	IAQ Assessr	nent		
William Da	andy Middle Evaluation Dat	e September 2, 2016	Time of Day 10:	00 AM
Outdoor Conditions Tempera	ature 87.3 Relative	Humidity 86.0	Ambient CO2 4	54
		Range CO ² % - 60% 488	Range # Oo MAX 700 > Ambient	2
Noticeable Odor No Ceiling 2' X 2' Lay in	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Walls Plaster Floor 12" x 12" Vinyl	No	No No		
Ceiling Clean Yes Walls Clean Yes	HVAC Supply Grills Clean Inside of Supply	Yes	HVAC Return Grills Clean Inside of Return	Yes
Flooring Clean Yes Room Surfaces Yes Clean	Duct Clean Ceiling at Supply Grills Clean	No	Duct Clean	No
Trash RemovedYesSigns of PestsNoRoom ClutteredNo	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers	Yes No N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No
Mechanical Equipment Location Filters Installed Properly Yes Condensate Pan Clean Yes		Yes I	Mechanical Room Clean nside of HVAC Unit Clean	Yes Yes
Fresh Air Intake Location Pollutant Sources Near Air Intake	Outside of Room None	▼	Fresh Air Intake Free of Obstruction	Yes
Observations Science classroom - 10 sinks AL Inside of return box dirty	L traps dry (dry traps allow sev	wer gas to enter buildin	g) - several dirty ceiling	tiles -

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Corrective Actions to be Completed by PPO

Replace ceiling tiles at HVAC supply grills	▼
Clean inside of Return box	▼
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	IAQ Assessr	nent		
William D	Dandy Middle Evaluation Date	e September 2, 2016	Time of Day 10:	00 AM
Outdoor Conditions Temper	ature 87.3 Relative	Humidity 86.0	Ambient CO2 4	54
		Range CO % - 60% 985		26
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling2' X 2' Lay inWallsPlasterFloor12" x 12" Vinyl	No No No No	No No		
Ceiling CleanNoWalls CleanNoFlooring CleanYes	HVAC Supply Grills Clean Inside of Supply Duct Clean	Yes	HVAC Return Grills Clean Inside of Return Duct Clean	Yes Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes	Exhaust Fans Working Drain Traps Wet	Yes	Unapproved Chemicals / Cleaners in Room	No
Room Cluttered No	Food if Stored in Room is in Sealed Containers	N/A	Air Fresheners in Room	No
Mechanical Equipment Location	FISH 731		Mechanical Room Clean	Yes
Filters Installed Properly	s Filters Clean	Yes	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes	S Cooling Coil Clean	Yes		
Fresh Air Intake Location Pollutant Sources Near Air Intake	Outside of Room None	▼ ▼	Fresh Air Intake Free of Obstruction	Yes
Observations			····	(I
Science classroom - 10 sinks A Dust on walls.	LL traps dry (dry traps allow sev	ver gas to enter build	ing) - several dirty celling	tiles -
C007A & C007B - Open grill to r	oof no dampers installed allowing	ng intrusion of untrea	ted air into space - PPO ir	stall

dampers to open when purge fan is turned on.

Clean dust and debris from ceilings	▼
Replace dirty ceiling tiles	▼
Clean dust from wall surfaces	▼
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Corrective Actions to be Completed by PPO

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educe Humidity Levels	Repair HVAC to Redu
s at HVAC supply grills ▼	Replace ceiling tiles at
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oen vents in 007A & 007B ▼	Install dampers on open
en purge fan is turned on	dampers to open when p
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	IAQ Assessn	nent		
William	Dandy Middle Evaluation Date	e September 2, 2016	Time of Day 10:0	0 AM
Outdoor Conditions Temp	erature 87.3 Relative	Humidity 86.0	Ambient CO2 45	4
		Range CO ² % - 60% 456	Range # Oce MAX 700 > Ambient	cupants 3
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 2' Lay in	No	No		
Walls Plaster	No	No		
Floor 12" x 12" Vinyl	No	No		
Ceiling Clean Yes Walls Clean Yes	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean	Yes
Flooring Clean Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean	Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	Yes		
Trash Removed Yes	Exhaust Fans Working Drain Traps Wet		Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No Room Cluttered No	Food if Stored in Room is in Sealed Containers	N/A	Air Fresheners in Room	No
Mechanical Equipment Location	on FISH 731		Mechanical Room Clean	Yes
Filters Installed Properly	Filters Clean	Yes In	side of HVAC Unit Clean	Yes
Condensate Pan Clean	Cooling Coil Clean	Yes		
Fresh Air Intake Location	Outside of Room	▼	Fresh Air Intake Free	Yes
Pollutant Sources Near Air Intake	None	▼	of Obstruction	
Observations				
Temperature to low - Humidit	y slightly elevated			

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Corrective Actions to be Completed by PPO

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▼	Set Temperature to 72 - 78 degrees
▼	Repair HVAC to Reduce Humidity Levels
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