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

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October 12,	2017 Signature on File	For Custodial Supervisor Use Only
TO:	Brad Mattair, Principal Parkway Middle	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Alison Witoshynsky, Project Manager Environmental Health & Safety Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On January 31, 2017, I conducted an assessment at **Parkway Middle.** 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.

AW:smn Enc.

cc: Sam Bays, Director, Maintenance Operations
Shelley Meloni, Director, Pre-Construction
Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division
Greg Neiman, Area Supervisor, Zone 1
Kurt Wirz, Area Manager Trades
Gerald Devio, Supervisor II Custodial
Benjamin Osborne, Supervisor II Custodial
Mark Murray, Supervisor II Custodial
Broward Teachers Union

Federation of Public Employees

IAQ Assessment

Park	kway Middle Evaluation Dat	October 5, 2017	Time of Day 11:0	0 AM
Outdoor Conditions Tempera	ature 81.2 Relative	Humidity 95.9	Ambient CO2 45	8
		Range CO ² % - 60%		cupants ~20
Noticeable Odor No Ceiling Metal Deck Walls Concrete block Floor Wood	Visible water damage / staining? No No No	Visible microbial growth? No No No	Amount of material affected	
Ceiling Clean Walls Clean Flooring Clean Yes Room Surfaces Clean	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	Yes Yes	HVAC Return Grills Clean Inside of Return Duct Clean	No No
Trash Removed Yes Signs of Pests No Room Cluttered No	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers	N/A N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No
Mechanical Equipment Location Filters Installed Properly Condensate Pan Clean No	_ _	Yes No	Mechanical Room Clean Inside of HVAC Unit Clean	No No
Fresh Air Intake Location Pollutant Sources Near Air Intake	Roof top Not readily accessible	▼	Fresh Air Intake Free of Obstruction	N/A
Observations HFSP reports that the A/C for the During assessment the tempera was on the high end during our	ture was within acceptable rang	ge, however, it was rai	ning outside. Relative hun	

(J830531). There was a large amount of condensation on the outside of the unit during out Site visit. The return vent was heavily covered in dust. Dust was present on the sound panels on the upper portions of the wall.

Corrective Actions to be Completed by Site Based Staff

Corrective Actions to be Completed by Site Dased t	, tuii
Clean dust from wall surfaces, sound panels	▼
	▼
	▼
	•
	•
	•
	▼
	▼

Corrective Actions to be Completed by PPO

Corrective Actions to be completed by 110	
Evaluate and repair HVAC system as needed	▼
Confirm Set Temperature at 72 - 78 degrees	▼
Repair HVAC to Reduce CO2 Levels	▼
Repair HVAC to Reduce Humidity Levels	▼
Clean HVAC return grills and drops	▼
	▼
	▼
_	▼

IAQ Assessment

Parkway I	<u>Middle</u> Evaluation Da	te October 5, 2017	Time of Day1	100
Outdoor Conditions Temperature	81.2 Relative	e Humidity 95.9	Ambient CO2 4	58
Fish Temperature Range 136 92.8 72 - 78	i	Range CO ² % - 60%	Range # Oc MAX 700 > Ambient	6
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	Yes	Yes	2 CT, 3 light lenses	5
Walls Plaster / Drywall	No	No		
Floor 12" x 12" Vinyl	No	No		
Ceiling Clean Walls Clean Flooring Clean Yes Yes	HVAC Supply Grills Clean Inside of Supply Duct Clean	Yes	HVAC Return Grills Clean Inside of Return Duct Clean	No N/A
Room Surfaces No	Ceiling at Supply Grills Clean	Yes	Buct Glean	
Trash Removed Yes Signs of Pests No	Exhaust Fans Working Drain Traps Wet	N/A	Unapproved Chemicals / Cleaners in Room	No
Room Cluttered Yes	Food if Stored in Room is in Sealed Containers	N/A	Air Fresheners in Room	Yes
Mechanical Equipment Location Abo	ve Ceiling		Mechanical Room Clean	N/A
Filters Installed Properly Yes	Filters Clean		Inside of HVAC Unit Clean	N/A
Condensate Pan Clean N/A	Cooling Coil Clean	N/A		
Fresh Air Intake Location Pollutant Sources Near Air Intake	erior Ceiling Soffit	▼	Fresh Air Intake Free of Obstruction	Yes
Observations				
The HFSP was not aware of the issue offices. Therefore, the IAQ protocol of			quest for assessment to o	our
The HFSP reports that there are multi 824291, 813474, J009778).	ple leaks on the roof that	are being addressed u	nder multiple WOs (J817	521,
Corrective Actions to be Completed			ns to be Completed by PF	
Room(s) too cluttered to clean	 	-	r HVAC system as needed	
Encourage occupant to reduce Wipe light lense with Wexcide and e			erature at 72 - 78 degrees Reduce Humidity Levels	s ▼
Remove and replace stained c			cause of stained ceiling t	-
Followup on COMPASS work order		•	multiple WO identified)	▼
Pomovo and roplace A/C F	iltore 🔻	Install now coiling ti	lo unon ronair, cute nood	

	Parkway Middle So	hool Evaluation Da	te Octo	ber 5,	2017	Time of Day	110	00
ıtdoor Conditions	Temperature	81.2 Relative	e Humidity	y <u>9</u>	5.9	Ambient CO	2 458	3
ish # of rooms a	ssessed							
35, 136, 137A, 138								
Temperature Range i	n the Rooms Asses	sed was Between	66.9	And	92.8	Acceptable Range	72 - 78	
Relative Humidity F	Range in the Rooms	s Assessed was Between	65.2	And	97.6	Acceptable Range	30% - 6	0%
Co ² Range in the Ro	ooms Assessed w	as between	492	And	668	Acceptable Range	MAX 70 Ambie	
loticeable Odor eiling 2' X 4' Valls Dryv loor 12" x 12	wall	Visible water damage / staining? Yes No	gr	e micro owth? Yes No	bial	Amount material aff 1 CT (137A),	ected)
		ave a water mark or are set/stained and need to be			wn color.	Need to be ope	ened and	
leaned. Two cut c	eiling tiles are we				wn color.	Need to be ope	ened and	
leaned. Two cut c	eiling tiles are we d ceiling tile Yes				wn color.	HVAC Retu Grills Clean	urn	
leaned. Two cut c	ceiling tiles are we	et/stained and need to be	e replaced		wn color.	HVAC Retu	urn n	No N/A
leaned. Two cut complete illing Clean alls Clean ooring Clean com Surfaces	ceiling tiles are we d ceiling tile Yes	HVAC Supply Grills Clean	Yes		wn color.	HVAC Retu Grills Clea Inside of R	urn n	No
leaned. Two cut colleaned. Two cut colleaned. Two cut colleaned. Is taken alls Clean coring Clean coom Surfaces ean	reiling tiles are we deciling tile Yes Yes	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply	Yes Yes		U	HVAC Retu Grills Clea Inside of R	urn n eturn nicals /	No N/A
eiling Clean alls Clean coring Clean com Surfaces lean	Yes Yes No	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	Yes Yes Yes		U	HVAC Retu Grills Clear Inside of R Duct Clean	urn n eturn nicals /	No
leaned. Two cut could be a second council. Two cut could be a second co	Yes Yes No Yes No Yes	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	Yes Yes N/A		U	HVAC Retu Grills Clean Inside of R Duct Clean napproved Chen leaners in Room	urn n eturn nicals /	No N/A

here that is not clean.

Multiple Room IAQ Assessment
Parkway Middle School Evaluation Date October 5, 2017 Time of Day 1100
Outdoor Conditions Temperature 81.2 Relative Humidity 95.9 Ambient CO2 458
HVAC System
Mechanical Equipment Location Above Ceiling Mechanical Room Clean N/A
Filters Installed Properly Yes Filters Clean Yes Inside of HVAC Unit Clean N/A
Condensate Pan Clean N/A Cooling Coil Clean N/A N/A in this section = Not Accessible
Fresh Air Intake Location Exterior Ceiling Soffit Fresh Air Intake Free of Obstruction Yes
Pollutant Sources Near Air Intake
Observations
The HFSP was not aware of the issue/complaint prior to Worker's Comp sending a request for assessment to our offices. Therefore, the IAQ protocol could not be conducted.
The HFSP reports that there are multiple leaks on the roof that are being addressed under multiple WOs (J817521, 824291, 813474, J009778).

Corrective Actions to be Completed by Site Based Staff

Controller of the Boller By Cite Bucca Ca	
Room(s) too cluttered to clean properly	▼
Encourage occupant to reduce clutter	▼
Wipe light lense with Wexcide and evaluate/monitor	▼
Remove and replace stained ceiling tile	▼
Followup on COMPASS work order for Roof Leaks	▼
Remove and replace A/C Filters	▼
Remove air fresheners	▼
	▼
	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair HVAC system as needed	▼
Confirm Set Temperature at 72 - 78 degrees	▼
Repair HVAC to Reduce Humidity Levels	▼
Evaluate and repair cause of stained ceiling tile	▼
(roof leaks per multiple WO identified)	▼
Install new ceiling tile upon repair, cuts needed	▼
	▼
	▼
	▼
	▼
	▼
	▼
	▼