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

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November 20	, 2017	Signature on File	For Custodial Supervisor Use Only
TO:	Erik Anderson, Prin	±	Custodial Issues Addressed  Custodial Issues Not Addressed
FROM:	Alison Witoshynsk Environmental Hea	y, Project Manager alth & Safety Department	
SUBJECT:	Indoor Air Quality	(IAQ) Assessment	

On November 17, 2017, I conducted an assessment at **Tropical 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.

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

		Willitiple Room IAQ							
	Tropical Elem. S	<u>Chool</u> Evaluation Da	ate Nover	nber 17	, 2017	Time of Day	12	30	
Outdoor Conditions	Temperature	80.0 Relativ	e Humidity	y 57	7.2	Ambient CO	2 410	)	
Fish # of rooms a	assessed								
850, 851, 852, 853									
Temperature Range	in the Rooms Asse	ssed was Between	71.8	And	74.8	Acceptable Range	72 - 78		
Relative Humidity	Range in the Roon	ns Assessed was Between	59.6	And	76.3	Acceptable Range	30% - 6	0%	
Co <sup>2</sup> Range in the R	ooms Assessed	was between	589	And	828	Acceptable Range	MAX 70 Ambie		
Noticeable Odor [	No	Visible water damage / staining?		e microb owth?	oial	Amount material aff			
Ceiling 2' X 4'	ing 2' X 4' Lay in Yes			No			multiple ceiling tiles in each		
	wall	No	No paint peeling, bucklin			uckling(8	52)		
Floor 12" x 1:	2" Vinyl	No	L	No					
FISH 852: Wet dryw (~2' x 3'). Likely tha	vall above the dry Double check abo t this area corres	ghout, but mainly near the rerase board and below bove ceiling tile grid, likely ponds to large paint pee he rooms inspected. Mo	the ceiling y roof sear lling area c	ı tile gri m. on adjoi	d on the v ining wall	vest wall (@ mi	ddle,		
Ceiling Clean	Yes	HVAC Supply Grills Clean	Yes			HVAC Retu Grills Clear		No	
Walls Clean	Yes	Inside of Supply Duct Clean	Yes			Inside of Ro		N/A	
Flooring Clean	No	Ceiling at Supply				Duct Clean	'		
Room Surfaces Clean	No	Grills Clean	Yes						
Trash Removed	Yes	Exhaust Fans Working	Yes			napproved Chen leaners in Room		No	
Signs of Pests	No	Drain Traps Wet	N/A			Air Fresheners		No	
Room Cluttered	Yes	Food if Stored in Room is in Sealed Containers	N/A			in Room			

## **Multiple Room IAQ Assessment**

	wulliple Ro	UIII IAQ ASSESS	mem		
Tropical El	lem. School Eva	luation Date Nove	mber 17, 2017	Time of Day	1230
Outdoor Conditions Tempera	ature 80.0	Relative Humidit	y 57.2	Ambient CO2 4	110
HVAC System					
Mechanical Equipment Location	BARD in each Roon	า	M	lechanical Room Clean	N/A
Filters Installed Properly Yes	Filte	rs Clean No	Insi	ide of HVAC Unit Clean	N/A
Condensate Pan Clean N/A	Cooling C	oil Clean N/A	N/A i	n this section = Not Acc	cessible
Fresh Air Intake Location Pollutant Sources Near Air Intake	Exterior Wall		▼	Fresh Air Intake Free of Obstruction	Yes
Observations	de book called in for t	the week look income	identified above		
Multiple work orders have alread H010797, J815009, J825435	ay been called in 101-1	.Ne root leak issues	s Identified above	<b>).</b>	
Drywall and ceiling tiles need to	be removed/replaced	d during inspection	repair of roof is:	sue.	
Server is present in FISH 850. V	ery high humidity in t	this room. Needs t	o be adjusted ac	cordingly	
Corrective Actions to be Comp	leted by Site Based S	taff Co	rrective Actions t	to be Completed by P	PO
Remove and replace stai	ned ceiling tile	▼ No Nev	w Work Orders fo	r roof leak repair/repl	ace ▼
		1 — 1	11040505 104		1 — 1

Controlled to 20 Completed by Cite Bucca C			
Remove and replace stained ceiling tile	▼		
If stains return, follow up with Maint. on existing			
work order	▼		
Remove and replace A/C Filters	▼		
Date the filters properly	▼		
Clean wall surfaces before repainting	▼		
	▼		
	▼		
	▼		
	▼		
	▼		
	▼		
	▼		

No New Work Orders for roof leak repair/replace				
H010797, J815009, J825435	▼			
Remove and replace wall material as needed	▼			
Install new ceiling tile upon repair, cuts needed	▼			
	▼			
Repair HVAC to Reduce Humidity Levels	▼			
FISH 850, 852, 853 (needs evaluation)	▼			
FISH 851 (elevated)	▼			
	▼			
	▼			
	▼			
	▼			
	▼			