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

TELEPHONE (754) 321-4200

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April 15, 2016	Signature on File	For	r Custodial Supervisor Use Only
			Custodial Issues Addressed
TO:	Shawn Allen, Principal		Custo dial Januar Nati Addussed
	Lloyd Estates Elementary		Custodial Issues Not Addressed
FROM:	Daniel Meyer, Project Manger		
	Environmental Health & Safety Department		
SUBJECT:	Indoor Air Quality (IAQ) Assessment		

On April 14, 2016, I conducted an assessment at **Lloyd Estates 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.

DM: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	nent		
Lloyd Estates	Elementary Evaluation Dat	e April 14, 2016	Time of Day 6:30	AM
Outdoor Conditions Temper	ature 79.6 Relative	Humidity 63.4	Ambient CO2 425	
		Range CO ² % - 60% 434		upants 2
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling2' X 4' Lay inWallsPlaster / FoldingFloor12" x 12" Vinyl	No No No	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	Νο		
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No Room Cluttered No	Drain Traps Wet Food if Stored in Room is in Sealed Containers	Yes N/A	Air Fresheners	No
Mechanical Equipment Location	Roof Top		Mechanical Room Clean	N/A
Filters Installed Properly	s Filters Clean	Yes	Inside of HVAC Unit Clean	No
Condensate Pan Clean Yes	S Cooling Coil Clean	Yes		
Fresh Air Intake Location Pollutant Sources Near Air Intake	Bottom of Unit No	▼ ▼	Fresh Air Intake Free of Obstruction	Yes
Observations				
Return ductwork needs to be cl be cleaned. Checked above the				ls to

Corrective Actions to be Completed by Site Based Staff

Clean dust from ceiling tiles around supply grill	▼
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Corrective Actions to be Completed by PPO

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Clean return ductwork	▼
Check operation of fresh air damper	▼
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IAQ Assessment						
Lloyd Estates E	lementary Evaluation Dat	e April 14, 2016	Time of Day 6:	30 AM		
Outdoor Conditions Temperate	ure 79.6 Relative	Humidity 63.4	Ambient CO2 4	25		
Fish Temperature Ran 124 69.7 72 -		Range CO ² % - 60% 434		ccupants 2		
Noticeable OdorNoCeiling2' X 4' Lay in	Visible water damage / staining? No	Visible microbial growth?	Amount of material affected			
Walls Plaster / Folding Floor 12" x 12" Vinyl	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	Duct Clean	Yes	Duct Clean	Yes		
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	Νο				
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No		
Signs of Pests No Room Cluttered No	Drain Traps Wet Food if Stored in Room is in Sealed Containers	Yes N/A	Air Fresheners in Room	No		
Mechanical Equipment Location	Roof Top		Mechanical Room Clean	N/A		
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean	No		
Condensate Pan Clean Yes	Cooling Coil Clean	Yes				
Pollutant Sources Near Air	Bottom of Unit No	▼ ▼	Fresh Air Intake Free of Obstruction	Yes		
Observations						
Return ductwork needs to be clea be cleaned.	ned (dusty). Check outside ai	r damper on roof. Cei	ling around supply grill ne	eeds to		

Corrective Actions to be Completed by Site Based Staff

Clean dust from ceiling tiles around supply grill	▼
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Corrective Actions to be Completed by PPO

	Clean return ductwork	▼
	Check operation of fresh air damper	▼
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IAQ Assessment						
Lloyd Estates E	Elementary Evaluation Dat	e April 14, 2016	Time of Day 6:	30 AM		
Outdoor Conditions Temperat	ure 79.6 Relative	Humidity 63.4	Ambient CO2 4	25		
FishTemperatureRan12568.672 -		Range CO % - 60% 437		ccupants 2		
Noticeable OdorNoCeiling2' X 4' Lay inWallsPlaster / Folding	Visible water damage / staining? No No	Visible microbial growth? No No	Amount of material affected			
Floor 12" x 12" Vinyl	No	No				
Ceiling CleanYesWalls CleanYes	HVAC Supply Grills Clean Inside of Supply	No	HVAC Return Grills Clean Inside of Return	Yes		
Flooring Clean Yes	Duct Clean	Yes	Duct Clean	Yes		
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No				
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No		
Signs of Pests No Room Cluttered No	Drain Traps Wet Food if Stored in Room is in Sealed Containers	Yes N/A	Air Fresheners in Room	No		
Mechanical Equipment Location	Roof Top		Mechanical Room Clean	N/A		
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean	No		
Condensate Pan Clean Yes	Cooling Coil Clean	Yes				
Pollutant Sources Near Air	Bottom of Unit No	▼	Fresh Air Intake Free of Obstruction	Yes		
Observations						
Return ductwork needs to be clea be cleaned. Clean supply grill. Fix classroom.				eds to		

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

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IAQ Assessment						
Lloyd Esta	tes Elementary Evalu	ation Date Apri	il 14, 2016	Time of Day 6	:30 AM	
Outdoor Conditions Temp	perature 79.6	Relative Humidity	63.4	Ambient CO2	425	
FishTemperature12668.7	RangeRelative Humi72 - 7853.9	dity Range 30% - 60%	CO ² 455	Range # (MAX 700 > Ambient	Occupants	
Noticeable Odor No	Visible water dan staining?	lage/	microbial owth?	Amount of material affected		
Ceiling 2' X 4' Lay in			No L			
Walls Plaster / Folding	No					
Floor 12" x 12" Vinyl	No		No			
Ceiling Clean Yes Walls Clean Yes	HVAC Sup Grills Clea			HVAC Return Grills Clean	Yes	
Flooring Clean Yes	Inside of S Duct Clea			Inside of Return Duct Clean	Yes	
Room Surfaces Yes Clean	Ceiling at Grills Clea					
Trash Removed Yes	Exhaust Fans V	Vorking N/A		Unapproved Chemicals Cleaners in Room	/ No	
Signs of Pests No	Drain Tra	aps Wet Yes		Air Fresheners	Yes	
Room Cluttered No	Food if Stored in I in Sealed Contain			in Room	103	
Mechanical Equipment Locati	on Roof Top		I	Mechanical Room Clean	N/A	
Filters Installed Properly	Yes Filters	Clean Yes	Ins	side of HVAC Unit Clean	No	
Condensate Pan Clean	Yes Cooling Coi	I Clean Yes				
Fresh Air Intake Location	Bottom of Unit		▼	Fresh Air Intake Free of Obstruction	Yes	
Pollutant Sources Near Air Intake	Νο		▼	of obstruction		
Observations						
Return ductwork needs to be be cleaned. Clean supply gril					needs to	

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

Clean return ductwork	▼
Check operation of fresh air damper	▼
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