

Aston A. Henry, Task Assigned Director

# managing risk with responsibility

754 321-1900

Telephone:

Risk Managem	nent Department	Fax: 754 321-1917
May 20, 2013	Signature on File	For Custodial Supervisor Use Only
TO:	Frances Fuce-Ollivierre, Principal Castle Hill Elementary School	Custodial Issues Addressed  Custodial Issues Not Addressed
FROM:	Robert Krickovich, Coordinator I, LEA Facilities Design and Construction	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On May 2, 2013, I conducted an assessment at **Castle Hill 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 754-321-1907.

cc: Shelley Meloni, Task Assigned Chief Facilities & Construction Officer, Facilities & Construction Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division Roy Norton, Manager, Custodial/Grounds, Physical Plant Operations Division Aston Henry, Task Assigned Director, Risk Management Sonja Coley, Senior Project Manager, Facilities Design and Construction Broward Teachers Union Federation of Public Employees

RK/tc Enc.

## **IAQ Assessment**

Castle Hill	Elementary Evaluation Dat	e May 2, 2013	Time of Day 1	:30
Outdoor Conditions Tempera	ture 83.4 Relative	Humidity 63.5	Ambient CO2 48	34
	<u> </u>	Range CO <sup>2</sup> 586	Range # Oc MAX 700 > Ambient	cupants
Noticeable Odor Yes  Ceiling 2' X 4' Lay in  Walls Drywall  Floor Carpet	Visible water damage / staining? No No Yes	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	No Yes No	HVAC Return Grills Clean Inside of Return Duct Clean	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  N/A	_	N/A N/A	Mechanical Room Clean Inside of HVAC Unit Clean	N/A N/A
Fresh Air Intake Location Pollutant Sources Near Air Intake	N/A	▼	Fresh Air Intake Free of Obstruction	
Observations Media Center - Complaint of wate shelves - HVAC supply and retur has minor ripples and staining -	n grills dirty - Ceilings at supp	ly grills dirty - Inside of	4' x 4' Return duct dirty	Carpet

# **Corrective Actions to be Completed by Site Based Staff**

constant and the me completion by the Eucon Ci	
Thoroughly clean all surfaces	▼
Clean ceilings around HVAC supply grills	▼
Clean HVAC supply and return grills with Wexcide	▼
	▼
	•
	▼
	▼
	▼

## **Corrective Actions to be Completed by PPO**

▼	Clean inside of 4' x 4' Return duct
▼	Clean roof top HVAC unit
▼	Replace water damaged carpet behind reception
▼	desk front of rooms 117D & 117E
<b>▼</b>	
▼	
▼	
▼	

### **IAQ Assessment**

Castle	Hill Elementary Evaluation D	<b>May 2, 2013</b>	Time of Day 1:30
Outdoor Conditions Tem	perature 83.4 Relati	ve Humidity 63.5	Ambient CO2 484
Fish Temperature 117E 68.1	Range Relative Humidity 72 - 78 55.4	Range <u>CO</u> 80% - 60% 588	
Noticeable Odor Yes	Visible water damage / staining?	Visible microbial growth?	Amount of material affected
Ceiling 2' X 4' Lay in	Yes	No	4 stained / 3 missing
Walls Drywall	No	No	
Floor Carpet	Yes	No	Entire Room
Ceiling Clean Yes Walls Clean No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean No
Flooring Clean Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean No
Room Surfaces No Clean	Ceiling at Supply Grills Clean	No	
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room
Signs of Pests No	Drain Traps We	t Yes	
Room Cluttered No	Food if Stored in Room i in Sealed Containers	s N/A	Air Fresheners No in Room
Mechanical Equipment Locat	ion Above Ceiling and on Roof		Mechanical Room Clean N/A
Filters Installed Properly	N/A Filters Clean	N/A	Inside of HVAC Unit Clean N/A
Condensate Pan Clean	N/A Cooling Coil Clean	N/A	
Fresh Air Intake Location	N/A	▼	Fresh Air Intake Free
Pollutant Sources Near Air Intake		▼	of Obstruction
<b>6</b> 1 4'			

#### Observations

Bad musty odor in room - Dust on walls in front of supply grills - 4 stained ceiling tiles various areas of room - Complaint of water dripping under HVAC unit above ceiling North side of room - 2' x 3' picture on counter top North side of room soaking wet with microbial growth (discarded by HFSP) - water under picture on counter top - carpet wet under HVAC unit where ceiling tiles missing - Inside of cabinet wet (drawers swollen / warped) - musty odor in cabinet - HVAC condensate above ceiling leaked into room and caused heavy water damage to cabinets, wall, & carpet in room.

## Corrective Actions to be Completed by Site Based Staff

Corrective Actions to be completed by the Based of	u
Thoroughly clean all surfaces	
Clean dust from wall surfaces	▼
Clean ceilings around HVAC supply grills	▼
Clean HVAC supply and return grills with Wexcide	
	▼
	▼
	▼
	▼

#### Corrective Actions to be Completed by PPO

Corrective Actions to be completed by 1.1.6	
Evaluate and repair cause of stained ceiling tiles	▼
Clean Entire HVAC System - Unit and Drops	▼
Remove cabinet from North wall	▼
Repair/replace cabinet	▼
Remove and replace wall material behind cabinet	▼
Replace missing ceiling tiles	▼
Replace water damaged carpet	▼
	▼