

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

November 21, 2007 Signature on File For Custodial Supervisor Use

TO: Mr. Washington Collado,, Principal

Lyons Creek Middle School

FROM: Aston Henry, Supervisor

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

Portable 302C and 625C

<u>F</u>	or Custodial Supervisor Use Only
	Custodial Issues Addressed
	Custodial Issues Not Addressed

On September 18, 2007 I conducted an assessment of Portable 302C and 625C at Lyons Creek Middle School. This evaluation included observations of the flooring system, ceiling tiles, false ceiling plenum, environmental surfaces, interior and exterior walls, and the accessible ventilation equipment. Additionally, environmental parameter measurements were taken to include temperature, relative humidity, and carbon dioxide. The detailed findings, along with the recommended corrective action can be found on the attached IAQ Assessment Worksheets.

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. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all 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 me at 754-321-3200.

cc: Dr. Joanne Harrison, Area Superintendent
Sharon Airaghi, Area Director
Jeffrey S. Moquin, Director, Risk Management
Marshall Washington, Project Manager, Facilities and Construction Management
Lynn Cavall, Broward Teachers Union
Roy Jarrett, Federation of Public Employees
Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

AH/tc Enc.

	L	yons Creek I	Middle School		Evaluat	ion Requested	Septem	ber 12, 2007
Time of Day	1:35 pm				E	Evaluation Date	Septem	ber 18, 2007
Outdoor Condi	tions T	emperature	87.2	Relative Humidity	78.9	Ambie	nt CO2	463
Fish	Temperature	Range	Relative Humidity	/ Range	CO2	Ran	ige	# Occupants
P-302C	67.4	72 - 78	64.8	30% - 60%	2121	Max 700	> Ambie	nt 18
Noticeable Od	lor No		Visible water damage / staining	Visible micro g? growth?		Amount of ma	terial	_
Ceiling Type	2 x 4 L	ay In	Yes	No		1 c	eiling tile	
Wall Type	Gypsum	Board	No	No			None	
Flooring	Tile	;	No	No			None	
	Clean	Minor D / Debr		3	Correc	ctive Action Re	equired	
Ceiling	No	Yes	Yes	F	Remove	and replace ce	iling tile	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills No	Yes	Yes	С	lean wit	h Wexcide dis	infectant	
HVAC Return	Grills No	Yes	Yes	С	lean wit	h Wexcide dis	infectant	
Ceiling at Supp Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

IAQ Assessment

3101

Location Number

Observations

Findings:

- Dust build up, condensation and microbial growth on West unit A/C coils
- Dust build up on A/C supply and return grills
- Live plant (old) in room
- One stained ceiling tile
- False ceiling plenum was clean and dry. Appears that cold air from A/C unit is mixing with warm air from outside and causing condensation.
- Temperature was low and humidity and CO2 levels were slightly elevated

Recommendations:

Site Based Maintenance:

- Clean A/C supply and return grills
- Remove plant from room
- Remove and replace stained ceiling tile
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Physical Plant Operations

- Clean coils on West A/C unit
- Evaluate A/C units for proper operation and repair as appropriate to increase temperature and lower CO2 and humidity level

NOTE: EQ01079 through EQ01083 were generated to address Physical Plant Operations recommendations

	Lyc	ons Creek Mid	dle School		Evaluat	ion Requested Septe	ember 12, 2007
Time of Day	1:35 pm]			E	Evaluation Date Septe	ember 18, 2007
Outdoor Condi	tions Ten	nperature	87.2	Relative Humidity	78.9	Ambient CO2	463
Fish	Temperature	Range Re	lative Humidity	Range	CO2	Range	# Occupants
P-625C	78.3	72 - 78	62.7	30% - 60%	1532	Max 700 > Amb	ient 30
Noticeable Od	lor No] da	Visible water mage / staining	Visible micro growth?	bial	Amount of material affected	
Ceiling Type	2 x 4 Lay	In	No	No		None	
Wall Type	Gypsum Bo	oard	Yes	No		East wall	
Flooring	Tile		No	No		None	
	Clean	Minor Dust	Needs Cleaning		Correc	ctive Action Required	
Ceiling	Yes	No	No				
Walls	Yes	No	No				
Flooring	Yes	No	No				
HVAC Supply	Grills Yes	No	No				
HVAC Return	Grills Yes	No	No				
Ceiling at Sup Grills	ply Yes	No	No				
Surfaces in Ro	oom Yes	No	No				
hearvations							

IAQ Assessment

3101

Location Number

Observations

Findings:

- Only one A/C unit was operating at the time of the assessment
- Elevated moisture content in East wall under A/C unit. Wall is bulging
- A/C filters and coils were clean on both units
- Humidity and CO2 level was slightly elevated

Recommendations:

Site Based Maintenance:

Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Physical Plant Operations

- Evaluate cause of elevated moisture in East wall under A/C unit and repair as appropriate. Repair/replace wall material as appropriate.
- · Evaluate both A/C units for proper operation and repair as appropriate to lower humidity and CO2 level

NOTE: EQ01079 through EQ01083 were generated to address Physical Plant Operations recommendations