

Aston A. Henry, Supervisor Risk Management Department

managing risk with responsibility

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October 12, 200	9 Signature on File
TO:	Mr. Frank Zagari, Principal Indian Ridge Middle School
FROM:	Edward See, Project Manager Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment Portable QP370C, QP371C and QP393C

For Custodial Supervisor Use Only					
	Custodial Issues Addressed				
	Custodial Issues Not Addressed				
-					

On October 6, 2009 I conducted an assessment of Portable QP370C, QP371C and QP393C at **Indian Ridge 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. 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 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 754-321-1900.

cc:	Dr. Leontine Butler, Area Superintendent						
	Jan Beal, Area Director						
	Jeffrey S. Moquin, Executive Director, Support Operations						
	Aston Henry, Supervisor, Risk Management						
	James Carballo, Project Manager, Facilities and Construction Management						
	Ralph Eckhardt, 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						
	Robert Krickovich, Coordinator, LEA, Facilities and Construction Management						
ES/tc							
Enc.							

			IAQ As	sessment	Location Number	3471
	Indi	an Ridge Middl	e School		Evaluation Requested	September 29, 2009
Time of Day	3:30 pm				Evaluation Date	October 6, 2009
Outdoor Condi	tions Ten	nperature	92.3	Relative Humidity	57.1 Ambie	ent CO2 425
Fish 1	Temperature	Range Rela	tive Humidity	Range	CO2 Rar	nge # Occupants
QP370C	75.5 7	/2 - 78	52.8	30% - 60%	1206 Max 700	> Ambient 4
Noticeable Od	or No		Visible water nage / staining	Visible micro ? growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Homaso	te	No	No		None
Flooring	12 x 12 Vi	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	Νο	No			
HVAC Supply	Grills Yes	Νο	No			
HVAC Return	Grills Yes	Νο	No			
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

Observations

Findings:

- Non-approved chemicals in room - can of Glade air freshener

- Dust build up on window blinds

Recommendations:

Site Based Maintenance:

- Remove non-approved chemicals from room - can of Glade air freshener

- Clean window blinds to remove dust build up

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

			IAQ Ass	sessment	Location Number	3471
	Indi	an Ridge Middl	e School		Evaluation Requested	September 29, 2009
Time of Day [3:30 pm				Evaluation Date	October 6, 2009
Outdoor Condi	itions Ten	nperature	92.3	Relative Humidity	57.1 Ambie	ent CO2 425
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Rar	nge # Occupants
QP371C	77.4 7	/2 - 78	42.7	30% - 60%	2847 Max 700	> Ambient 4
Noticeable Od	lor No		/isible water age / staining	Visible micro ? growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Homaso	te	No	No		None
Flooring	12 x 12 Vi	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	Νο	No			
HVAC Supply	Grills Yes	Νο	No			
HVAC Return	Grills Yes	Νο	No			
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

Observations

Findings:

- Non-approved chemicals in room - air freshener

- Dust build up on cabinet near A/C shaker unit
- CO2 level was elevated at the time of the assessment

Recommendations:

Site Based Maintenance:

- Remove non-approved chemicals from room - air freshener

- Clean window blinds to remove dust build up

- 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 HVAC system for proper operation and repair as appropriate to lower CO2 level

			IAQ Ass	sessment	Location Number	3471
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Outdoor Condi	tions Ten	nperature	92.3	Relative Humidity	57.1 Ambie	ent CO2 425
Fish	Temperature	Range Relat	tive Humidity	Range	CO2 Rar	nge # Occupants
QP393C	77.3	/2 - 78	53.3	30% - 60%	462 Max 700	> Ambient 2
Noticeable Od	lor Yes		/isible water age / staining	Visible micro ? growth?	bial Amount o material affeo	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Homaso	te	No	No		None
Flooring	12 x 12 Vi	nyl	No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	Yes	Νο	No			
HVAC Supply	Grills Yes	Νο	No			
HVAC Return	Grills Yes	No	No			
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom Yes	No	No			

Observations

Findings:

- Odor from non-approved chemicals in room - 3 air fresheners

- Dust and debris on A/C filter - North shaker unit

Recommendations:

Site Based Maintenance:

- Remove non-approved chemicals from room - air fresheners

- Remove and replace A/C filter - North shaker unit

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