

managing risk with responsibility

Aston A. Henry, Supervisor
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January 26, 2	2012 Signature	on File For Custodial Supervisor Use Only
TO:	Ms. Gail Silig, Principal Griffin Elementary School	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Richard Rosa, Project Manager Facilities and Construction Manage	ement
SUBJECT:	Indoor Air Quality (IAQ) Assessme	ent

On October 3, 2011 I conducted an assessment at **Griffin 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: Area Superintendent

Area Directors Shelley Meloni, Executive Director, Facilities and Construction Management Mark Dorsett, Acting Director, Physical Plant Operations Division, Maintenance Sonja Coley, Project Manager III, Facilities and Construction Management Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division Aston Henry, Supervisor, Risk Management Broward Teachers Union Federation of Public Employees

RR/tc Enc.

			IAQ Ass	sessment	Location Number	2851
	G	riffin Elementar	y School		Evaluation Requested	September 23, 2011
Time of Day	1:30 PM				Evaluation Date	October 3, 2011
Outdoor Condi	itions Ten	nperature	90.3	Relative Humidity	47.5 Ambie	nt CO2 445
	Temperature	Range Rela	tive Humidity	Range	CO2 Ran	ige # Occupants
004/005	75.1	/2 - 78	56.7	30% - 60%	838 Max 700	> Ambient
Noticeable Od	lor No		Visible water hage / staining	Visible microl ? growth?	bial Amount o material affec	-
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywal		No	No		None
Flooring	12 x 12 Vir	ıyl	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 No	Yes	Yes		Clean as appropri	ate
HVAC Return	Grills No	Yes	Yes		Clean as appropri	ate
Ceiling at Sup Grills	ply No	Yes	Yes		Clean as appropri	ate
Surfaces in Ro	oom Yes	No	No			

Findings

- Advised by staff the chemical plant located next door delivers a foul odor in the morning and outdoor activities are postponed until the odor fades.

- No signs of water intrusion or microbial growth
- Dust build up inside HVAC supply and return drops in corridors
- Odor coming from AHU's that service FISH 004 and 005 units are only two years old

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:

- Clean HVAC supply and return drops in corridors
- Evaluate AHU that services FISH 004 and 005 to identify possible odor source

- NOTE: Work orders EQ02203 and EQ02205 generated 11/7/2011

			IAQ Ass	sessment	Location Number	2851
	G	riffin Elementar	y School		Evaluation Requested	September 23, 2011
Time of Day	1:30 PM				Evaluation Date	October 3, 2011
Outdoor Condi	itions Ten	nperature	90.3	Relative Humidity	47.5 Ambie	nt CO2 445
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ran	ige # Occupants
101	73.3 7	2 - 78	50.6	30% - 60%	856 Max 700	> Ambient
Noticeable Od	lor No		/isible water hage / staining	Visible microl ? growth?	bial Amount o material affec	-
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywall		No	No		None
Flooring	Carpet		Yes	No	100	square feet
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	No	Yes	Yes		Remove and repla	ace
HVAC Supply	Grills Yes	No	No			
HVAC Return	Grills No	Yes	Yes		Clean as appropri	ate
Ceiling at Sup Grills	oply Yes	No	No			
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate

Findings

- Water damage flooring in this room and principals office (carpet)

- Dust build up on HVAC return grills and on horizontal surfaces

Site Based Maintenance:

- Clean HVAC return grills and horizontal surfaces throughout the room

- 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:

- Remove carpet in FISH 101 and replace with tile
- Remove and replace carpet in principals office

- NOTE: Work order EQ02206 generated 11/7/2011

			IAQ Ass	sessment	Location Number	2851
	G	Friffin Elementar	y School		Evaluation Requested	September 23, 2011
Time of Day	1:30 PM]			Evaluation Date	October 3, 2011
Outdoor Condi	itions Ten	nperature	90.3	Relative Humidity	47.5 Ambie	nt CO2 445
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ran	ge # Occupants
164	75.2	72 - 78	60.1	30% - 60%	1047 Max 700	> Ambient
Noticeable Od	lor No		/isible water hage / staining	Visible microl ? growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywall/Par	tition	No	No		None
Flooring	Carpet		Yes	No	540	square feet
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	No	No			
Walls	Yes	No	No			
Flooring	No	Yes	Yes		Remove and repla	nce
HVAC Supply	Grills Yes	No	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

Findings

- Water damage flooring (carpet)
- Dust build up on surfaces throughout the room
- Humidity level was slightly elevated at the time of the assessment

Site Based Maintenance:

- Clean surfaces throughout the room
- 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:

- Remove and replace carpet
- Evaluate HVAC system for proper operation and repair as appropriate to lower humidity level

- NOTE: Work orders EQ02205 and EQ02206 generated 11/7/2011

			IAQ Ass	sessment	Location Number	2851
	G	riffin Elementar	y School		Evaluation Requested	September 23, 2011
Time of Day	1:30 PM				Evaluation Date	October 3, 2011
Outdoor Condi	itions Ten	nperature	90.3	Relative Humidity	47.5 Ambie	nt CO2 445
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ran	ige # Occupants
180A	73.2 7	2 - 78	63.2	30% - 60%	810 Max 700	> Ambient
Noticeable Od	lor No		/isible water hage / staining	Visible microl ? growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywall/Par	tition	No	No		None
Flooring	Carpet		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	No	No			
HVAC Return	Grills No	Yes	Yes		Clean as appropri	ate
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom Yes	No	No			

Findings

- Dust build up on HVAC return grills

- Dust build up on HVAC filters in Remove and replace HVAC filters in AHU that services 180A and 180B.

- Humidity level was slightly elevated at the time of the assessment

Site Based Maintenance:

- Clean HVAC return grills

- Remove and replace HVAC filters in AHU that services 180A and 180B.

- 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 humidity level

- NOTE: Work order EQ02205 generated 11/7/2011

			IAQ Ass	sessment	Location Number	2851
	G	riffin Elementar	y School		Evaluation Requested	September 23, 2011
Time of Day	1:30 PM				Evaluation Date	October 3, 2011
Outdoor Condi	itions Ten	nperature	90.3	Relative Humidity	47.5 Ambie	nt CO2 445
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ran	ige # Occupants
180B	72.8	/2 - 78	55	30% - 60%	915 Max 700	> Ambient
Noticeable Od	lor No		/isible water hage / staining	Visible micro ? growth?	bial Amount o material affec	
Ceiling Type	2 x 4 Lay	In	No	No		None
Wall Type	Drywall/Par	tition	No	No		None
Flooring	Carpet		No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action Re	equired
Ceiling	Yes	Νο	No			
Walls	Yes	No	No			
Flooring	Yes	Νο	No			
HVAC Supply	Grills Yes	No	No			
HVAC Return	Grills No	Yes	Yes		Clean as appropri	ate
Ceiling at Sup Grills	oply Yes	No	No			
Surfaces in Ro	oom Yes	No	No			

Findings

- Dust build up on HVAC return grills

- Dust build up on HVAC filters in Remove and replace HVAC filters in AHU that services 180A and 180B.

- Humidity level was slightly elevated (compared to outside) at the time of the assessment

Site Based Maintenance:

- Clean HVAC return grills

- Remove and replace HVAC filters in AHU that services 180A and 180B.

- 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 humidity level

- NOTE: Work order EQ02205 generated 11/7/2011