



Jeffrey S. Moquin, Director Risk Management Department Telephone: 754-321-3200 Facsimile: 754-321-3290

September 21, 2005

Signature on File

- TO: Mr. Chris Carney, Principal Bennett Elementary School
- FROM: Kenneth I. Partee, Project Manager, Occupational Health and Environmental Control Risk Management Department
- SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 704, 705, 706 and 707

On August 15, 2005 the IAQ Assessment Team conducted an assessment of FISH 704, 705, 706 and 707 at **Bennett Elementary School**. The evaluation consisted of a walkthrough of the identified areas to assess the current condition of the location with regard to indoor air quality. This assessment included observations of the carpet, floor tile, ceiling tile, interior walls, false ceiling plenum, and accessible ventilation equipment.

Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if needed.

Generally, the IAQ Assessment did not identify any existing conditions significantly impacting IAQ and thereby presenting immediate health and safety concerns 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.

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. Verda Farrow, Area Superintendent
Dr. Roberta Insel, Area Director
Jeffrey S. Moquin, Director, Risk Management
Dave A. Archer, Project Manager III, Facilities and Construction Management
Jerrod Neal, Broward Teachers Union
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

KP/tc Enc.

			IAQ As	sessment	Locat	ion Number	0201	
	Ben	nett Elementar	y School		Evalua	tion Requested	August	11, 2005
Time of Day 1	0:00 am					Evaluation Date	August	15, 2005
Outdoor Condition	s Tem	perature 8	9.2	Relative Hun	nidity 73.	8 Ambie	nt CO2	501
Fish Tem	perature F	Range Relat	ive Humidity	Range	CO2	Ran	ige #	Occupants
704/707	72.4 7 2	2 - 78	76.7	30% - 60%	493	Max 700	> Ambient	2
Noticeable Odor	Yes		isible water age / staining		microbial owth?	Amount of mat affected	terial	
Ceiling Type	2 X 4 Lay	In	Yes	Y	′es		6' x 10'	
Wall Type	Drywall		No		No		None	
Flooring	Tile		No		No		None	
	Clean	Minor Dust / Debris	Needs Cleaning	l	Corre	ective Action Re	equired	
Ceiling	Νο	Yes	Yes		Rep	lace as appropi	riate	
Walls	Νο	Yes	Yes		Clean wi	th Wexcide disi	infectant	
Flooring	Νο	Yes	Yes		C	lean and sanitiz	ze	
HVAC Supply Grill	ls No	Yes	Yes		Clean wi	th Wexcide disi	infectant	
HVAC Return Grill	s No	Yes	Yes		Clean wi	th Wexcide disi	infectant	
Ceiling at Supply Grills	Νο	Yes	Yes		Rep	lace as appropi	riate	
Surfaces in Room	Νο	Yes	Yes		Cle	ean as appropria	ate	

Observations

Findings: EQ00467

- Visible microbial growth on AHU in FISH 704 and 707
- AHU's in FISH 704 and 707 leaking
- Ceiling tiles are saturated and falling from ceiling (FISH 704 and 707)
- Dust and debris on HVAC supply and return grills (FISH 704 and 707)
- Dust and debris on floor (FISH 704 and 707)
- Humidity level elevated

Recommendations:

Site Based Maintenance:

- Clean walls with Wexcide disinfectant solution
- Clean HVAC supply and return grills with Wexcide disinfectant solution
- Clean and sanitize floor

- 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 Division:

- Evaluate and repair/replace AHU's in FISH 704 and 707 for microbial growth and leaks
- Replace ceiling tiles as necessary for staining, water damage, etc.
- Evaluate and repair HVAC system to lower humidity level

			IAQ As	sessment	Location N	umber	0201	
	Ber	nett Elementar	y School		Evaluation F	Requested	August	11, 2005
Time of Day 1	0:00 am				Evalu	ation Date	August	15, 2005
Outdoor Condition	s Tem	perature 8	39.2	Relative Humidity	73.8	Ambie	nt CO2	501
Fish Tem	perature F	Range Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants
705	75 7	2 - 78	69.8	30% - 60%	568	Max 700	> Ambient	: 1
Noticeable Odor	No		/isible water age / staining	Visible micro g? growth?		ount of ma affected	terial	
Ceiling Type	2 X 4 Lay	In	Yes	No		3 C	eiling tiles	
Wall Type	Drywall		No	No			None	
Flooring	Tile		No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective	Action Re	equired	
Ceiling	Νο	Yes	Yes		Replace a	as appropi	riate	
Walls	Yes	No	No					
Flooring	Νο	Yes	Yes		Clean	and sanitiz	e	
HVAC Supply Grill	s No	Yes	Yes	C	lean with We	excide dis	infectant	
HVAC Return Grill	s No	Yes	Yes	C	lean with We	excide dis	infectant	
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	Yes	No	No					

Observations

Findings: Book Storage

- Stained ceiling tiles (left rear of room)
- Dust and debris on HVAC supply and return grills
- Dust and debris on floor
- Humidity level elevated

Recommendations:

Site Based Maintenance:

Remove and replace stained ceiling tiles

Clean HVAC supply and return grills with Wexcide disinfectant solution

Clean and sanitize floor

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 Division: - Evaluate and repair HVAC system to lower humidity level

			IAQ As	sessment	Location Number	0201
	Be	nnett Elementa	ry School		Evaluation Requested	August 11, 2005
Time of Day	10:00 am]			Evaluation Dat	e August 15, 2005
Outdoor Condi	itions Ter	nperature	89.2	Relative Humidity	73.8 Amb	ient CO2 501
Fish	Temperature	Range Rela	ative Humidity	Range	CO2 Ra	ange # Occupants
706	78.2	72 - 78	71	30% - 60%	590 Max 70	0 > Ambient 1
Noticeable Oc	lor No		Visible water nage / staining	Visible micro g? growth?		
Ceiling Type	2 X 4 Lay	/ In	Yes	No	3	ceiling tiles
Wall Type	Drywa	I	No	No		None
Flooring	Tile		No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action F	Required
Ceiling	No	Yes	Yes		Replace as appro	priate
Walls	Yes	No	No			
Flooring	Yes	No	No			
HVAC Supply	Grills No	Yes	Yes	C	lean with Wexcide di	sinfectant
HVAC Return	Grills No	Yes	Yes	C	lean with Wexcide di	sinfectant
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom Yes	No	No			

Observations

Findings:

- Stained ceiling tiles

- Dust and debris on HVAC supply and return grills

- Humidity level and temperature elevated
- Cooper water line in false ceiling plenum dripping

Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tiles

- Clean HVAC supply and return grills with Wexcide disinfectant solution

- 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 Division:

- Evaluate and repair/replace cooper water line in false ceiling plenum for dripping

- Evaluate and repair HVAC system to lower temperature and humidity level