

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

September 21, 2005 Signature on File

TO: Mr. Sidney Ditkowsky, Principal

Atlantic West Elementary School

FROM: Kenneth I. Partee, Project Manager, Occupational Health and Environmental

Control

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 308 and 669C

On August 31, 2005 the IAQ Assessment Team conducted an assessment of FISH 308 and 669C at **Atlantic West 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. Joanne Harrison, Area Superintendent

Sharon Airaghi, Area Director

Jeffrey S. Moquin, Director, Risk Management

Philip Kaufold, Project Manager II, Facilities and Construction Management

Ruby Fitzgerald, Broward Teachers Union

Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1

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Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

KP/tc Enc.

	Atl	antic West Elen	nentary School	Evaluation Requested Aug				31, 2005
Time of Day	11:45 a	m			I	Evaluation Date	August 3	31, 2005
Outdoor Condi	itions	Temperature	92.6	Relative Humidit	y 51.6	6 Ambie	nt CO2	491
Fish	Temperatu	^e Range	Relative Humidit	y Range	CO2	Ran	ge # (Occupants
308	78.8	72 - 78	79.3	30% - 60%	548	Max 700	> Ambient	2
Noticeable Odor Yes		Visible water damage / stainir		Visible microbial ? growth?		Amount of material affected		
Ceiling Type	2 X 4 Lay In		Yes	Yes		Entire Room		
Wall Type	Drywall/Tackable		No	Yes	Yes		75% of the room	
Flooring		Tile	No	No			None	
	Clea	n Minor I / Deb			Corre	ctive Action Re	equired	
Ceiling	No	Yes	Yes		Repl	lace all ceiling t	tiles	
Walls	Ne	Yes	Yes		Clean wit	th Wexcide disi	infectant	
Flooring	Ye	s No	No					
HVAC Supply	Grills N	Yes	Yes		Clean wit	th Wexcide disi	infectant	
HVAC Return	Grills No	Yes	Yes		Clean wit	th Wexcide disi	infectant	
Ceiling at Sup Grills	ply No	Yes	Yes		Repl	lace all ceiling t	tiles	
Surfaces in Ro	oom Ne	Yes	Yes		Cle	an as appropri	ate	

IAQ Assessment

2511

August 31, 2005

Location Number Evaluation Requested

Observations

Findings: (Previously notified 8/31/05)

- Visible microbial growth on ceiling tiles throughout the room
- Visible microbial growth on drywall and tackable walls
- Visible microbial growth on light covers
- Dust and debris on HVAC supply and return grills
- Humidity level and temperature elevated

Recommendations:

Site Based Maintenance:

- Clean drywall with Wexcide disinfectant solution
- 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 for leaks and replace ceiling tiles as appropriate
- Evaluate for leaks and repair/replace tackable walls as appropriate
- Evaluate and clean or replace light covers
- Evaluate and repair HVAC system to lower temperature and humidity level

Atlantic West Elementary School					ol_	Evaluation Requested August 31			31, 2005		
Time of Day	12:15	pm						E	Evaluation Date	August	31, 2005
Outdoor Cond	litions	Tem	perature	92.6		Relative Hun	nidity	51.6	Ambie	ent CO2	491
Fish	Temperat	ure F	Range	Relative Hur	nidity	Range		CO2	Rar	nge #	Occupants
669C	77.8	7	2 - 78	60.7		30% - 60%		1560	Max 700	> Ambient	0
Noticeable Odor Yes			Visible w damage / st		Visible gr	micro	bial	Amount of ma affected			
Ceiling Type	2 2	2 X 4 Lay In		Yes		Yes			2 ceiling tiles		
Wall Type		Drywall		No		No			75% of the room		
Flooring		Tile		No]		No			None	
	Cle	ean	Minor D / Debr		eds aning			Correc	ctive Action Re	equired	
Ceiling		No	Yes] <u>Y</u>	es		Rep	olace ce	iling tiles as a	ppropriate	
Walls		No	Yes] <u>Y</u>	es			Clea	an as appropri	ate	
Flooring	Y	es /	No		lo						
HVAC Supply	Grills [No	Yes] <u>Y</u>	es		CI	lean wit	h Wexcide dis	infectant	
HVAC Return	Grills [No	Yes] <u>Y</u>	es		CI	lean wit	h Wexcide dis	infectant	
Ceiling at Sup Grills	oply [No	Yes] [Y	es			Clea	an as appropri	ate	
Surfaces in R	oom [No	Yes	Y	es			Clea	an as appropri	ate	

IAQ Assessment

2511

Location Number

Observations

Findings: (Previously notified 8/31/05)

- Visible microbial growth on 2 ceiling tiles
- Dust and debris on walls
- Rust on light covers
- Dust and debris on HVAC supply and return grills and on ceiling at supply grills
- Humidity level and temperature elevated only one A/C unit on
- Dust and debris on HVAC filters
- Dust and debris on HVAC coils

Recommendations:

Site Based Maintenance:

- Clean drywall as appropriate
- Clean HVAC supply and return grills and ceiling at supply grills with Wexcide disinfectant solution
- Operate both A/C units and adjust temperature to 72-78 degrees and keep vents set to fresh air in order to lower the CO2 level
- Remove and replace HVAC filters
- 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 for leaks and replace ceiling tiles and light covers as appropriate
- Evaluate HVAC unit and clean coils as appropriate