

## managing risk with responsibility

Aston A. Henry, Supervisor Telephone: 754 321-1900 Risk Management Department Fax: 754 321-1917

January 4, 2011 Signature on File

TO: Mr. Chuck McCanna, Principal

Nova Blanche Forman Elementary School

FROM: Aston A. Henry, Supervisor

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 101, 101A, 132 and 150

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

On September 15, 2010 I conducted an assessment of FISH 101, 101A, 132 and 150 at **Nova Blanche Forman Elementary 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. Joel Herbst, Area Superintendent

Steven Friedman, Area Director

Jeffrey S. Moquin, Executive Director, Support Operations

Scott Gillen, Project Manager, Facilities and Construction Management

Diane Watts, 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

AH/tc Enc.

		IAQ As	sessment	<b>Location Number</b>	1282	
Nova B	lanche Forman Elem	entary School		<b>Evaluation Requested</b>	September 1, 2010	
Time of Day 12	2:45 pm			<b>Evaluation Date</b>	September 15, 2010	
<b>Outdoor Conditions</b>	Temperature	89.4	Relative Humidity	67.1 Ambie	nt CO2 382	
Fish Tempe	erature Range	Relative Humidity	Range	CO2 Ran	ge # Occupants	
101/101A 7	<b>71.9 72 - 78</b>	55.1	30% - 60%	744 Max 700	> Ambient	
Noticeable Odor	Yes	Visible water damage / staining	Visible micro growth?	7 0	eted	
Ceiling Type	2 x 4 Lay In	No	No		None	
Wall Type	Drywall	No	No		None	
Flooring	Carpet	Yes	No	Er	ntire Area	
	Clean Minor D	ris Cleaning		Corrective Action Re	equired	
Ceiling	Yes No	No				
Walls	Yes No	No				
Flooring	No	Yes	Ev	aluate for replacemen	t with tile	
HVAC Supply Grills	Yes No	No				
HVAC Return Grills	Yes No	No				
Ceiling at Supply Grills	Yes No	No				
Surfaces in Room	Yes No	No				
Observations						
Findings - Elevated moisture carpet.	content in carpet of F	SH 101 and 101A.	Carpet has been c	leaned an extracted. O	dor emanating from	
Site Based Maintenan - Continue to monitor appropriate		signs of microbial (	growth as well as du	st and debris accumula	tion and clean as	
Physical Plant Operat - Remove carpet in F	i <mark>ions:</mark> TSH 101 and 101A a	nd replace with tile				
NOTE: Work order EQ01456 generated						

1282

No	ova Bl	anche Fo	rman Elem	entary School		Evaluat	ion Requested	September 1, 2010
Time of Day	12:	45 pm	]			i	Evaluation Date	September 15, 201
Outdoor Condi	tions	Te	mperature	89.4	Relative Hu	midity 67.	I Ambie	ent CO2 382
	_							
	Tempe		Range	Relative Humic		CO2	Ran	
132		4.9	72 - 78 -	65.1	30% - 60%	1032		> Ambient 22
Noticeable Od	or L	Yes		Visible wat damage / stait		e microbial rowth?	Amount o material affect	
Ceiling Type		2 x 4 Lay	/ In	No	Ď	No		None
Wall Type		Drywa	II	No		No		None
Flooring		Carpet	t	No	Γ	No		None
			<u> </u>		_			
		Clean	Minor Debi			Corre	ctive Action Re	equired
0.33		Vac			~`			
Ceiling		Yes	No	No				
Walls		Yes	No	No				
Flooring		Yes	No	No	<u>,                                     </u>			
HVAC Supply	Grills	Yes	No	_ No				
HVAC Return	Grills	Yes	No	No	<u> </u>			
Ceiling at Sup Grills	ply	Yes	No	No				
Surfaces in Ro	om	Yes	No	No	<u> </u>			
L Observations								
Findings								
- Visible microbi			e cabinets,	chairs and other	er items			
- Humidity level	was e	elevated						
Site Based Main								
- Wipe down file cabinets, chairs and other items in room with Wexcide disinfectant solution								
<ul> <li>Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate</li> </ul>								
Physical Plant Operations: - Evaluate HVAC system for proper operation and repair as appropriate to lower humidity level								
NOTE: Work order EQ01455 generated								

**IAQ Assessment** 

1282

**Location Number** 

Nova Blar	nche Forman Elemen	tary School		Evaluation Re	equested September 1, 2010
Time of Day 12:4	5 pm			Evalua	September 15, 2010
Outdoor Conditions	Temperature	89.4 R	elative Humidity	67.1	Ambient CO2 382
Fish Tempera 150 74.		elative Humidity 50.4 30	Range 0% - 60%	<b>CO2</b> 910	Range # Occupants Max 700 > Ambient 19
Noticeable Odor	No	Visible water lamage / staining?	Visible micro growth?		Amount of Iterial affected
Ceiling Type 2	2 x 4 Lay In	No	No		None
Wall Type	Drywall	No	No		None
Flooring 12	2 x 12 Vinyl	No	No		None
С	lean Minor Dus / Debris			Corrective	Action Required
Ceiling [	Yes No	No			
Walls [	Yes No	No			
Flooring [	Yes No	No			
HVAC Supply Grills [	Yes No	No			
HVAC Return Grills [	No	Yes	CI	ean with We	excide disinfectant
Ceiling at Supply [Grills	Yes No	No			
Surfaces in Room [	Yes No	No			
bservations					
Findings - No signs of water intru - Minor dust build up on Site Based Maintenance - Clean HVAC return gr	n HVAC return grill	fectant solution	wth as well as du	st and debris	accumulation and clean as

**IAQ Assessment** 

1282

**Location Number**