

managing risk with responsibility

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January 14, 2009	Signature on File	For Custodia
		Custodial

TO: Mr. Chuck McCanna,, Principal

Nova Blanche Forman Elementary School

FROM: Edward See, Project Manager

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 147, 147B and 147C

For	Custodial Supervisor Use Only
	Custodial Issues Addressed
	Custodial Issues Not Addressed
- 91	

On November 14, 2008 I conducted an assessment of FISH 147, 147B and 147C 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 appropriate action has been taken 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. 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 754-321-3200.

Dr. Leontine Butler, Area Superintendent
 Dr. Desmond Blackburn, Area Director
 Jeffrey S. Moquin, Executive Director, Support Operations
 Scott Gillen, Project Manager, Facilities and Construction Management
 Diane Watts, Broward Teachers Union
 Roy Jarrett, National Federation of Public and Private 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.

Nova Bla	nche Forman Elem	entary School		Evaluation	Requested	October	27, 2008
Time of Day				Eval	luation Date	Novembe	r 14, 2008
Outdoor Conditions	Temperature	73.2	Relative Humidity	54.6	Ambien	t CO2	410
Fish Tempera 147 70.		Relative Humidity	Range 30% - 60%	CO2 931	Rang Max 700 >		Occupants 10
Noticeable Odor	No	Visible water damage / staining	Visible micro	bial A	— mount of mate affected	rial	
Ceiling Type	2 x 4	Yes	No No			iling tile	
Wall Type Dr	ywall/Plaster	No	No		N	one	
Flooring 1:	2 x 12 vinyl	No	No		ı	None	
С	lean Minor D / Debri			Correctiv	e Action Req	uired	
Ceiling [No Yes	Yes	Remo	ove and rep	olace stained	ceiling til	е
Walls [Yes No	No					
Flooring [Yes No	No					
HVAC Supply Grills [Yes No	No					
HVAC Return Grills [Yes No	No					
Ceiling at Supply [Yes No	No					
Surfaces in Room [Yes No	No					
Observations							
Findings: - 1 stained ceiling tile							
Recommendations:							
Site Based Maintenandure Remove and replace substitution - Continue to monitor the appropriate	stained ceiling tile	gns of microbial g	rowth as well as dus	and debris	s accumulation	n and clear	n as

IAQ Assessment

1282

Location Number

Nova	Blanche For	man Elementar	y School		Evaluati	ion Requested	October	27, 2008
Time of Day					E	Evaluation Date	Novembe	er 14, 2008
Outdoor Condition	ns Tem	perature 7	'3.2	Relative Humi	dity 54.6	Ambie	nt CO2	410
Fish Tem	perature	Range Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants
147B	71.7	72 - 78	82	30% - 60%	793	Max 700	> Ambient	2
Noticeable Odor	Yes	_	/isible water lage / staining		nicrobial wth?	Amount of mat affected	terial	
Ceiling Type	2 x 4		Yes	N	0	1 c	eiling tile	
Wall Type	Drywall/Pla	ster	No	No	0		None	
Flooring	12 x 12 vir	nyl	No	N	0		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	quired	
Ceiling	No	Yes	Yes	Phy	sical Plant C	Operations rep	lace ceiling	g tile
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply Gri	lls Yes	No	No					
HVAC Return Gri	ls Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	n No	Yes	Yes		Clea	an as appropria	ate	

IAQ Assessment

1282

Location Number

Observations

Findings:

- Humidity level was elevated. FCM recently completed HVAC project.
- Minor microbial growth on items throughout the room (cabinet, shelves, etc.) Occupant advised baseball caps discarded.
- 1 stained ceiling tile requiring cut and 1 broken ceiling tile
- HVAC supply grill not installed properly gaps

Recommendations:

Site Based Maintenance:

- Remove and replace broken ceiling tile
- Clean environmental surfaces throughout the room and wipe down items to remove microbial growth.
- 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 stained ceiling tile requiring cut
- Evaluate HVAC supply and repair/replace as appropriate

Facilities and Construction Management (FCM):

- Contractor was sent out to site.

			IAQ Ass	sessment	Location Number	1282		
N	ova Blanche F	Forman Elemen	itary School		Evaluation Requested	October 27, 2008		
Time of Day					Evaluation Date	November 14, 2008		
Outdoor Condi	tions Te	emperature [73.2	Relative Humidity	54.6 Ambie	ent CO2 410		
Fish	Temperature	Range Re	elative Humidity	Range	CO2 Rar	nge # Occupants		
147C	73.6	72 - 78	75.8	30% - 60%	753 Max 700	> Ambient 2		
Noticeable Od	lor No	d	Visible water lamage / staining	Visible microl growth?	bial Amount of ma affected	terial		
Ceiling Type	2 x 4	4	No	No		None		
Wall Type	Drywall/F	laster	No	Yes	Fil	e cabinet		
Flooring	12 x 12	vinyl	No	No		None		
	Clean Minor Dust Needs Corrective Action Required / Debris Cleaning							
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	ply No	Yes	Yes		Clean as appropri	ate		
Surfaces in Ro	oom No	Yes	Yes		Clean as appropri	ate		
bservations								
Findings: - Humidity level was elevated. FCM recently completed HVAC project Minor microbial growth on items throughout the room (file cabinet, bean bags, light grid, board games, etc.) Recommendations:								
Site Based Maintenance: - Clean ceiling at HVAC supply grills - Clean environmental surfaces throughout the room and wipe down items to remove microbial growth Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate								

Facilities and Construction Management (FCM):
- Contractor was sent out to site.