

managing risk with responsibility

Aston A. Henr Risk Managen	ry, Supervisor nent Department	Telephone: Fax:	754 321-1900 754 321-1917	
June 22, 2009	Signature on File	For Custodial S	upervisor Use Only	
TO:	Mr. Donald Cottrell, Principal Broadview Elementary School		ues Addressed ues Not Addressed	
FROM:	Edward See, Project Manager Risk Management Department			
SUBIECT:	Indoor Air Quality (IAQ) Assessment			

On March 31, 2009 I conducted an assessment of FISH 148, 149 and 150 at **Broadview 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. 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. Leontine Butler, Area Superintendent

Dr. Desmond Blackburn, Area Director

FISH 148, 149 and 150

Jeffrey S. Moquin, Executive Director, Support Operations

Aston A. Henry, Supervisor, Risk Management

Henry Verdugo, Project Manager, Facilities and Construction Management

Gary Itzkowitz, 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

ES/tc Enc.

	Broad	view Elementary	/ School		Evaluati	on Requested	March 18, 2009
Time of Day	11:30 am				E	valuation Date	March 31, 2009
Outdoor Conditi	ons Tem	perature 8	4.7	Relative Hun	nidity 70.3	Ambier	nt CO2 363
Fish Te 148 Noticeable Odo Ceiling Type	71.8	2 - 78 V	ive Humidity 58.7 isible water age / staining	? gro	1043 microbial owth?	Amount of material affect	> Ambient 1
Wall Type	Drywall/Pla	ster	Yes	1	No	Window and \	Windowsill - North
Flooring	12 x 12 Vii	nyl	No	1	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	quired
Ceiling	No	Yes	Yes		Rep	lace ceiling tile	es
Walls	No	Yes	Yes		Eva	aluate and repa	iir
Flooring	Yes	No	No				
HVAC Supply G	Grills Yes	No	No				
HVAC Return G	rills Yes	No	No				
Ceiling at Supp Grills	ly Yes	No	No				
Surfaces in Roc	om Yes	No	No				

IAQ Assessment

0811

Location Number

Observations

Findings:

- Visible water damage/staining around window and windowsill North wall
- 3 stained ceiling tiles with visible microbial growth

Recommendations:

Site Based Maintenance:

- Remove and replace stained ceiling tiles and monitor for return of staining. If stains return contact COMPASS to generate a work order for Physical Plant Operations to evaluate.
- 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 cause of damaged/staining around window and windowsill on North wall and repair as appropriate. Repair/replace wall material as necessary.

	Broad	<u>/iew Elementar</u>	y School		⊏vaiuāti	on Requested [March 18, 2009
Time of Day [11:30 am				E	valuation Date [March 31, 2009
Outdoor Condi	tions Tem	perature 8	4.7	Relative Humidity	70.3	Ambier	nt CO2 363
Fish	Temperature _F	Range Relat	ive Humidity	Range	CO2	Rang	ge # Occupants
149		2 - 78	56.7	30% - 60%	1451		- Ambient 25
Noticeable Od	lor No		'isible water age / staining'	Visible micro growth?		Amount of material affect	ed
Ceiling Type	2 x 4		No	No			None
Wall Type	Drywall/Plas	ster	No	No	[ı	None
Flooring	12 x 12 Vir	nyl	No	No			None
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	tive Action Re	quired
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 Yes	No	No				
Surfaces in Ro	oom Yes	No	No				
bservations							
Findings: - CO2 level was	s slightly elevated	d at the time of	he assessme	nt			
- CO2 level was slightly elevated at the time of the assessment Recommendations: 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: - Evaluate HVAC system for proper operation and repair as appropriate to lower CO2 level							

IAQ Assessment

0811

Location Number

	Broadview Ele	mentary School		Evaluation Requested	March 18, 2009		
Time of Day 11:	Time of Day 11:30 am Evaluation Date March 31, 2009						
Outdoor Conditions	Temperatur	e 84.7	Relative Humidity	70.3 Ambie	nt CO2 363		
Fish Tempe 150 Noticeable Odor Ceiling Type	73 Range No 2 x 4	Relative Humidity 47.5 Visible water damage / staining	30% - 60% Visible microl		> Ambient 2		
	Drywall/Plaster	Yes	No	@ 2 square	feet - baseboard		
	12 x 12 Vinyl	No	No		None		
	Clean Minor Dust Needs Corrective Action Required						
Ceiling	No Ye	Yes		Install missing ceilin	g tile		
Walls	No Ye	Yes		Evaluate and repa	air		
Flooring	Yes	o No					
HVAC Supply Grills	Yes	o No					
HVAC Return Grills	Yes	o No					
Ceiling at Supply Grills	Yes	o No					
Surfaces in Room	Yes	No					
Observations							
Findings:							
Visible water damagMissing ceiling tile	je/staining on @ 2	square feet of baseb	ooard - Northwest co	rner of room			
Recommendations: Site Based Maintenance: - Replace missing ceiling tile - 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 cause of damaged/stained baseboard (Northwest corner of room) and repair as appropriate. Repair/replace							
baseboard material as	_	accocara (normwest	Some or room, and	торан аз арргорнате.	торинлерівоє		

IAQ Assessment

0811

March 18, 2009

Location Number

Evaluation Requested