

managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

August 10, 2005

TO: Ms. Gwen Batie, Principal

Sunland Park Elementary School

FROM: Robert J. Krickovich, Coordinator, LEA

Facilities and Construction Management, Environmental Division

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 118, 121, 125, 129, 129B and 130

On August 1, 2005 the IAQ Assessment Team conducted an assessment of FISH 118, 121, 125, 129, 129B and 130 at **Sunland Park 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 754-321-1638.

cc: Dr. Verda Farrow, Area Superintendent Kevin Sawyer, Area Director

Jeffrey S. Moquin, Director, Risk Management

Rodney Williams, Project Manager II, Facilities and Construction Management

Dane Ramson, Broward Teachers Union

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

Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

RK/tc Enc.

	Sunland Park	Ev	valuation Requested	July 29, 2005	
Time of Day 1	2:40 pm			Evaluation Date	August 1, 2005
Outdoor Condition	s Tempera	eture 90.4	Relative Humidity	70.2 Ambien	t CO2 565
Fish Temp	^{perature} Rang	e Relative Humidit	y Range C	O2 Rang	je # Occupants
118	73.9 72 - 7	8 45.9	30% - 60% 7	726 Max 700 >	Ambient 2
Noticeable Odor	No	Visible water damage / stainir	Visible microbia ng? growth?	al Amount of mate affected	erial
Ceiling Type	2 x 4 Lay In	No	No		None
Wall Type	rywall/Tackboard	No	No	1	lone
Flooring	12 x 12 Vinyl	No	No		None
		nor Dust Needs Debris Cleanin	f ·	Corrective Action Rec	quired
Ceiling	Yes	No No			
Walls	Yes	No No			
Flooring	Yes	No No			
HVAC Supply Grill	s Yes	No No			
HVAC Return Grill	s Yes	No			
Ceiling at Supply Grills	Yes	No No			
Surfaces in Room	Yes	No No			

Observations

Findings:

- Raid bug spray, 409 cleaner, Lysol disinfectant and spray wood stain found in cabinet over sink

Recommendations:

- Site Based Maintenance:
 Remove all non-approved chemicals from building
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Project Manager:

- Expedite IAQ project

Sunland Park Elementary School Evaluation Rec	July 29, 2005
Time of Day 12:40 pm Evaluat	ion Date August 1, 2005
Outdoor Conditions Temperature 90.4 Relative Humidity 70.2	Ambient CO2 565
Fish Temperature Range Relative Humidity Range CO2	Range # Occupants
	Max 700 > Ambient 2
Noticeable out in the particular and the second of the sec	ınt of material affected
Ceiling Type 2 x 4 Lay In No No	None
Wall Type Drywall/Tackboard Yes No	Around all windows
Flooring 12 x 12 Vinyl No No	None
Clean Minor Dust Needs Corrective A	ction Required
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 Supply Yes No No Grills	
Surfaces in Room Yes No No	
Dbservations	
Findings: - Exterior wall is severely water damaged and windows leak severely Recommendations:	
Site Based Maintenance: - Continue to monitor this location for any signs of microbial growth as well as dust and debris ac appropriate	cumulation and clean as
Project Manager: - Expedite IAQ project to repair/replace windows and repair walls	

	Sunlan	nd Park Eleme	ntary School		Evaluati	ion Requested J	uly 29, 2005	
Time of Day	12:40 pm				E	Evaluation Date Au	ıgust 1, 2005	
Outdoor Condi	tions Te	emperature	90.4	Relative Humidity	70.2	Ambient CO	2 565	
Fish	Temperature	Range	Relative Humidity	Range	CO2	Range	# Occupants	
125	73.2	72 - 78	46.2	30% - 60%	739	Max 700 > Amb	pient 2	
Noticeable Odor No			Visible water Visible micro damage / staining? growth?		bial	Amount of material affected		
Ceiling Type	2 x 4 La	ay In	No	No	ļ	None		
Wall Type	Drywall/Tackboard		No			None		
Flooring	12 x 12 \	Vinyl	No	No		None		
	Clean	Minor Du / Debris		ı	Correc	ctive Action Required	d	
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 Supp Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					
bservations								
Eindinger			•	•				

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- Storage room (FISH 125A) has carpet that is stained, rippled and water damaged.

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 Division:

Replace carpet in FISH 125A (storage room) with tile

Project Manager:

Expedite IAQ project

	Sunland Park Eler	nentary School		Evaluation Reque	Sted July 29, 2005
Time of Day 12	:40 pm			Evaluation	Date August 1, 2005
Outdoor Conditions	Temperature	90.4	Relative Humidity	70.2	Ambient CO2 565
Fish Tempe	erature Range	Relative Humidity	' Range	CO2	Range # Occupants
129 7	72 - 78	66	30% - 60%	641 Ma	x 700 > Ambient 2
Noticeable Odor	No	Visible water damage / staining	Visible micro g? growth?		of material ected
Ceiling Type	2 x 4 Lay In	Yes	No	At fire sp	orinkler over emergency exit
Wall Type Dr	ywall/Tackboard	Yes	No	At emerge	ency exit doors & windows
Flooring	3' x 3' Vinyl	No	No		None
	Clean Minor I		ı	Corrective Acti	on Required
Ceiling	Yes	No			
Walls	Yes	No			
Flooring	Yes	No			
HVAC Supply Grills	Yes	No			
HVAC Return Grills	Yes	No			
Ceiling at Supply Grills	Yes	No			
Surfaces in Room	Yes No	No			

Observations

Findings:

- Water damaged wall board at emergency exit doors and windows
- Stained ceiling tiles at fire sprinkler over emergency exit door
- All windows leak and walls around windows are water damaged
- Elevated humidity level

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 Division:

- Evaluate and repair leaking fire sprinkler and replace ceiling tiles as appropriate
- Evaluate and repair HVAC system to lower humidity level

Project Manager:

- Expedite IAQ project to repair/replace windows and repair walls

Sunland Park Elementary School Evaluation Requested July 29, 2005 Time of Day 12:40 pm Evaluation Date August 1, 2005 Outdoor Conditions Temperature 90.4 Relative Humidity 70.2 Ambient CO2 565

Range

30% - 60%

Relative Humidity

73.2

Visible water

damage / staining?

CO₂

653

Visible microbial

growth?

Occupants

2

Range

Amount of material

affected

Max 700 > Ambient

Ceiling Type	2 x 4 Lay	In	Yes	No	At paint booth
Wall Type	Drywall/Tack	board	No	No	
Flooring	12 x 12 Vir	nyl	No	No	None
	Clean	Minor Dust / Debris	Needs Cleaning	Corre	ctive Action Required
Ceiling	Yes	No	No		
Walls	Yes	No	No		
Flooring	Yes	No	No		
HVAC Supply (Grills Yes	No	No		
HVAC Return C	Grills Yes	No	No		
Ceiling at Supp Grills	oly Yes	No	No		
Surfaces in Ro	om Yes	No	No		

Observations

Findings:

- · Water damaged sink cabinet backsplash (90% moisture content)
- Ceiling grid is rusty
- Stained ceiling tiles at paint booth around exhaust vent

Temperature

71.2

No

Range

72 - 78

Fish

129B

Noticeable Odor

- Elevated humidity level

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 Division:

- Evaluate and repair/replace water damaged sink cabinet and recaulk as appropriate
- Evaluate paint booth
- Evaluate and repair roof leak around exhaust vent and check operation of back draft damper in vent
- Evaluate and repair/repaint ceiling grid
- Evaluate and repair HVAC system to lower humidity level

Project Manager:

- Expedite IAQ project

	Sunl	and Park Elem	entary School		Evaluat	ion Requested	July 2	29, 2005
Time of Day	12:40 pm	1			E	Evaluation Date	Augus	st 1, 2005
Outdoor Condi	tions	Temperature	90.4	Relative Humidity	70.2	2 Ambie	nt CO2	565
Fish []]	Temperature	Range	Relative Humidity	['] Range	CO2	Ran	ge #	# Occupants
130	74.9	72 - 78	64.6	30% - 60%	607	Max 700	> Ambien	nt 2
Noticeable Od	or No		Visible water damage / staining	Visible micro g? growth?		Amount of mat affected	erial	
Ceiling Type	2 x 4	Lay In	No	No			None	
Wall Type	Drywall/1	ackboard	Yes	No		Around	all windo	ws
Flooring	Carpe	t/Wood	No	No			None	
	Clean	Minor D		ı	Correc	ctive 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 Supp Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Observations

Findings:

- All windows leak and walls around windows are water damaged
- Elevated humidity level

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 Division:

- Evaluate and repair HVAC to lower humidity level

Project Manager:

- Expedite IAQ project to repair/replace windows and repair walls