

managing risk with responsibility

eJeffrey S. Moquin, Director Risk Management Department Telephone: 754-321-3200 Facsimile: 754-321-3290

August 22, 2007	Signature on File
TO:	Ms. Marisol Smith, Principal West Hollywood Elementary School
FROM:	Edward See, Project Manager Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment Portable 164N, 622P, 873C, 1105PK, 1117PK

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

On August 17, 2007 I conducted a follow-up assessment of Portable 164N, 622P, 873C, 1105PK and 1117PK at **West Hollywood Elementary School**. The assessment consisted of a reevaluation walkthrough of the previously identified area to assess the current condition of the location with regard to indoor air quality. This assessment included reviewing previously generated work orders as well as observation of the area of concern as stated in the IAQ Assessments performed on April 27, 2007. Attached are the findings of this assessment along with recommendations for further assessment, remediation, or corrective actions, if needed.

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 754-321-3200.

cc: Dr. Joel Herbst, Area Superintendent Valerie Wanza, Area Director Jeffrey S. Moquin, Director, Risk Management Rodney Williams, 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.

			IAQ As	sessment	Location Numb	oer O	161
	West Hollyv	vood Elementa	ry School		Evaluation Requ	uested Au	igust 16, 2007
Time of Day					Evaluatio	on Date Au	igust 17, 2007
Outdoor Cond	itions Terr	perature	86.5	Relative Humidity	87.2	Ambient CO	2 463
Fish	Temperature	Range Rela	ative Humidity	Range	CO2	Range	# Occupants
P-164N	71.4 7	2 - 78	41.9	30% - 60%	591 M	ax 700 > Am	bient 1
Noticeable Oc	dor Yes		Visible water nage / staining	Visible micro growth?		nt of material ffected	
Ceiling Type	Wood Pane	eling	Yes	No		1 Pane	I
Wall Type	Tackable	e	Yes	No		North Wa	all
Flooring	Vinyl		No	No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Ac	tion Require	d
Ceiling	No	Yes	Yes	F	Repair/replace c	ceiling mater	ial
Walls	Yes	Νο	No				
Flooring	Yes	Νο	No				
HVAC Supply	Grills Yes	Νο	No				
HVAC Return	Grills Yes	No	No				
Ceiling at Sup Grills	ply Yes	No	No				
Surfaces in Ro	oom Yes	No	No				

Findings:

- Visible staining on 1 ceiling panel
- Small gap at East door between door and frame
- One damaged floor tile at West door
- Visible staining on North wall under dry erase board and on board. Moisture content is not elevated.
- Elevated moisture content in South wall (18% WME) under A/C unit. Wall reveals signs of previous water damage. Possible drain pan leak.

-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 cause of stained ceiling panel and repair as appropriate. Repair/replace ceiling material as appropriate.

- Evaluate gap at East door between door and frame and repair as appropriate to prevent water intrusion and introduction of outside air

- Remove and replace damaged floor tile at West door

- Evaluate cause of elevated moisture content in South wall under A/C unit and staining on North wall under dry erase board and repair as appropriate. Repair/replace wall material as appropriate.

			IAQ As	sessment	Locat	ion Number	0161	
	West Holly	wood Elementar	y School		Evalua	ation Requested	August	16, 2007
Time of Day]				Evaluation Date	August	17, 2007
Outdoor Cond	litions Ten	nperature 8	6.5	Relative Hum	nidity 87.	2 Ambie	nt CO2	463
Fish		Range Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants
P-622P	73.2	72 - 78	51.6	30% - 60%	524	Max 700	> Ambient	4
Noticeable O	dor No		'isible water age / staining		microbial wth?	Amount of mat affected		
Ceiling Type	2 x 4 Lay	In	Yes	1	No	3 Ce	eiling Tiles	
Wall Type	Tackabl	е	Yes	Y	'es	1 sc	uare foot	
Flooring	Vinyl		No	1	No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ective Action Re	equired	
Ceiling	No	Yes	Yes		Replac	ce stained ceilin	g tiles	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	oply					N/A		
Surfaces in R	oom Yes	No	No					

Findings:

- Elevated moisture and visible microbial on wall under A/C unit

- A/C unit leaking
- 3 stained ceiling tiles

-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 cause of elevated moisture content and microbial growth on wall under A/C unit and repair as appropriate (appears to be leak from A/C unit). Repair/replace wall material as appropriate.

- Evaluate cause of stained ceiling tiles and repair as appropriate. Remove and replace ceiling tiles.

			IAQ As	sessment	Locati	on Number	0161	
	West Hollyv	vood Elementar	y School		Evaluat	tion Requested	August	16, 2007
Time of Day						Evaluation Date	August	17, 2007
Outdoor Cond	itions Terr	perature 8	6.5	Relative Humic	dity 87.2	2 Ambie	nt CO2	463
Fish	Temperature	Range Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants
P-873C	73.1 7	2 - 78	52.7	30% - 60%	580	Max 700	> Ambient	t 1
Noticeable Oc	lor No		/isible water age / staining	Visible m g? grow		Amount of mat affected	terial	
Ceiling Type	2 x 4 Lay	In	Yes	No	•	2 L	ight Grids	
Wall Type	Tackable	e	No	No	,		None	
Flooring	Vinyl		No	No	,		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	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 Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	Νο	No					

Findings:

- 2 rusted light grids above South A/C wall unit

- Small gap at East door between door and frame

- Elevated moisture content in East wall (23% WME) under dry erase board. Wall reveals signs of previous repair.

-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 cause of rusted light grids above South A/C wall unit and repair as appropriate. Replace light grids.

- Evaluate gap at East door between door and frame and repair as appropriate to prevent water intrusion and introduction of outside air

- Evaluate cause of elevated moisture content in East wall under dry erase board and repair as appropriate. Repair/replace wall material as appropriate.

			IAQ As	sessment	Location Nur	nber	0161	
	West Holly	wood Elementa	ary School		Evaluation Re	quested	August	16, 2007
Time of Day	8:45 am]			Evalua	tion Date	August	17, 2007
Outdoor Cond	itions Ter	nperature	86.5	Relative Humidity	87.2	Ambie	nt CO2	463
Fish	Temperature	Range Re	lative Humidity	Range	CO2	Ran	ge #	Occupants
P-1105PK	71	72 - 78	51.9	30% - 60%	580	Max 700	> Ambien	t
Noticeable Oc	dor Yes] da	Visible water mage / staining	Visible micro growth?		unt of mat affected	terial	
Ceiling Type	4 x 10 Pa	nels	Yes	Yes		6 A/C 3	Supply Gril	ls
Wall Type	Wood		No	No			None	
Flooring	Vinyl		No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective A	Action Re	quired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills No	Yes	Yes	C	lean with Wex	cide disi	nfectant	
HVAC Return	Grills No	Yes	Yes	C	lean with Wex	cide disi	nfectant	
Ceiling at Sup Grills	oply Yes	No	No					
Surfaces in R	oom Yes	No	No					

Findings:

- Dust and debris, rust and microbial growth on all HVAC supply and return grills
- Bathroom has no exhaust fan
- Temperature was low at the time of the assessment

-Recommendations:

Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution until PPO can facilitate replacement

- Adjust thermostat to increase temperature

- 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 rust and microbial growth on A/C supply and return grills and repair as appropriate. Remove and replace all supply and return grills.

- Evaluate need for exhaust fan in restroom

			IAQ As	sessment	Locatio	on Number	0161	
	West Holly	/wood Elemer	ntary School		Evaluati	on Requested	August	16, 2007
Time of Day					E	valuation Date	August	17, 2007
Outdoor Cond	itions Te	mperature	86.5	Relative Humidi	ty 87.2	Ambie	nt CO2	463
Fish	Temperature	Range R	elative Humidity	Range	CO2	Ran	ige #	Occupants
P-1117PK	72.6	72 - 78	53	30% - 60%	556	Max 700	> Ambient	21
Noticeable Oc	dor No] .	Visible water lamage / staining	Visible mic ? growt		Amount of main affected	terial	
Ceiling Type	3 x 10 Pa	anels	Yes	Yes] [4	Panels	
Wall Type	Wood	k	No	No] [None	
Flooring	Vinyl		No	No			None	
	Clean	Minor Dus / Debris			Correc	tive Action Re	equired	
Ceiling	No	Yes	Yes		Repair/re	eplace ceiling i	material	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills No	Yes	Yes		Clean with	h Wexcide disi	infectant	
HVAC Return	Grills No	Yes	Yes		Clean with	h Wexcide disi	infectant	
Ceiling at Sup Grills	oply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Findings:

- Visible staining on ceiling material in bathroom

- Visible staining and microbial growth on ceiling material on North side of room

- Dust and debris, rust and microbial growth on all HVAC supply and return grills

-Recommendations:

Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution until PPO can facilitate replacement - 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 stained ceiling in bathroom and stained ceiling with visible microbial growth on North side of room and repair as appropriate. Repair/replace ceiling material as appropriate.

- Evaluate cause of rust and microbial growth on A/C supply and return grills and repair as appropriate. Remove and replace all supply and return grills.