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July 25, 2005

TO:	Ms. Marion Fee, Principal Lakeside Elementary School
FROM:	Kenneth I. Partee, Project Manager, Occupational Health and Environmental Control Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment Portable 1169VE, 1253VE and 1281VE

On July 12, 2005 the IAQ Assessment Team conducted an assessment of Portable 1169VE, 1253VE and 1281VE at **Lakeside 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 754-321-3200.

cc: Sam Gregg, Area Superintendent Pat Dixon, Area Director Jeffrey S. Moquin, Director, Risk Management Angelino Garcia, Project Manager II, Facilities and Construction Management Steve Feldman, Broward Teachers Union 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

KP/tc Enc.

IAQ Assessment									
	Lakesi	de Elementa	ry School		Evaluat	ion Requested	July 7	7, 2005	
Time of Day	2:00 pm				E	Evaluation Date	July 12	2, 2005	
Outdoor Condition	s Temp	erature	93.1	Relative Hun	nidity 62.5	Ambie	nt CO2	519	
Fish Temp	perature Ra	ange Rela	ative Humidity	Range	CO2	Ran	ige #	Occupants	
1169VE	75.7 72	- 78	49.1	30% - 60%	537	Max 700	> Ambient	3	
Noticeable Odor	Yes		Visible water nage / staining		e microbial owth?	Amount of mat affected	terial		
Ceiling Type	Stucco Type	9	Yes		No	2' >	x 2' Areas		
Wall Type	II Type Tackable		Yes		No	Various			
Flooring	Tile		No		No		None		
	Clean	Minor Dust / Debris	Needs Cleaning		Correc	ctive Action Re	equired		
Ceiling	Νο	No	Yes		Cle	ean and/or pair	nt		
Walls	Νο	Νο	Yes						
Flooring	Yes	No	No						
HVAC Supply Grill	s Yes	No	No						
HVAC Return Grill	s No	Yes	Yes		Clean wit	h Wexcide disi	infectant		
Ceiling at Supply Grills	Yes	No	No						
Surfaces in Room	Yes	Νο	No						

Observations

Findings:

- Ceiling is stained (forward and rear)
- High moisture content in tackable wall surfaces throughout the portable (60-90 on protimeter)
- Dust and debris on HVAC return grills
- Dust and debris on HVAC filters

Recommendations:

Site Based Maintenance:

- Clean HVAC return grills with Wexcide disinfectant solution
- Replace HVAC filters

- 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 cause of stained ceiling and repair as appropriate
- Evaluate cause of high moisture content in walls and repair/replace as appropriate

IAQ Assessment									
Lakeside Elementary School					Evaluat	July 7, 2005			
Time of Day	2:00 pm					Evaluation Date	July 12	, 2005	
Outdoor Conditions Temperature 93.1 Relative Humidity 62.5 Ambient CO2 519									
Fish 7	Femperature	Range Rela	ative Humidity	Range	CO2	Ran	ige # C	Occupants	
1253VE	7	2 - 78		30% - 60%		Max 700	> Ambient	3	
Noticeable Od	or No		Visible water nage / staining		e microbial owth?	Amount of mat affected	terial		
Ceiling Type	Stucco Ty	pe	Yes		No	<u> </u>	/arious		
Wall Type	Tackable	9	No		No	None			
Flooring	Tile		No		No		None		
Ceiling Walls Flooring HVAC Supply (HVAC Return (Ceiling at Supp	Grills Yes	Minor Dust / Debris No No No No	Needs Cleaning Yes No No No No			ctive Action Re ained sections	•		
Grills Surfaces in Ro		No	No						

Observations

Findings:

Ceiling is stained (5 sections) Ceiling is stained in bathroom around exhaust fan

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 cause of stained ceiling throughout portable and in restroom and repair as appropriate

IAQ Assessment									
	Lake	eside Elementary	/ School		Evaluat	ion Requested	July 7	, 2005	
Time of Day	2:00 pm				I	Evaluation Date	July 12	2, 2005	
Outdoor Conditio	ons Ten	perature 9	3.1	Relative Humi	idity 62.5	Ambie	nt CO2	519	
Fish Te	mperature	Range Relat	ive Humidity	Range	CO2	Ran	ge #	Occupants	
1281VE	74.1 7	2 - 78	49.3	30% - 60%	527	Max 700	> Ambient	3	
Noticeable Odor	Yes		isible water age / staining?		nicrobial wth?	Amount of mat affected	terial		
Ceiling Type	Stucco Ty	ре	No	N	0		None		
Wall Type	Wall Type Tackable		No		0	None			
Flooring	Tile		No	N	0	None			
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	equired		
Ceiling	Yes	Νο	No						
Walls	Yes	Νο	No						
Flooring	Νο	Yes	Yes		Replac	e bathroom flo	ooring		
HVAC Supply G	rills Yes	No	No						
HVAC Return Gr	ills Yes	Νο	No						
Ceiling at Supply Grills	y No	Yes	Yes		Cle	an as appropria	ate		
Surfaces in Room	m Yes	No	No						

Observations

Findings:

- Flooring at door is warped and coming up (trip hazard)
- Paneling at seams is warped
- Dust and debris on ceiling at supply grills
- Bathroom flooring is saturated with urine (bad odor)

Recommendations:

Site Based Maintenance:

- Call in a work order to address flooring and paneling

- Clean ceiling at HVAC supply grills

- 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 flooring in bathroom