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Signature on File

TO:	Tom Lindner, Director
	Physical Plant Operations Zone 1

- FROM: Robert J. Krickovich, Coordinator, LEA Facilities and Construction Management, Environmental Division
- SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 203, 205, 217, 224 and 229

On June 19, 2006 I conducted an assessment of FISH 203, 205, 217, 224 and 229 at **Physical Plant Operations Zone 1**. 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.

In addition to the above rooms that a written assessment was generated for, the following rooms were visually inspected and there was found to be no signs of water intrusion: FISH 202, 206, 206A, 207, 209, 210, 211, 215, 218, 221, 222, 223, 225, 230 and C004.

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.

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: Jeffrey S. Moquin, Director, Risk Management Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1 Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division

RK/tc Enc.

			IAQ As	sessment	Location	Number		
	Physical I	Plant Operation	ns - Zone 1		Evaluation	Requested	June	19, 2006
Time of Day	1:00 pm]			Eva	Iuation Date	June	19, 2006
Outdoor Condi	tions Te	mperature	89.7	Relative Humidit	y 63.2	Ambie	nt CO2	484
Fish	Temperature	Range Re	elative Humidity	Range	CO2	Ran	nge #	^e Occupants
203	73.4	72 - 78	53.1	30% - 60%	726	Max 700	> Ambien	t 1
Noticeable Od	or No] da	Visible water amage / staining	Visible mic ? growth	-	mount of ma affected	terial	
Ceiling Type	2 x 2 La	y In	Yes	No		1 c	eiling tile	
Wall Type	Drywa	ll	Yes	No		Right	of window	1
Flooring	Carpe	t	No	No			None	
	Clean	Minor Dus / Debris	t Needs Cleaning		Correctiv	ve Action Re	equired	
Ceiling	No	Yes	Yes		Repla	ace ceiling ti	ile	
Walls	Νο	Yes	Yes		Repair/rep	lace as appi	opriate	
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	Νο	No					
HVAC Return	Grills Yes	Νο	No					
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Findings:

- Severe water damage to wall and ceiling to the right side of the window

- 1 stained ceiling tile in FISH 204 (alcove between 203 and 205)

- Old microbial staining above ceiling in front of FISH 203 where skylight was removed

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 tiles and repair. Replace stained ceiling tiles as appropriate.

- Evaluate cause of water damaged wall to the right of the window and repair. Repair/replace wall material as appropriate. - Clean ceiling tile in front of where skylight was removed with Wexcide disinfectant solution

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

			IAQ As	sessment	Location Number	
	Physical P	Plant Operations	- Zone 1		Evaluation Request	ed June 19, 2006
Time of Day	1:00 pm]			Evaluation D	ate June 19, 2006
Outdoor Condi	itions Ter	nperature 8	39.7	Relative Humidity	63.2 Am	nbient CO2 484
Fish	Temperature	Range Rela	tive Humidity	Range	CO2	Range # Occupants
205	76.8	72 - 78	47.8	30% - 60%	756 Max	700 > Ambient 2
Noticeable Od	lor No		/isible water nage / staining	Visible micro ? growth?	bial Amount of affec	
Ceiling Type	2 x 2 Lay	' In	Yes	No		1 ceiling tile
Wall Type	Drywal	l	No	No		None
Flooring	Carpet		No	No		None
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action	n Required
Ceiling	No	Yes	Yes		Replace ceilir	ng tile
Walls	Yes	No	No			
Flooring	Yes	Νο	No			
HVAC Supply	Grills Yes	No	No			
HVAC Return	Grills Yes	Νο	No			
Ceiling at Sup Grills	ply Yes	No	No			
Surfaces in Ro	oom Yes	No	No			

Findings:

- 1 stained ceiling tile

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 tile and repair. Replace stained ceiling tile as appropriate.

			IAQ Ass	sessment	Location	Number		
	Physical Pla	ant Operation	ns - Zone 1		Evaluation	Requested	June	19, 2006
Time of Day	1:00 pm				Eva	luation Date	June	19, 2006
Outdoor Condition	ns Tem	perature	89.7	Relative Humidity	63.2	Ambie	nt CO2	484
Fish Terr	nperature R	lange Re	lative Humidity	Range	CO2	Rar	nge #	[#] Occupants
217	72.1 7 2	2 - 78	55.4	30% - 60%	742	Max 700	> Ambien	t 2
Noticeable Odor	No	da	Visible water mage / staining	Visible micr ? growth		mount of ma affected	terial	
Ceiling Type	2 x 4 Lay I	n	No	No			None	
Wall Type	Drywall		No	No			None	
Flooring	12 x 12 Viny	yl	No	No			None	
	Clean	Minor Dust / Debris	t Needs Cleaning		Correctiv	ve Action Re	equired	
Ceiling	Yes	No	No					
Walls	No	Yes	Yes		Clean	as appropri	ate	
Flooring	Yes	No	No					
HVAC Supply Gri	lls No	Yes	Yes	(Clean with V	Vexcide dis	infectant	
HVAC Return Gri	lls Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Room	Yes	No	No					

Findings:

- Dust build up on wall over door in front of HVAC supply grill

- Dust and debris on HVAC supply grill

Recommendations:

Site Based Maintenance:

- Wipe down all wall surfaces to remove dust build up

- Clean HVAC supply grill with Wexcide disinfectant solution

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

		IAQ As	sessment	Location Number	
	Physical Plant Opera	ations - Zone 1		Evaluation Reque	sted June 19, 2006
Time of Day 1:	00 pm			Evaluation	Date June 19, 2006
Outdoor Conditions	Temperature	89.7	Relative Humidity	63.2 A	mbient CO2 484
Fish Tempe	erature Range	Relative Humidity	Range	CO2	Range # Occupants
224 7	74.9 72 - 78	46.7	30% - 60%	728 Max	c 700 > Ambient 1
Noticeable Odor	No	Visible water damage / staining	Visible micro g? growth?		of material ected
Ceiling Type	2 x 4 Lay In	No	No		None
Wall Type	Drywall	Yes	Yes		See below
Flooring	12 x 12 Vinyl	No	No		None
	Clean Minor I / Deb	ris Cleaning		Corrective Action	on Required
Ceiling	Yes	No			
Walls	No	Yes		Clean as app	ropriate
Flooring	Yes	No			
HVAC Supply Grills	Yes	No			
HVAC Return Grills	Yes	No			
Ceiling at Supply Grills	Yes	No			
Surfaces in Room	Yes	No			

Findings:

- Visible water staining on left wall from ceiling grid to desk. Visible microbial growth on left wall at ceiling line. Growth does not extend above ceiling line. Located in an area where a skylight was removed.

Recommendations:

Site Based Maintenance:

- Clean water stain and visible growth on left wall with Wexcide disinfectant solution.

- 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:

- Ensure that skylight is properly sealed to prevent water intrusion.

			IAQ Ass	sessment	Location	Number		
	Physical Pla	ant Operation	s - Zone 1		Evaluatio	n Requested	June	19, 2006
Time of Day	1:00 pm				Eva	aluation Date	June	19, 2006
Outdoor Condition	ns Tem	perature	89.7	Relative Humidit	y <u>63.2</u>	Ambie	nt CO2	484
Fish Ten	nperature R	lange Rel	lative Humidity	Range	CO2	Ran	nge #	Occupants
229	75.5 7 2	2 - 78	46.4	30% - 60%	713	Max 700	> Ambien	t 1
Noticeable Odor	No	da	Visible water mage / staining	Visible mic ? growth		Amount of ma affected	terial	
Ceiling Type	2 x 4 Lay I	n	Yes	No		Light	fixture len	S
Wall Type	Drywall		No	Yes		4 so	quare feet	
Flooring	12 x 12 Vin	yl	No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correcti	ve Action Re	equired	
Ceiling	Yes	No	No					
Walls	No	Yes	Yes		Clean	as appropri	ate	
Flooring	Yes	No	No					
HVAC Supply Gri	lls No	Yes	Yes		Clean with	Wexcide dis	infectant	
HVAC Return Gri	lls Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Roon	n Yes	No	No					

Findings:

- Visible microbial growth on wall where tackboard was removed

- Water staining on 1 light fixture lens

Recommendations:

Site Based Maintenance:

- Wipe down wall where tackboard was removed with Wexcide disinfectant solution

- Clean light fixture lens to remove water stain

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate