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February 22, 2013

Signature on File

TO: Henry Verdugo, Project Manager
Portfolio Management and Services

FROM: Robert Krickovich, Coordinator I, LEA
Facilities Design and Construction

SUBJECT: Indoor Air Quality (IAQ) Assessment

On February 14, 2013, Richard Rosa and I conducted an assessment at **Pioneer Middle - Cooper City Annex** as requested by your department. Attached are findings and recommendations for further assessment, remediation, or corrective actions needed.

The IAQ assessment did identify one or more existing conditions that could impact IAQ. Appropriate work orders will need to be generated by your department 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 future 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 note that we were unable to access two portables - 1049P and 1057P. Your department will need to generate work orders for Physical Plant Operations to evaluate these two units and repair as needed.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact us at 754-321-1907.

cc: Shelley Meloni, Executive Director, Facilities Design and Construction
Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division
Roy Norton, Manager, Custodial/Grounds, Physical Plant Operations Division
Aston Henry, Supervisor, Risk Management
Sonja Coley, Senior Project Manager, Facilities Design and Construction

RK/tc
Enc.

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
1056P	80.2	72 - 78	46.3	30% - 60%	460	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes	No	(2) stained ceiling tile		
Walls	Homasote / Tackboard		Yes	No	64 sq ft		
Floor	Carpet		No	No			

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	No	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit			Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

East and Middle AC unit wall panels are wet.

AC's were not on at time of assessment

Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tile after repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage to wall material	▼
Remove and replace wall material as necessary	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
1060PD	80.4	72 - 78	44.7	30% - 60%	469	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes		No		< 1 sq ft
Walls	Tack Board		Yes		No		32 sq ft
Floor	Carpet		Yes		No		various stains

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	No	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	No	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit		Mechanical Room Clean	N/A	
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼		Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼			

Observations

Wet panel under East AC.

Evaluate the need for sealing and painting the exterior.

AC's were off during assessment

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
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	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage to wall material	▼
Remove and replace wall material as necessary	▼
Evaluate and repair A/C units in all portables	▼
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	▼
	▼

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
1061PD	80.4	72 - 78	44.7	30% - 60%	469	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes		No		< 1 sq ft
Walls	Tack Board		Yes		No		32 sq ft
Floor	Carpet		Yes		No		various stains

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	No	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	No	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit			Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼			Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼				

Observations

Wet panel under East AC.

Evaluate the need for sealing and painting the exterior.

AC's were off during assessment

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
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Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage to wall material	▼
Remove and replace wall material as necessary	▼
Evaluate and repair A/C units in all portables	▼
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IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
1063CA	80.9	72 - 78	44.7	30% - 60%	457	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x 4'		No		No		
Walls	Tack Board		No		No		
Floor	Carpet / VCT		No		No		
Ceiling Clean	Yes	HVAC Supply Grills Clean		No	HVAC Return Grills Clean		No
Walls Clean	Yes	Inside of Supply Duct Clean		N/A	Inside of Return Duct Clean		N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean		Yes			
Room Surfaces Clean	No						
Trash Removed	N/A	Exhaust Fans Working		N/A	Unapproved Chemicals / Cleaners in Room		No
Signs of Pests	No	Drain Traps Wet		N/A	Air Fresheners in Room		No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers		N/A			
Mechanical Equipment Location						Mechanical Room Clean	
Filters Installed Properly		Filters Clean			Inside of HVAC Unit Clean		
Condensate Pan Clean		Cooling Coil Clean					
Fresh Air Intake Location	 ▼					Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	 ▼						

Observations

Administration	
Evaluate the need for sealing and painting the exterior.	
AC's were not running at time of assessment	

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

Evaluate exterior of portables for sealing	▼
and painting	▼
Evaluate and repair A/C units in all portables	▼
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IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
1065CX	80.4	72 - 78	30.4	30% - 60%	487	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes	No	(2) stained ceiling tiles		
Walls	Homasote / Tackboard		No	No			
Floor	Carpet		No	No			

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	Yes	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit			Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

AC's were not on at time of assessment

Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after roofing repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
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IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
1066CX	78.4	72 - 78	43.6	30% - 60%	464	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes		No		(1) stained ceiling tile
Walls	Homasote / Tackboard		No		No		
Floor	Carpet		No		No		

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	Yes	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit			Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

AC's were not on at time of assessment

Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tile after repair	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
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IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
1067CX	76.8	72 - 78	34.8	30% - 60%	449	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes	No	(4) stained ceiling tiles		
Walls	Homasote / Tackboard		No	No			
Floor	Carpet		No	No			
Ceiling Clean	No	HVAC Supply Grills Clean		No	HVAC Return Grills Clean		No
Walls Clean	Yes	Inside of Supply Duct Clean		N/A	Inside of Return Duct Clean		N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean		Yes			
Room Surfaces Clean	No						
Trash Removed	N/A	Exhaust Fans Working		N/A	Unapproved Chemicals / Cleaners in Room		No
Signs of Pests	No	Drain Traps Wet		N/A	Air Fresheners in Room		No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers		N/A			
Mechanical Equipment Location	Window unit					Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean		No	Inside of HVAC Unit Clean		N/A
Condensate Pan Clean	N/A	Cooling Coil Clean		N/A			
Fresh Air Intake Location	Window unit ▼					Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼						

Observations

Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tile after repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼
	▼
	▼
	▼

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
1069CX	76.1	72 - 78	43	30% - 60%	454	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes	No	(2) stained ceiling tiles		
Walls	Homasote / Tackboard		Yes	No	32 sq ft		
Floor	Carpet		No	No			

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	No	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	Yes	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit			Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

North AC unit wall panel is wet. Termite droppings on carpet
Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after roofing repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage to wall material	▼
Remove and replace wall material as necessary	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
1070CX	73.9	72 - 78	54	30% - 60%	466	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes	No	(1) stained ceiling tiles		
Walls	Homasote / Tackboard		No	No			
Floor	Carpet		No	No			
Ceiling Clean	No	HVAC Supply Grills Clean		No	HVAC Return Grills Clean		No
Walls Clean	Yes	Inside of Supply Duct Clean		N/A	Inside of Return Duct Clean		N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean		Yes			
Room Surfaces Clean	No						
Trash Removed	Yes	Exhaust Fans Working		N/A	Unapproved Chemicals / Cleaners in Room		No
Signs of Pests	No	Drain Traps Wet		N/A	Air Fresheners in Room		No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers		N/A			
Mechanical Equipment Location	Window unit					Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean		No	Inside of HVAC Unit Clean		N/A
Condensate Pan Clean	N/A	Cooling Coil Clean		N/A			
Fresh Air Intake Location	Window unit ▼					Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼						

Observations

Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tile after repair	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼
	▼
	▼
	▼

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
QP447CX	68	72 - 78	52	30% - 60%	427	MAX 700 > Ambient	
Noticeable Odor		Yes	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes		No		< 1 sq ft
Walls	Homasote / Tackboard		Yes		No		32 sq ft
Floor	12" x 12" Vinyl		No		No		

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	No	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	Yes	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit			Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

Ceiling staining by East AC. One wet wall panel on West wall(two panels in from the North). Insect wings on window sills and termite droppings on the floor in two locations. Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Call work order for pest control	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage	▼
Evaluate cleaning both HVAC coils	▼
Evaluate the exterior door weather stripping	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼

IAQ Assessment

Pioneer Middle Annex

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Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
QP452C	78	72 - 78	65.2	30% - 60%	502	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes		Yes		4 stained ceiling tiles
Walls	Tack Board		No		No		
Floor	Carpet / VCT		No		No		

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	Yes	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit		Mechanical Room Clean	N/A	
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

AC's were off during assessment

Microbial growth on some of the ceiling tiles.
Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tile after repairs	▼
Vacuum/wexcide window unit grills	▼
Minor dust on elevated surfaces	▼
Replace filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼
	▼
	▼
	▼

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Pioneer Middle Annex

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Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
QP1046P	76.8	72 - 78	64.7	30% - 60%	523	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes		No		2 stained ceiling tiles
Walls	Homasote / Tackboard		Yes		No		64 sq ft
Floor	Carpet		Yes		No		10 sq ft

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	No	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	No	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	Yes	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit			Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼			Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼				

Observations

AC's were off during assessment
Wet panels under East and West AC. Carpet wet under West AC. Bees are under the portable
Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage	▼
Remove and replace wall material as necessary	▼
Evaluate exterior of portable for sealing	▼
and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼
	▼

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
QP1047P	71	72 - 78	52	30% - 60%	847	MAX 700 > Ambient	
Noticeable Odor		Yes	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes		No		< 1 sq ft
Walls	Tack Board		Yes		No		64 sq ft
Floor	Carpet		No		No		

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	No	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit		Mechanical Room Clean	N/A	
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

Wet panels are under the Ac's

Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage to wall material	▼
Remove and replace wall material as necessary	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
QP1051P	79.3	72 - 78	44.4	30% - 60%	2099	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes	No	2 stained ceiling tiles		
Walls	Homasote / Tackboard		Yes	Yes	52 sq ft		
Floor	Carpet		No	No			

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	No	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit			Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

AC's were off during assessment

Wet panel under West AC.

Microbial growth on 20 sq ft of drywall above the marker board on East wall..

Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Thoroughly clean elevated surfaces	▼
Vacuum/wexcide window unit grills	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate and repair cause of water damage to wall material	▼
Remove and replace wall material as necessary	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
QP1052P	89	72 - 78	45.6	30% - 60%	998	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		No	No			
Walls	Homasote / Tackboard		Yes	No	32 sq ft		
Floor	Carpet		No	No			

Ceiling Clean	Yes	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	No	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit			Mechanical Room Clean	N/A
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

AC's were off during assessment

Wet panel under South AC.

Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Thoroughly clean elevated surfaces	▼
Vacuum/wexcide window unit grills	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of water damage	▼
to wall material	▼
Remove and replace wall material as necessary	▼
Evaluate exterior of portable for sealing	▼
and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼
	▼

IAQ Assessment

Pioneer Middle Annex

Evaluation Date

Time of Day

Outdoor Conditions Temperature

Relative Humidity

Ambient CO2

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
<input type="text" value="QP1055P"/>	<input type="text" value="82.4"/>	<input type="text" value="72 - 78"/>	<input type="text" value="73.8"/>	<input type="text" value="30% - 60%"/>	<input type="text" value="469"/>	<input type="text" value="MAX 700 > Ambient"/>	<input type="text"/>
Noticeable Odor		<input type="text" value="No"/>	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	<input type="text" value="2' x4'"/>		<input type="text" value="No"/>		<input type="text" value="No"/>		<input type="text"/>
Walls	<input type="text" value="Homasote / Tackboard"/>		<input type="text" value="Yes"/>		<input type="text" value="Yes"/>		<input type="text" value="10 linear feet"/>
Floor	<input type="text" value="Carpet"/>		<input type="text" value="No"/>		<input type="text" value="No"/>		<input type="text"/>

Ceiling Clean	<input type="text" value="Yes"/>	HVAC Supply Grills Clean	<input type="text" value="No"/>	HVAC Return Grills Clean	<input type="text" value="No"/>
Walls Clean	<input type="text" value="No"/>	Inside of Supply Duct Clean	<input type="text" value="N/A"/>	Inside of Return Duct Clean	<input type="text" value="N/A"/>
Flooring Clean	<input type="text" value="Yes"/>	Ceiling at Supply Grills Clean	<input type="text" value="Yes"/>		
Room Surfaces Clean	<input type="text" value="No"/>				

Trash Removed	<input type="text" value="N/A"/>	Exhaust Fans Working	<input type="text" value="N/A"/>	Unapproved Chemicals / Cleaners in Room	<input type="text" value="No"/>
Signs of Pests	<input type="text" value="No"/>	Drain Traps Wet	<input type="text" value="N/A"/>	Air Fresheners in Room	<input type="text" value="No"/>
Room Cluttered	<input type="text" value="No"/>	Food if Stored in Room is in Sealed Containers	<input type="text" value="N/A"/>		

Mechanical Equipment Location	<input type="text" value="Window unit"/>		Mechanical Room Clean	<input type="text" value="N/A"/>	
Filters Installed Properly	<input type="text" value="No"/>	Filters Clean	<input type="text" value="No"/>	Inside of HVAC Unit Clean	<input type="text" value="N/A"/>
Condensate Pan Clean	<input type="text" value="N/A"/>	Cooling Coil Clean	<input type="text" value="N/A"/>		

Fresh Air Intake Location	<input type="text" value="Window unit"/>	Fresh Air Intake Free of Obstruction	<input type="text" value="Yes"/>
Pollutant Sources Near Air Intake	<input type="text" value="Grass and landscape"/>		

Observations

AC's were off during assessment	
Approx. 10 linear feet of baseboard has microbial growth.	
Evaluate the need for sealing and painting the exterior.	

Corrective Actions to be Completed by Site Based Staff

Thoroughly clean elevated surfaces	<input type="text" value="▼"/>
Vacuum/wexcide window unit grills	<input type="text" value="▼"/>
Remove and replace A/C filters	<input type="text" value="▼"/>
	<input type="text" value="▼"/>
	<input type="text" value="▼"/>
	<input type="text" value="▼"/>
	<input type="text" value="▼"/>
	<input type="text" value="▼"/>

Corrective Actions to be Completed by PPO

Evaluate and repair cause of water damage	<input type="text" value="▼"/>
to wall material	<input type="text" value="▼"/>
Remove and replace wall material as necessary	<input type="text" value="▼"/>
Evaluate exterior of portable for sealing	<input type="text" value="▼"/>
and painting	<input type="text" value="▼"/>
Evaluate and repair A/C units in all portables	<input type="text" value="▼"/>
	<input type="text" value="▼"/>
	<input type="text" value="▼"/>

IAQ Assessment

Pioneer Middle Annex

Evaluation Date February 14, 2013

Time of Day 10:30

Outdoor Conditions Temperature 78.6

Relative Humidity 72.6

Ambient CO2 425

Fish	Temperature	Range	Relative Humidity	Range	CO ²	Range	# Occupants
QP1059	83.1	72 - 78	66.3	30% - 60%	484	MAX 700 > Ambient	
Noticeable Odor		No	Visible water damage / staining?		Visible microbial growth?		Amount of material affected
Ceiling	2' x4'		Yes		No		< 4 sq ft
Walls	Tack Board		No		No		
Floor	Carpet		No		No		

Ceiling Clean	No	HVAC Supply Grills Clean	No	HVAC Return Grills Clean	No
Walls Clean	Yes	Inside of Supply Duct Clean	N/A	Inside of Return Duct Clean	N/A
Flooring Clean	Yes	Ceiling at Supply Grills Clean	Yes		
Room Surfaces Clean	No				

Trash Removed	N/A	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests	No	Drain Traps Wet	N/A	Air Fresheners in Room	No
Room Cluttered	No	Food if Stored in Room is in Sealed Containers	N/A		

Mechanical Equipment Location	Window unit		Mechanical Room Clean	N/A	
Filters Installed Properly	No	Filters Clean	No	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A	Cooling Coil Clean	N/A		

Fresh Air Intake Location	Window unit ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	Grass and landscape ▼		

Observations

AC's were off during assessment

Evaluate the need for sealing and painting the exterior.

Corrective Actions to be Completed by Site Based Staff

Replace stained ceiling tiles after repairs	▼
Vacuum/wexcide window unit grills	▼
Thoroughly clean elevated surfaces	▼
Remove and replace A/C filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
Evaluate exterior of portable for sealing and painting	▼
Evaluate and repair A/C units in all portables	▼
	▼
	▼
	▼
	▼