## THE SCHOOL BOARD OF BROWARD COUNTY, FLORIDA ENVIRONMENTAL HEALTH & SAFETY DEPARTMENT

## **TELEPHONE (754) 321-4200**

## FACSIMILE: (754) 321-4285

August 17, 2	2017 Signature on File	For Custodial Supervisor Use Only	
TO:	Dr. Jason Nault, Principal <b>J.P. Taravella High</b>	Custodial Issues Addressed Custodial Issues Not Addressed	
FROM:	Daniel Meyer, Project Manger Environmental Health & Safety Department		
SUBJECT:	Indoor Air Quality (IAQ) Assessment		

On August 16, 2017, I conducted an assessment at **J.P. Taravella High School.** Attached are findings and recommendations for further assessment, remediation, or corrective actions 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. In an attempt to separate IAQ issues from general maintenance items, the attached assessment may contain direction for site based staff to generate a work order through COMPASS. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all site based custodial 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 us at 754-321-4200.

DM:smn Enc.

cc: Sam Bays, Director, Maintenance Operations Shelley Meloni, Director, Pre-Construction Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division Greg Neiman, Area Supervisor, Zone 1 Kurt Wirz, Area Manager Trades Gerald Devio, Supervisor II Custodial Benjamin Osborne, Supervisor II Custodial Mark Murray, Supervisor II Custodial Broward Teachers Union Federation of Public Employees

Taravella, J.P. High     Evaluation Date     August 16, 2017     Time of Day     1 PM       Outdoor Conditions     Temperature     91.4     Relative Humidity     78.7     Ambient CO2     425       Fish     Temperature     Range     Relative Humidity     Range     CO <sup>2</sup> Range     # Occupants       591C     80.1     72 - 78     75.8     30% - 60%     450     MAX 700 >     2       Noticeable Odor     Yes     Visible water damage / staining?     visible microbial growth?     Amount of material affected       Ceiling     2' X.4' Lay in     Yes     Yes     No     under a/c units + south window       Floor     12' X 12' Vinyl     No     No     No     Visible microbial growth?       Walls     Tack Board     Yes     Yes     Grills Clean     Yes       Floor     12' X 12' Vinyl     No     No     No     Yes       Valls Clean     Yes     Duct Clean     Yes     Grills Clean     Yes       Room Surfaces     Yes     Ceiling at Supply     No     Air Fresheners     No       Inside of Properly     Yes     Drain Traps Wet     NA     Air Fresheners     No       Signs of Pests     No     Food if Stored in Room is in Sealed Containers     N/A     Inside of HVAC Un		IAQ Assessr	ment		
Fish       Temperature       Range       Relative Humidity       Range       CO <sup>2</sup> Range       # Occupants         591C       80.1       72 - 78       75.8       30% - 60%       450       MAX 700 >       2         Noticeable Odor       Yes       Visible water damage / staining?       Visible microbial growth?       Amount of material affected         Ceiling       2' X 4' Lay in       Yes       Yes       8 tiles         Walls       Tack Board       Yes       No       under a/c units + south window         Floor       12" x 12" Vinyl       No       No          Ceiling Clean       Yes       HVAC Supply       Yes       HVAC Return Grills Clean       Yes         Flooring Clean       Yes       Inside of Supply       Yes       Inside of Return Yes       Duct Clean       Yes         Room Surfaces       Yes       Ceiling at Supply Grills Clean       No       No        Air Fresheners in Room       No         Signs of Pests       No       Drain Traps Wet       N/A       Air Fresheners in Room       No         Mechanical Equipment Location       Window unit       Yes       Filters Clean       Inside of HVAC Unit Clean       Yes         Fresh Air Intake       Cooling Coil G	Taravell	a, J.P. High Evaluation Dat	e August 16, 2017	Time of Day 1	PM
591C       80.1       72 - 78       75.8       30% - 60%       450       MAX 700 > 2         Noticeable Odor       Yes       Visible water damage / staining?       Visible microbial growth?       Amount of material affected         Ceiling       2' X 4' Lay in       Yes       Yes       8 tiles         Walls       Tack Board       Yes       No       under a/c units + south window         Floor       12" x 12" Vinyl       No       No       HVAC Supply         Ceiling Clean       Yes       HVAC Supply       Yes       HVAC Return Grills Clean       Yes         Flooring Clean       Yes       Inside of Supply       Yes       Inside of Return Grills Clean       Yes         Room Surfaces       Yes       Ceiling at Supply       No       No       Unapproved Chemicals / Cleaners in Room       Yes         Signs of Pests       No       Drain Traps Wet       N/A       Air Fresheners in Room       No         Mechanical Equipment Location       Window unit       Mechanical Room Clean       N/A         Filters Installed Properly       Yes       Filters Clean       Yes       Inside of HVAC Unit Clean       Yes         Condensate Pan Clean       Yes       Cooling Coil Clean       Yes       Inside of HVAC Unit Clean       Yes	Outdoor Conditions Tempera	ature 91.4 Relative	Humidity 78.7	Ambient CO2 42	25
Noticeable Odor       Yes       Instaining?       material affected         Ceiling       2' X 4' Lay in       Yes       8 tiles         Walls       Tack Board       Yes       No       under a/c units + south window         Floor       12' x 12'' Vinyl       No       No       HVAC Supply         Floor       12' x 12'' Vinyl       No       No       HVAC Return       Yes         Walls Clean       Yes       HVAC Supply       Yes       HVAC Return       Yes         Walls Clean       Yes       Inside of Supply       Yes       Inside of Return       Yes         Flooring Clean       Yes       Duct Clean       Yes       Inside of Return       Yes         Room Surfaces       Yes       Ceiling at Supply       No       No       Yes         Signs of Pests       No       Drain Traps Wet       N/A       Air Fresheners in Room       No         Mechanical Equipment Location       Window unit       Mechanical Room Clean       N/A       Inside of HVAC Unit Clean       Yes         Fresh Air Intake       Yes       Filters Clean       Yes       Inside of HVAC Unit Clean       Yes         Condensate Pan Clean       Yes       Cooling Coil Clean       Yes       Fresh Air Intake Free of			450	MAX 700 >	
Ceiling2 'X 4' Lay inYesYes8 tilesWallsTack BoardYesNounder a/c units + south windowFloor12" x 12" VinylNoNoNoCeiling CleanYesHVAC Supply Grills CleanYesHVAC Return Grills CleanYesWalls CleanYesInside of Supply Duct CleanYesInside of Return Duct CleanYesFlooring CleanYesCeiling at Supply Grills CleanNoNoYesCleanYesCeiling at Supply Grills CleanNoYesTrash RemovedYesExhaust Fans Working in Sealed ContainersN/AUnapproved Chemicals / Cleaners in RoomYesSigns of PestsNoDrain Traps Wet in Sealed ContainersN/AAir Fresheners in RoomNoMechanical Equipment LocationWindow unitYesInside of HVAC Unit CleanYesFresh Air Intake LocationWindow unitYesFresh Air Intake Free of ObstructionYesFresh Air IntakeNoNoYesYes	Noticeable Odor Yes				
Floor12" x 12" VinylNoNoCeiling CleanYesHVAC Supply Grills CleanYesHVAC Return Grills CleanYesWalls CleanYesInside of Supply Duct CleanYesInside of Return Duct CleanYesRoom Surfaces CleanYesCeiling at Supply Grills CleanNoYesInside of Return Duct CleanYesTrash Removed Signs of PestsYesExhaust Fans Working In Sealed ContainersN/AUnapproved Chemicals / Cleaners in RoomYesMechanical Equipment LocationWindow unitN/AMechanical Room CleanN/AFilters Installed Properly Condensate Pan CleanYesCooling Coil CleanYesFresh Air Intake LocationWindow unitYesFresh Air Intake Free of ObstructionYesFresh Air IntakeNoNoYesYes	Ceiling 2' X 4' Lay in		Yes	8 tiles	
Ceiling Clean       Yes       HVAC Supply Grills Clean       Yes       HVAC Return Grills Clean       Yes         Walls Clean       Yes       Inside of Supply Duct Clean       Yes       Inside of Return Duct Clean       Yes         Room Surfaces       Yes       Ceiling at Supply Grills Clean       No       Inside of Return Duct Clean       Yes         Trash Removed       Yes       Ceiling at Supply Grills Clean       No       Unapproved Chemicals / Cleaners in Room       Yes         Signs of Pests       No       Drain Traps Wet       N/A       Air Fresheners in Room       No         Mechanical Equipment Location       Window unit       Filters Clean       Yes       Inside of HVAC Unit Clean       Yes         Fresh Air Intake       Yes       Cooling Coil Clean       Yes       Inside of N/A       Yes       Yes         Fresh Air Intake       Yes       No       Yes       Yes       Yes       Yes       Yes         Fresh Air Intake       No       Yes       No       Yes       Yes       Yes       Yes         Fresh Air Intake       No       Yes       No       Yes       Yes       Yes       Yes         Fresh Air Intake       No       Yes       No       Yes       Yes       Yes	Walls Tack Board	Yes	No	under a/c units + south w	vindow
Walls CleanYesGrills CleanYesGrills CleanYesFlooring CleanYesInside of Supply Duct CleanYesInside of Return Duct CleanYesRoom Surfaces CleanYesCeiling at Supply Grills CleanNoNoTrash RemovedYesExhaust Fans WorkingN/AUnapproved Chemicals / Cleaners in RoomYesSigns of PestsNoDrain Traps WetN/AAir Fresheners in RoomNoRoom ClutteredNoFood if Stored in Room is in Sealed ContainersN/AMechanical Room CleanN/AFilters Installed ProperlyYesFilters CleanYesInside of HVAC Unit CleanYesFresh Air Intake LocationWindow unitYesYesYesYesFresh Air Intake LocationWindow unitYesYesYesNoNoYesYesYesYesPollutant Sources Near Air IntakeNoYesYesNoYesNoYesYesNoYesYesYesFresh Air Intake LocationWindow unitYesNoYesNoYes	Floor 12" x 12" Vinyl	No	No		
Flooring CleanYesInside of Supply Duct CleanYesInside of Return Duct CleanYesRoom Surfaces CleanYesCeiling at Supply 			Yes		Yes
CleanGrills CleanNOTrash RemovedYesExhaust Fans WorkingN/AUnapproved Chemicals / Cleaners in RoomYesSigns of PestsNoDrain Traps WetN/AAir Fresheners in RoomNoRoom ClutteredNoFood if Stored in Room is in Sealed ContainersN/AAir Fresheners in RoomNoMechanical Equipment LocationWindow unitMechanical Room CleanN/AFilters Installed ProperlyYesFilters CleanYesCondensate Pan CleanYesCooling Coil CleanYesFresh Air Intake LocationWindow unitVesFresh Air Intake Free of ObstructionYesPollutant Sources Near Air IntakeNoNoYes			Yes		Yes
Signs of PestsNoDrain Traps WetN/AAir Fresheners in RoomNoRoom ClutteredNoFood if Stored in Room is in Sealed ContainersN/AAir Fresheners in RoomNoMechanical Equipment LocationWindow unitMechanical Room CleanN/AFilters Installed ProperlyYesFilters CleanYesCondensate Pan CleanYesCooling Coil CleanYesFresh Air Intake LocationWindow unitYesPollutant Sources Near Air IntakeNoIntake Free of ObstructionYes			No		
Signs of PestsNoDrain Traps WetN/AAir Fresheners in RoomNoRoom ClutteredNoFood if Stored in Room is in Sealed ContainersN/AAir Fresheners in RoomNoMechanical Equipment LocationWindow unitMechanical Room CleanN/AFilters Installed ProperlyYesFilters CleanYesInside of HVAC Unit CleanYesCondensate Pan CleanYesCooling Coil CleanYesFresh Air Intake Free of ObstructionYesFresh Air Intake LocationWindow unitImage: State	Trash Removed Yes	Exhaust Fans Working	N/A		
Room ClutteredNoFood if Stored in Room is in Sealed ContainersN/Ain RoomMechanical Equipment LocationWindow unitMechanical Room CleanN/AFilters Installed ProperlyYesFilters CleanYesInside of HVAC Unit CleanYesCondensate Pan CleanYesCooling Coil CleanYesFresh Air Intake LocationFresh Air Intake Free of ObstructionYesFresh Air Intake Location Pollutant Sources Near Air IntakeWindow unitVYes	Signs of Pests No	Drain Traps Wet	N/A	Air Fresheners No	
Filters Installed Properly       Yes       Filters Clean       Yes       Inside of HVAC Unit Clean       Yes         Condensate Pan Clean       Yes       Cooling Coil Clean       Yes       Yes       Yes       Yes         Fresh Air Intake Location       Window unit       V       Yes       Fresh Air Intake Free of Obstruction       Yes         Pollutant Sources Near Air Intake       No       V       Ves       Yes	Room Cluttered No		N/A		No
Condensate Pan Clean     Yes     Cooling Coil Clean     Yes       Fresh Air Intake Location     Window unit     V       Pollutant Sources Near Air     No     V	Mechanical Equipment Location	Window unit		Mechanical Room Clean	N/A
Fresh Air Intake Location     Window unit     Image: Construction       Pollutant Sources Near Air     No     Image: Construction       Intake     No     Image: Construction	Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean	Yes
Pollutant Sources Near Air     No     ✓     of Obstruction     Yes       Intake     ▼	Condensate Pan Clean Yes	Cooling Coil Clean	Yes		
Pollutant Sources Near Air Intake  No Intake Intak	Fresh Air Intake Location	Window unit	▼		
Observations		No	▼	or Obstruction	
	Observations				
Both portable doors were open to air out the Portable. Both walls under the A/C units were wet. Water stained ceiling tiles from roof leaks. Lights are full of condensation / rusty - scheduled to be replaced 8/18/17. South wall under the windows was wet. Ceiling tiles by A/C units need to be replaced.	tiles from roof leaks. Lights are f	full of condensation / rusty - sc	heduled to be replaced		-

Corrective Actions to be Completed by Site Based Staff

▼
▼
▼
▼
▼
▼
▼
▼

## **Corrective Actions to be Completed by PPO**

\$

I			
Cause of Stained Ceiling Tiles - ROOF	Repair Cause of Stained Ceiling Tiles - ROOF		
e/replace interior water damaged walls	Remove/replace interior water da		
epair South wall around windows	Repair South wall around w		
▼			
<b>v</b>			
▼			
V			
V			