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

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| February 27, | 2017 Signature on File | For Custodial Supervisor Use Only |
|--------------|---|---|
| TO: | Carol Lesser, Principal Nova Eisenhower Elementary | Custodial Issues Addressed Custodial Issues Not Addressed |
| FROM: | Alison Witoshynsky, Project Manager Environmental Health & Safety Department | |
| SUBJECT: | Indoor Air Quality (IAQ) Assessment | |

On February 15, 2017, I conducted an assessment at **Nova Eisenhower Elementary 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.

AW:smn Enc.

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

| | IAQ Assess | nent | | |
|---|--|--|---|-----------------------|
| Nova Eisenhower | Elementary Evaluation Date | e February 15, 2017 | Time of Day | 1115 |
| Outdoor Conditions Temper | ature 82 Relative | Humidity 54.5 | Ambient CO2 | 48 |
| | | Range CO % - 60% 149 | | ccupants 19 |
| Noticeable OdorNoCeiling2' X 4' Lay inWallsDrywall/Tackboard | Visible water damage / staining? No No | Visible microbial growth? No No | Amount of material affected | |
| Floor 12" x 12" Vinyl | No | No | | |
| Ceiling CleanYesWalls CleanYesFlooring CleanNoRoom SurfacesNoCleanNo | HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean | No Yes No | HVAC Return Grills Clean Inside of Return Duct Clean | Yes No |
| Trash RemovedYesSigns of PestsNoRoom ClutteredYes | Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers | Yes Yes N/A | Unapproved Chemicals / Cleaners in Room Air Fresheners in Room | No No |
| Mechanical Equipment Location Filters Installed Properly Yes Condensate Pan Clean Yes | s Filters Clean | No Yes | Mechanical Room Clean Inside of HVAC Unit Clean | No No |
| Fresh Air Intake Location Pollutant Sources Near Air Intake | Roof top Not Accessible | ▼ ▼ | Fresh Air Intake Free of Obstruction | N/A |
| Observations | | | | |
| Teacher complaining of room b freshwater aquarium is set up in in the classroom. Specific infor | | service dog" under tr | aining, reportedly approv | ed to be |

this report.

Corrective Actions to be Completed by Site Based Staff

| ,, _, | |
|---|---|
| Floor needs sweeping in tight spots | ▼ |
| Clean Supply Grills with Wexcide | ▼ |
| Remove return grill and vacuum | ▼ |
| Clean dust from lights & cobwebs from corners | ▼ |
| Clean dust from ceiling tiles or replace | ▼ |
| Thoroughly Clean All Surfaces in Room | ▼ |
| Encourage occupant to reduce clutter | ▼ |
| Remove aquarium & dog from classroom | ▼ |
| | |

Corrective Actions to be Completed by PPO

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| Confective Actions to be completed by 110 | |
|---|---|
| Set Temperature to 72 - 78 degrees | ▼ |
| Repair HVAC to Reduce CO2 Levels | ▼ |
| Repair HVAC to Reduce Humidity Levels | ▼ |
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| | IAQ Assess | nent | | |
|--|--|--|---|-----------|
| Nova Eisenhower | Elementary Evaluation Date | e February 15, 2017 | Time of Day | 1115 |
| Outdoor Conditions Tempera | ature 82 Relative | Humidity 54.5 | Ambient CO2 | 148 |
| | | Range CO % - 60% 1355 | | 22 |
| Noticeable OdorNoCeiling2' X 4' Lay inWallsDrywall/Tackboard | Visible water damage / staining? No No | Visible microbial growth? No No | Amount of material affected | |
| Floor 12" x 12" Vinyl | No | No | | |
| Ceiling Clean Yes Walls Clean Yes Flooring Clean Yes Room Surfaces No Clean | HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean | No Yes No | HVAC Return Grills Clean Inside of Return Duct Clean | No Yes |
| Trash RemovedYesSigns of PestsNoRoom ClutteredYes | Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers | Yes Yes N/A | Unapproved Chemicals / Cleaners in Room Air Fresheners in Room | No Yes |
| Mechanical Equipment Location Filters Installed Properly Yes Condensate Pan Clean Yes | - | No Yes | Mechanical Room Clean Inside of HVAC Unit Clean | No No |
| Fresh Air Intake Location Pollutant Sources Near Air Intake | Roof top Not Accessible | ▼ ▼ | Fresh Air Intake Free of Obstruction | N/A |
| Observations | | | | |
| Teacher complaining of room be "spotty white" material from the of the classroom. An air fresher | | d not have a photo. T | he closet felt colder than | |

Corrective Actions to be Completed by Site Based Staff

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|---|----------|
| Floor needs sweeping in tight spots | ▼ |
| Clean dust from lights & cobwebs from corners | ▼ |
| Thoroughly Clean All Surfaces in Room | ▼ |
| Remove return grill and vacuum | ▼ |
| Clean HVAC Supply /Return Grill with Wexcide | ▼ |
| Clean dust from ceiling tiles or replace | ▼ |
| Encourage occupant to reduce clutter | ▼ |
| Remove air freshener from closet | ▼ |

Corrective Actions to be Completed by PPO

| Confective Actions to be completed by FFO | |
|---|---|
| Set Temperature to 72 - 78 degrees | ▼ |
| Repair HVAC to Reduce CO2 Levels | ▼ |
| Repair HVAC to Reduce Humidity Levels | ▼ |
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| | IAQ Assess | nent | | |
|---|--|--|---|----------------|
| Nova Eisenhower | Elementary Evaluation Date | e February 15, 2017 | Time of Day | 115 |
| Outdoor Conditions Tempera | ature 82 Relative | Humidity 54.5 | Ambient CO2 4 | 48 |
| | | Range CO ² % - 60% 1562 | | ccupants 18 |
| Noticeable Odor No | Visible water damage / staining? | Visible microbial growth? | Amount of material affected | |
| Ceiling2' X 4' Lay inWallsDrywall/TackboardFloor12" x 12" Vinyl | Yes No No | No No No | 3 ceiling tiles | |
| Ceiling CleanNoWalls CleanYesFlooring CleanNoRoom Surfaces CleanNo | HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean | No No | HVAC Return Grills Clean Inside of Return Duct Clean | No Yes |
| Trash RemovedYesSigns of PestsNoRoom ClutteredNo | Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers | N/A Yes N/A | Unapproved Chemicals / Cleaners in Room Air Fresheners in Room | No No |
| Mechanical Equipment Location Filters Installed Properly Yes Condensate Pan Clean Yes | | No Yes | Mechanical Room Clean Inside of HVAC Unit Clean | No No |
| Fresh Air Intake Location Pollutant Sources Near Air Intake | Roof top Not Accessible | ▼ | Fresh Air Intake Free of Obstruction | N/A |
| Observations Teacher reports black spots on t corner of office near desk, dusty | | | | r in |

Corrective Actions to be Completed by Site Based Staff

| Remove and replace stained ceiling tile | ▼ |
|--|---|
| If stains return, contact COMPASS for work order | ▼ |
| Floor needs sweeping in tight spots | ▼ |
| Clean cobwebs from elevated corners | ▼ |
| Wipe upper wall area with Wexcide and monitor | ▼ |
| Remove return grill and vacuum | ▼ |
| Clean HVAC Return Grill with Wexcide | ▼ |
| Clean dust from ceiling tiles or replace | ▼ |

Corrective Actions to be Completed by PPO

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| Set Temperature to 72 - 78 degrees | ▼ |
|---------------------------------------|---|
| Repair HVAC to Reduce CO2 Levels | ▼ |
| Repair HVAC to Reduce Humidity Levels | ▼ |
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