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Risk Management Department

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June 19, 2007

Signature on File

TO: Ms. Sherry Bees,, Principal
Maplewood Elementary School

FROM: Edward See, Project Manager
Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment
FISH 115B, 140, 142, 151, 164, 201, 202, 402, 403, 403A, and Portable 974C

| <u>For Custodial Supervisor Use Only</u> | |
|--|--------------------------------|
| <input type="checkbox"/> | Custodial Issues Addressed |
| <input type="checkbox"/> | Custodial Issues Not Addressed |
| _____ | |
| _____ | |

On May 23, 2007 Jeffrey Moquin and I conducted an assessment of FISH 115B, 140, 142, 151, 164, 201, 202, 402, 403, 403A and Portable 974C at **Maplewood Elementary School**. 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.

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. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all 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 me at 754-321-3200.

cc: Dr. Joanne Harrison, Area Superintendent
Jackie Haywood, Area Director
Jeffrey S. Moquin, Director, Risk Management
Philip Kaufold, Project Manager, Facilities and Construction Management
Sam Bays, Project Manager, Facilities and Construction Management
Ruby Fitzgerald, Broward Teachers Union
Roy Jarrett, Federation of Public Employees
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

ES/tc
Enc.

IAQ Assessment

Location Number
 Evaluation Requested
 Evaluation Date

Maplewood Elementary School

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|-----------------------------------|---|--------------------------------------|----------------------------------|--|-----------------------------------|---|----------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="115B"/> | <input type="text"/> | <input type="text" value="72 - 78"/> | <input type="text"/> | <input type="text" value="30% - 60%"/> | <input type="text"/> | <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 Type | <input type="text" value="2 x 4 Lay In"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Wall Type | <input type="text" value="Drywall"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Flooring | <input type="text" value="Vinyl"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------------|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Flooring | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="Yes"/> | <input type="text"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:

- No signs of water intrusion or visible microbial growth
- Room is used as computer hardware/network room. Principal advised that the temperature has reached as high as 90 degrees and there were instances where the computer crashed.
- HVAC return is not functioning

-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 and Facilities and Construction Management:

- Facilities project replaced air handlers and duct work but there are still problems with test and balance - some rooms are warmer than others. PPO and FCM to evaluate HVAC for proper operation and repair as appropriate.
- Evaluate HVAC return for proper operation and repair as appropriate

IAQ Assessment

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Maplewood Elementary School

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|----------------------------------|---|--------------------------------------|-----------------------------------|--|-----------------------------------|---|--------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="140"/> | <input type="text" value="76.2"/> | <input type="text" value="72 - 78"/> | <input type="text" value="49.3"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="1103"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="4"/> |
| Noticeable Odor | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected | |
| <input type="text" value="Yes"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> | |
| Ceiling Type | <input type="text" value="2 x 4 Lay In"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Wall Type | <input type="text" value="Tackable"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Flooring | <input type="text" value="Vinyl"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|----------------------------------|----------------------------------|---|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Flooring | <input type="text" value="No"/> | <input type="text" value="Yes"/> | <input type="text" value="Yes"/> | <input type="text" value="Clean and sanitize"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:

- No signs of water intrusion or visible microbial growth
- Musty odor in room
- Dust and dirt build up on throw rug and floor

-Recommendations:

Site Based Maintenance:

- Thoroughly clean throw rug or discard and clean and sanitize floor
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

IAQ Assessment

Location Number
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 Evaluation Date

Maplewood Elementary School

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|----------------------------------|---|--------------------------------------|-----------------------------------|--|-----------------------------------|---|--------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="142"/> | <input type="text" value="76"/> | <input type="text" value="72 - 78"/> | <input type="text" value="50.1"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="1171"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="3"/> |
| Noticeable Odor | <input type="text" value="No"/> | | Visible water damage / staining? | Visible microbial growth? | Amount of material affected | | |
| Ceiling Type | <input type="text" value="2 x 4 Lay In"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Wall Type | <input type="text" value="Tackable"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Flooring | <input type="text" value="Vinyl"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|----------------------------------|----------------------------------|--|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Flooring | <input type="text" value="No"/> | <input type="text" value="Yes"/> | <input type="text" value="Yes"/> | <input type="text" value="Clean and sanitize"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="No"/> | <input type="text" value="Yes"/> | <input type="text" value="Yes"/> | <input type="text" value="Clean with Wexcide disinfectant"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:

- No signs of water intrusion or visible microbial growth
- Dust and dirt build up on throw rug and floor
- Excessive clutter in room
- Dust and debris on HVAC return grill
- 2 potted plants with soil

-Recommendations:

Site Based Maintenance:

- Thoroughly clean throw rug or discard and clean and sanitize floor
- Encourage occupant to reduce clutter to assist with cleaning efforts
- Clean HVAC return grill with Wexcide disinfectant solution
- Remove potted plants
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

IAQ Assessment

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Maplewood Elementary School

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|----------------------------------|---|--------------------------------------|-----------------------------------|--|-----------------------------------|---|-----------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="151"/> | <input type="text" value="76.5"/> | <input type="text" value="72 - 78"/> | <input type="text" value="45.4"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="1196"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="13"/> |
| Noticeable Odor | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected | |
| <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> | |
| Ceiling Type | <input type="text" value="2 x 4 Lay In"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | <input type="text" value="None"/> | <input type="text" value="None"/> |
| Wall Type | <input type="text" value="Tackable"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | <input type="text" value="None"/> | <input type="text" value="None"/> |
| Flooring | <input type="text" value="Vinyl"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | <input type="text" value="None"/> | <input type="text" value="None"/> |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Flooring | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:
 - No signs of water intrusion or visible microbial growth
 - Dust and dirt build up on throw rug

-Recommendations:

Site Based Maintenance:
 - Thoroughly clean throw rug or discard
 - Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

IAQ Assessment

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Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|----------------------------------|---|--------------------------------------|-----------------------------------|--|-----------------------------------|---|---------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="164"/> | <input type="text" value="76.4"/> | <input type="text" value="72 - 78"/> | <input type="text" value="48.3"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="1325"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="19"/> |
| Noticeable Odor | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected | |
| <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> | |
| Ceiling Type | <input type="text" value="2 x 4 Lay In"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Wall Type | <input type="text" value="Tackable"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Flooring | <input type="text" value="Vinyl"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Flooring | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:

- No signs of water intrusion or visible microbial growth
- Ceiling tile missing by rear air supply grill

-Recommendations:

Site Based Maintenance:

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

IAQ Assessment

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Maplewood Elementary School

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|----------------------------------|---|--------------------------------------|-----------------------------------|--|-----------------------------------|---|-----------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="201"/> | <input type="text" value="73.5"/> | <input type="text" value="72 - 78"/> | <input type="text" value="52.6"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="1524"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="32"/> |
| Noticeable Odor | <input type="text" value="Yes"/> | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected |
| Ceiling Type | <input type="text" value="2 x 4 Lay In"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> |
| Wall Type | <input type="text" value="Tackable & Drywall"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> |
| Flooring | <input type="text" value="Vinyl"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Flooring | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:

- No signs of water intrusion or visible microbial growth
- Odor in room from air freshener or body spray
- Dust and dirt build up on throw rug
- Room was above typical occupancy
- CO2 level was slightly elevated

-Recommendations:

Site Based Maintenance:

- Thoroughly clean throw rug or discard
- 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 and Facilities and Construction Management:

- Evaluate HVAC system for proper operation and repair as appropriate to lower CO2 level

IAQ Assessment

Location Number

Maplewood Elementary School

Evaluation Requested

Time of Day

Evaluation Date

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|---|--|---|--|---|--|--|--|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input style="width: 50px;" type="text" value="202"/> | <input style="width: 50px;" type="text" value="73.5"/> | <input style="width: 50px;" type="text" value="72 - 78"/> | <input style="width: 50px;" type="text" value="51.5"/> | <input style="width: 50px;" type="text" value="30% - 60%"/> | <input style="width: 50px;" type="text" value="1380"/> | <input style="width: 50px;" type="text" value="Max 700 > Ambient"/> | <input style="width: 50px;" type="text" value="25"/> |
| Noticeable Odor | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected | |
| <input style="width: 50px;" type="text" value="No"/> | | <input style="width: 50px;" type="text" value="No"/> | | <input style="width: 50px;" type="text" value="No"/> | | <input style="width: 50px;" type="text" value="None"/> | |
| Ceiling Type | <input style="width: 50px;" type="text" value="2 x 4 Lay In"/> | | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="None"/> | | |
| Wall Type | <input style="width: 50px;" type="text" value="Drywall"/> | | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="None"/> | | |
| Flooring | <input style="width: 50px;" type="text" value="Vinyl"/> | | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="None"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|---|--|---|---|
| Ceiling | <input style="width: 50px;" type="text" value="Yes"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 100%; height: 20px;" type="text"/> |
| Walls | <input style="width: 50px;" type="text" value="Yes"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 100%; height: 20px;" type="text"/> |
| Flooring | <input style="width: 50px;" type="text" value="Yes"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="Yes"/> | <input style="width: 100%; height: 20px;" type="text"/> |
| HVAC Supply Grills | <input style="width: 50px;" type="text" value="Yes"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 100%; height: 20px;" type="text"/> |
| HVAC Return Grills | <input style="width: 50px;" type="text" value="Yes"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 100%; height: 20px;" type="text"/> |
| Ceiling at Supply Grills | <input style="width: 50px;" type="text" value="Yes"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 100%; height: 20px;" type="text"/> |
| Surfaces in Room | <input style="width: 50px;" type="text" value="Yes"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 50px;" type="text" value="No"/> | <input style="width: 100%; height: 20px;" type="text"/> |

Observations

Findings:

- No signs of water intrusion or visible microbial growth
- Dust and dirt build up on throw rug
- CO2 level was slightly elevated

-Recommendations:

Site Based Maintenance:

- Thoroughly clean throw rug or discard
- 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 and Facilities and Construction Management:

- Evaluate HVAC system for proper operation and repair as appropriate to lower CO2 level

IAQ Assessment

Location Number

Maplewood Elementary School

Evaluation Requested

Time of Day

Evaluation Date

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|----------------------------------|---|--------------------------------------|-----------------------------------|--|-----------------------------------|---|---------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="402"/> | <input type="text" value="73.5"/> | <input type="text" value="72 - 78"/> | <input type="text" value="47.2"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="1147"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="15"/> |
| Noticeable Odor | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected | |
| <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> | |
| Ceiling Type | <input type="text" value="2 x 4 Lay In"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Wall Type | <input type="text" value="Tackable & Drywall"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Flooring | <input type="text" value="Vinyl"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Flooring | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:

- No signs of water intrusion or visible microbial growth
- 3 potted plants with soil in room

-Recommendations:

Site Based Maintenance:

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

IAQ Assessment

Location Number

Maplewood Elementary School

Evaluation Requested

Time of Day

Evaluation Date

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|----------------------------------|---|--------------------------------------|-----------------------------------|--|-----------------------------------|---|---------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="403"/> | <input type="text" value="72.7"/> | <input type="text" value="72 - 78"/> | <input type="text" value="51.7"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="1319"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="17"/> |
| Noticeable Odor | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected | |
| <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> | |
| Ceiling Type | <input type="text" value="2 x 4 Lay In"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Wall Type | <input type="text" value="Tackable & Drywall"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Flooring | <input type="text" value="Vinyl"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Flooring | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:
 - No signs of water intrusion or visible microbial growth

-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

IAQ Assessment

Location Number
 Evaluation Requested
 Evaluation Date

Maplewood Elementary School

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|-----------------------------------|---|--------------------------------------|-----------------------------------|--|-----------------------------------|---|--------------------------------|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="403A"/> | <input type="text" value="74"/> | <input type="text" value="72 - 78"/> | <input type="text" value="51.8"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="1384"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="0"/> |
| Noticeable Odor | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected | |
| <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> | |
| Ceiling Type | <input type="text" value="2 x 4 Lay In"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Wall Type | <input type="text" value="Tackable & Drywall"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |
| Flooring | <input type="text" value="Vinyl"/> | | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text" value="None"/> | | |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Flooring | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings: Storage Room
 - No signs of water intrusion or visible microbial growth

-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

IAQ Assessment

Location Number
 Evaluation Requested
 Evaluation Date

Maplewood Elementary School

Time of Day

Outdoor Conditions Temperature Relative Humidity Ambient CO2

| | | | | | | | |
|-------------------------------------|---|--------------------------------------|-----------------------------------|--|----------------------------------|---|---|
| Fish | Temperature | Range | Relative Humidity | Range | CO2 | Range | # Occupants |
| <input type="text" value="P-974C"/> | <input type="text" value="69.9"/> | <input type="text" value="72 - 78"/> | <input type="text" value="43.4"/> | <input type="text" value="30% - 60%"/> | <input type="text" value="614"/> | <input type="text" value="Max 700 > Ambient"/> | <input type="text" value="4"/> |
| Noticeable Odor | <input type="text" value="No"/> | | Visible water damage / staining? | | Visible microbial growth? | | Amount of material affected |
| Ceiling Type | <input type="text" value="2 x 4 Lay In"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> |
| Wall Type | <input type="text" value="Tackable"/> | | <input type="text" value="Yes"/> | | <input type="text" value="No"/> | | <input type="text" value="South Wall"/> |
| Flooring | <input type="text" value="Vinyl"/> | | <input type="text" value="No"/> | | <input type="text" value="No"/> | | <input type="text" value="None"/> |

| | Clean | Minor Dust / Debris | Needs Cleaning | Corrective Action Required |
|--------------------------|----------------------------------|----------------------------------|----------------------------------|---|
| Ceiling | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Walls | <input type="text" value="No"/> | <input type="text" value="Yes"/> | <input type="text" value="Yes"/> | <input type="text" value="Repair/replace wall material"/> |
| Flooring | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="Yes"/> | <input type="text"/> |
| HVAC Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| HVAC Return Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Ceiling at Supply Grills | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |
| Surfaces in Room | <input type="text" value="Yes"/> | <input type="text" value="No"/> | <input type="text" value="No"/> | <input type="text"/> |

Observations

Findings:
 - Paint is bubbling on South wall under dry erase board and moisture level was elevated
 - Temperature was low at the time of the assessment

-Recommendations:

Site Based Maintenance:
 - Adjust the thermostat to increase the temperature. Continue to monitor condition and initiate a work order for Physical Plant Operations to evaluate the HVAC system if temperature does not improve.
 - 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 bubbling paint and elevated moisture in South wall under dry erase board - **Refer to work order EQ00847**