

**School/Facility:** Glenwood Middle  
**Location:** Rooms 2, 7, 11, 24, 27, 35, 37, 38, 40, gymnasium, locker room, cafeteria and portable 23 / school identifies as 81 (student's schedule)  
**Date of IEQ Report Form:** December 12, 2016  
**Date(s) Investigated:** December 21, 2016 and January 5, 12, and 27, 2017  
**Date of Report:** March 14, 2017

**IEQ Concern:**

Parent expressing concern regarding their child's general health symptoms.

**IEQ Investigation Process:**

Identify deficiencies that may impact IEQ and/or sources of odor concerns. Typically includes the following depending on the nature of concern, but not limited to:

- interview/questionnaire of concern individual(s)
- inspection above drop ceiling (condition of roof deck, pipe insulation, return air plenum)
- inspection of ventilation system (operation of variable air volume box and outdoor air dampers, check controls, measurements of carbon dioxide, temperature and relative humidity, sources near outdoor air intake, measure return and supply air volume, cleanliness of coils, liner and condensate pan)
- inspection of exterior
- inspection below drop ceiling (housekeeping, sink and floor drain traps, signs of past and present moisture concern via visual and/or moisture meter, mold growth, ensure connection of current and capping of abandoned sanitary vents, odorizers, excessive plants and fabric items, identify potential pathways, and measure volatile organic compounds, carbon monoxide, and lighting)

**Findings:**

- A faint brown water stain ceiling tile was observed within the FACS classroom.
- Overall housekeeping was acceptable, but some random surfaces could be improved in rooms 2, 7, and FACS classrooms.
- A slight old vinyl record aroma was detected in classroom 11 and believed to be related materials within the classroom, such as what appears to be new black felt or matting on the bulletin boards.
- An utility access panel (glass doors) is within the wall of science classroom 7. A pipe in the chase was found uncapped.
- Based on the type or location of the trap within the science sinks, it could not be determined if they are filled with water or dried out. Dried out traps have the potential to allow for the back flow of sewer gases/odor. No odor was emanating from the sinks at time of the inspection.
- The ceiling HVAC cassette units in the art and FACS classrooms are beginning

- to accumulate particulate buildup on the air distribution louvers.
- Portable 23.
    - The return air grille was dusty.
    - The supply air diffusers are starting to rust and show signs of grime accumulation.
    - Dirt streaks were observed on the textured ceiling surrounding portions of the supply air diffusers.

**Corrective Actions:**

- School administration is to inform custodial and science staff to set a schedule to ensure water is used (~ 5 gallons) at least monthly in all science sinks and eyewashes to prevent traps from drying out. This includes the sink in the fume hood within the science prep room which is located behind room 4 between rooms 1 and 7.
- School administration is to inform custodial personnel to regularly clean the fins of the ceiling HVAC cassettes in all rooms.
- Building Service Plumbing Shop checked all science rooms, capped all piping in glass doors, and marked as abandoned gas piping.
- Building Services Plumbing Shop checked all science sinks, removed doors to seal pipe sleeves and unused electrical conduits on 18 island sinks.
- The return air grille was removed and vacuumed in portable 23.
- The supply air diffusers in portable 23 will be replaced once the order of the new diffusers arrive.
- The dirt streaks on the textured ceiling around the supply air diffusers in portable 81 have been cleaned and painted.