

School/Facility: Lime Kiln Middle
Location: Room 3
Date of IEQ Report Form: October 1, 2017
Date(s) Investigated: November 22 and December 21, 2017
Date of Report: February 10, 2017

IEQ Concern:

An individual reported a health concern, discomfort, and lack of air circulation.

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:

- On both visits, the dedicated outdoor air roof top unit was found off and reported to Building Services HVAC shop at the time of finding. The reasoning's were RTU was serviced and not turned back on and turned off due to a concern with a very cold spell (outdoor air temperatures).
- A balometer was used to measure air volume from the outdoor air supply diffusers within the classroom. Each was measuring approximately 95 cubic feet per minute (cfm) when mechanical prints call for 225 cfm per diffuser.
- The school's HVAC had been in the process of being tested and balanced by an external contractor.

Corrective Actions:

- Building Services HVAC shop had turned the RTU back on.
- Building Services HVAC shop will contact and revisit testing and balancing data with the mechanical engineer in charge. Information will be provided to the HCPSS Office of the Environment within the next week.
- The Office of the Environment will place a data logger in the classroom this upcoming cooling season to log temperature and relative humidity.
- An updated report will be provided after corrective action bullet points 2 and 3 are completed.