

School/Facility: Applications & Research Laboratory

Location: Room C28

Date of IEQ Report Form: December 13, 2017 (School Dude)

Date(s) Investigated: January 22, 2018

Date of Report: February 22, 2018

IEQ Concern:

An individual was experiencing a general health symptom. The individual indicated that they believed the symptom was associated with the carpet in the room.

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 with concerned 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:

- Staining was observed on the carpet around the perimeter of the room. No odors of concern were identified in association with the carpet. According to Building Services, the carpet is over 10-years old.
- No elevated moisture readings were detected within the carpet via a moisture probe.
- No elevated moisture readings were detected in the lower portions of the drywall via a moisture probe calibrated to drywall.
- No suspect mold growth was observed in the classroom or areas above the drop-ceiling or underneath the carpet.
- The Roof Top Unit (RTU) that services the classroom was assessed. Fiberglass insulation within the unit was displaced just above the fan belt. No other deficiencies within the unit were identified.
- On February 8, 2018, a photograph was sent to the Office of the Environment of water infiltrating into the room through an exterior door.

Corrective Actions:

- Due to the concern, the carpet was reported to have been extracted by Building Services, prior to the Office of the Environment's assessment. The staining observed appears to be cosmetic.
- The "loose" fiberglass insulation within the RTU was to be assessed by Building Services under work order #58283. Building Services indicated that the concern is to be addressed by an insulation contractor.
- The exterior door was re-caulked under work order #59074. The rusty areas will be repainted under the same work order once exterior temperatures are appropriate for painting.
- The carpet near the exterior door (approximately 9 square feet) will be removed and replaced with a walk-off mat under work order #60510.
- The individual is to report back to the Office of the Environment in the spring (increased humidity, differing HVAC operating conditions) to determine if additional assessment is necessary.