



Date: 3/9/20

Performed by: Andrew Tinklenberg

Location: Davis Center

RE: Radon Testing

INTRODUCTION

From November 14, 2019 – February 13, 2020, long-term radon testing was performed within the Davis Center. The testing was performed in frequently-occupied ground contact rooms and rooms immediately above unoccupied spaces (crawl spaces and tunnels) that are in contact with the ground per the Environmental Protection Agency (EPA) and Minnesota Department of Health (MDH) guidelines.

SUMMARY OF FINDINGS

After initial and follow-up testing, all tested areas in the Davis Center were found to have radon gas levels below 4.0 pCi/L, which is the EPA and MDH action level.

Of the twenty-six (26) areas that were tested, three (3) of the testing devices placed in Office L1-301, Office N1-113 and cafeteria S1-444 were lost/removed and could not be submitted for analysis, twenty-two (22) were found to be below 4.0 pCi/L, and one (1) area (South Reception Desk area S1-400) was found to be above 4.0 pCi/L. (Note: Room B was the blank sample.) When radon is detected above this level, the EPA and MDH recommend follow-up testing in the area. From February 25 – 28, 2020, follow-up testing was performed in the area using a continuous radon monitor (CRM). CRMs are recommended for follow-up testing because they give hour-by-hour results instead of just an overall average of the radon concentration during the test period. This can be helpful in assuring that radon gas concentrations in an area are below 4.0 pCi/L during occupied times. The CRM testing proved this to be true as the results for the follow-up testing found the overall average radon gas concentration for the entire 72-hour testing period to be 0.8 pCi/L, and the average radon gas concentration during the areas occupied hours, which are from approximately 8:00 AM – 5:00 PM Monday – Friday, to be 0.4 pCi/L.

Even though the average radon gas concentrations for the testing devices placed in Training Room S1-433 and Office S1-431 were below 4.0 pCi/L, because of the value of uncertainty used by the laboratory (± 1.0 for the devices in these areas) and the possibility of the upper range of the radon gas concentration falling above 4.0 pCi/L, CRM follow-up testing was also performed in these areas from March 2 – 6, 2020. The CRM testing in Training Room S1-433 found the overall average radon gas concentration for the entire 48-hour testing period to be 1.6 pCi/L, and the average radon gas concentration during the rooms occupied hours, which are from approximately 8:00 AM – 5:00 PM Monday – Friday, to be 0.4 pCi/L. The CRM testing in Office S1-431 found the overall average radon gas concentration for the entire 48-hour testing period to be 1.5 pCi/L, and the average radon gas concentration during the rooms occupied hours, which are from approximately 8:00 AM – 5:00 PM Monday – Friday, to be 0.3 pCi/L.

The results of the CRM testing show that the ventilation systems in the Davis Center effectively maintain radon levels below the 4.0 pCi/L action level during the occupied hours of these areas.

Please refer to the attached Radonova radon testing report, CRM testing reports and sample diagram for further information concerning the radon testing, areas that were tested, and the radon levels that were found to be present. The information will be posted on the EH&S webpage available through the main MPS website and maintained on file by EH&S.

If you have any questions regarding this information, please feel free to contact me. Thank you,

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