

DHSS Review of Monthly Total Reduced Sulfur (TRS) Air Sample Data from the Bridgeton Landfill Area, May 1, 2018

The Department of Health and Senior Services (DHSS) has reviewed laboratory air sample data for total reduced sulfur (TRS) compounds collected for the Department of Natural Resources (DNR) near Bridgeton Landfill on May 1, 2018. Samples were collected at one location upwind of the landfill and one location downwind of the landfill. DHSS has reviewed this data for evaluation of potential public health concerns of short-term health effects.

Hydrogen Sulfide and Other Reduced Sulfur Compounds

Hydrogen sulfide and other reduced sulfur compounds were not detected in the upwind or downwind laboratory air samples. Hydrogen sulfide was detected by the Jerome meter during routine monitoring on the same day; however, those concentrations were less than the detection limits of the laboratory analysis. Total reduced sulfur compounds were also detected by an AreaRAE monitor on the same day; however, the concentrations of individual compounds that contributed to the total concentration were apparently less than the detection limits of the laboratory analysis.

Sulfur Dioxide

Sulfur dioxide is also included in the analysis method for TRS, but was not detected in the upwind or downwind laboratory samples. Sulfur dioxide was detected by AreaRAE monitors during routine monitoring on the same day; however, those concentrations were less than the detection limits of the laboratory analysis.