

DHSS Review of Air Sample Data from the Bridgeton Landfill Area, May 23, 2013

The Department of Health and Senior Services (DHSS) has reviewed air sample data collected for the Department of Natural Resources (DNR) near Bridgeton Landfill on May 23, 2013. Samples were collected at two locations upwind of the landfill and two locations downwind of the landfill for laboratory determination of concentrations of volatile organic compounds (VOCs), aldehydes, and reduced sulfur compounds. DHSS has reviewed this data for evaluation of potential public health concerns for short-term health effects.

VOCs

Concentrations of VOCs were well below levels of public health concern. Downwind of the landfill, 22 VOCs were detected in ambient air, which ranged in concentration from 0.1 parts per billion (ppb) to 49.8 ppb and did not exceed health-based screening levels for acute exposure.

Aldehydes

Concentrations of aldehydes were well below levels of public health concern. Downwind of the landfill, five aldehydes were detected, which ranged in concentration from 0.07 ppb to 1.74 ppb and did not exceed health-based screening levels for acute exposure.

Reduced Sulfur Compounds

Reduced sulfur compounds were not detected in any of the samples. During the 4-hour sample collection period, hydrogen sulfide was not detected by the Jerome meter in nearby downwind locations. Reduced sulfur compounds were also not detected by the AreaRAE monitor located in the nearby downwind location.