

DHSS Review of Air Sample Data from the Bridgeton Landfill Area, April 22, 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 April 22, 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 of short-term health effects.

VOCs

Concentrations of VOCs were well below levels of public health concern. Downwind of the landfill, 32 VOCs were detected in ambient air in concentrations that generally exceeded concentrations detected upwind of the landfill. However, these concentrations, which ranged from 0.07 parts per billion (ppb) to 74.6 ppb, did not exceed health-based guidelines for acute exposure.

Aldehydes

Concentrations of aldehydes were well below levels of public health concern. Five aldehydes were detected in ambient air downwind of the landfill. These concentrations ranged from 0.185 ppb to 1.52 ppb and did not exceed guidelines for acute exposure.

Reduced Sulfur Compounds

Reduced sulfur compounds were not detected in any of the samples.