

**Ambient Air Concentrations Quarterly Update  
Third Quarter 2024 (July – September 2024)**

Notes:

- 1) Ambient air is monitored at 16 air samplers, one in each compass sector, approximately one to two miles from the center of the West Valley Demonstration Project (WVDP) site. Additionally, a high-volume sampler with better detection capability is located in the north-northwest direction as a conservative measure because, historically, the predominant prevailing wind direction at the WVDP is toward the north-northwest.
- 2) The EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) Compliance Limit is 10 mrem/year. In the graphs on pages 3 and 4, the 'NESHAP 10 mrem/year Limit' shows the concentration in air (in  $\mu\text{Ci/mL}$ ) for each isotope at each location that would result in a dose equivalent of 10 mrem/year if the concentration level is sustained for a full year.
- 3) Negative results in the data tables represent sampling results with zero activity present or where the instrument background slightly exceeds the instrument radioactivity count rate obtained for the sample.

In the third quarter of 2024, no positive measurements were observed at the ambient air monitoring locations.

**Map 1. Ambient Monitoring Sampler Locations (No positive detections in Q3 2024)**

