

Surface Preliminary Remediation Goals (SPRG) Calculator

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What is SPRG?

- SPRG stands for **Surface Preliminary Remediation Goal**.
- SPRGs are the initial cleanup goals • for contamination on hard surfaces at a Superfund site and usually are not final cleanup levels.
- Used when there is no appropriate government regulation of cleanup levels.
- Used for residential , indoor worker, and outdoor worker exposure.

2D Exposure to Fixed Settled Dust on Finite Slabs (Outdoor Worker)



- buildings.)
- **risk of 10**⁻⁶.

 - diagrams below)

3D Exposure to Fixed Settled Dust



SPRG Calculator

• The **SPRG Calculator** is a tool that allows EPA to calculate radiation cleanup levels on contaminated hard outside surfaces (streets or sides of

• Uses slope factors to calculate clean-up levels based on a target cancer

• **Slope factors** provide cancer risk posed by lifetime exposure to specific radionuclides. Slope factors also take into account the type of exposure (inhalation, ingestion, or external) and amount of exposure. For example, a resident on a site would expect to have a different exposure level than a worker on the same site.

• **Target cancer risk of 10**⁻⁶ means that a person exposed to the contamination has a one in a million chance of developing cancer. (Target is based on highest estimated level of exposure. Most people will have less of a chance of developing cancer.)

• Takes into account different exposure pathways (shown in the

3D Exposure to Fixed

SPRG: http://epa-sprg.ornl.gov



SPRG Calculator



