Oxon Cove Landfill

National Park Service U.S. Department of the Interior

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District of Columbia

What is Risk Assessment?

> A tool used to quantify the probability of a harmful effect to individuals or populations from certain hazards in the environment (e.g., chemicals in soil). Risk Assessment is completed during the Remedial Investigation phase of CERCLA.

Risk Assessment (RA)/Evaluation Process:



Ecological Receptors Risk Assessment Scenarios:

- > Aquatic Invertebrates
- > Birds
- > Fish
- Terrestrial Animals

1 in 10,000 to 1 in 1,000,000

Source: International Agency for Research on Cancer/WHO, 2018

Non-cancer "risks" are described as a number called the Hazard Quotient (HQ). The HQ is the ratio of the estimated daily dose to the safe dose.

If the daily dose is less than the safe dose (i.e., the HQ is less than 1.0), people are not likely to be harmed. However, if the HQ is above 1.0, there is a potential for concern.

How are Risk Assessment Findings Used?

- To identify areas of the site that pose risks that are considered unacceptable
- To determine where and how much remediation (clean up) is necessary

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