

Proposed Rulemaking: Administration of the Land Recycling Program – Chromium (VI)

Environmental Quality Board
April 8, 2025





Purpose

- Update the chromium (VI) toxicity value
- Correct an error in residential soil direct contact value
- Corresponding updates to chromium (VI) soil direct contact Medium-Specific Concentrations (MSCs) under Statewide Health Standard



Background

- EPA published new toxicity values for chromium (VI) in its Integrated Risk Information System (IRIS) on August 1, 2024.
- Correction needed to add mutagenic factors into residential soil direct contact calculation that was previously not included.



Toxicity Value Updates – Table 5B

Chromium (IV) Toxicity Values				
	Current value	Source	Proposed value	Source
RfDo (mg/kg-day) Oral Reference Dose	0.003	I	0.0009	I
RfCi (mg/m ³) Inhalation Reference Concentration	8×10^{-6}	I	3×10^{-5}	I
CSFo (mg/kg-day) ⁻¹ Oral Cancer Slope Factor	0.5	C	0.16	I
IUR (μg/m ³) ⁻¹ Inhalation Unit Risk	1.2×10^{-2}	I	1.1×10^{-2}	I



MSC Value Updates – Table 4A

- Residential soil direct contact value is decreasing from 37 mg/kg to 27 mg/kg
- Nonresidential soil direct contact value is increasing from 180 mg/kg to 570 mg/kg



Affected Parties

- Any person or business who remediates chromium (VI) soil contamination using the standards established by the Land Recycling Act and the Chapter 250 regulations.
- Individuals potentially exposed to soil contaminated by chromium (VI) releases.



Environmental and Economic Impacts

- The toxicity values and associated MSCs need to reflect the best available scientific information for chromium (VI).
- The proposed changes are not expected to add any significant costs to the cleanup of contaminated sites under this rulemaking.



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Advisory Committee Review

The draft proposed rule was presented to and reviewed by the Cleanup Standards Scientific Advisory Board on October 30, 2024.



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Recommendation

- DEP recommends the Board adopt this proposed regulation.
- A 30-day public comment period is recommended.



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Questions?

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