



**pennsylvania**

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Environmental Cleanup & Brownfields

# **Land Recycling Program Chapter 250 Proposed Rulemaking Overview**

Cleanup Standards Scientific Advisory Board  
Meeting  
October 20, 2022

Tom Wolf, Governor

Ramez Ziadeh, P.E.  
Acting Secretary

# Concepts Overview

- Overview of draft proposed rulemaking text.
- Overview of proposed changes to medium-specific concentration (MSC) and other tables.
- Next steps in the rulemaking process.

# Subchapter C.

## Statewide Health Standard

- 250.304(c) – Added language to clarify that any final Health Advisory Limits published in the federal register are effective upon publication.
- 250.305(b)(1) and (2) – Edited equations to clarify that the soil porosity ( $\eta$ ) is a multiplier and not an exponent and defined the term “ $C_{PL}$ ”.

# Subchapter C. (cont.)

## Statewide Health Standard

- 250.306(e) – Changed the references and text of this section to reflect a new blood lead model use and the new target blood lead level.

# Subchapter D.

## Site-specific Standard

- 250.404(a) – Changed “environmental receptors” to “ecological receptors” to clarify what a receptor is.

# Subchapter F.

## Exposure and Risk Determinations

- 250.605 – Added EPA’s 1993 guidance regarding the relative potency factors (RPF) for polycyclic aromatic hydrocarbons (PAH).
- 250.606(d)(3)(iii) – Removed the words “below grade” to clarify that vapor intrusion applies to all buildings including slab-on-grade structures.

# Subchapter G.

## Demonstration of Attainment

- 250.707(b)(1) – Add language as section (iv) regarding the use of averaging attainment data for attainment of the direct contact lead standard.

# Proposed Soil Values - Lead

	Current	Proposed Values
<b>Residential</b>	450 mg/Kg	200 mg/Kg
<b>Non-Residential</b>	450 mg/Kg	450 mg/Kg



# Tables 1 & 2

- Table 1 – Added Gen-X and PFBS Final HAL as MSC for each as well as the Gen-X ammonium salt and potassium PFBS salt.
- Table 1 – Updated PAH MSC values based on updated carcinogenic toxicity values using the RPF values.
- Table 1 – Corrected CAS number for Diquat, was the CAS number for Diquat dibromide.
- Table 2 – No changes.

# Tables 3A & 3B

- Table 3A – Calculated Gen-X, Gen-X ammonium salt, and PFBS potassium salt direct contact soil values.
- Table 3A & 3B – Updated PAH values based on RPF calculations of carcinogenic toxicity values.
- Table 3B – Added 100x GW values for Gen-X, Gen-X ammonium salt, and PFBS potassium salt.

# Tables 4A & 4B

- Table 4A – Residential and non-residential direct contact values calculated for lead using target blood lead levels of 5  $\mu\text{g}/\text{dL}$  in updated models.
- Table 4A – Cadmium values decreased by an order of magnitude due to updated toxicity values.
- Table 4B – No changes

# Table 5A

- Table 5A – Updated values for PAH toxicity based on the RPF values. Added the citation for the 1993 Environmental Protection Agency (EPA) RPF memo.
- Table 5A – Added Gen-X, Gen-X ammonium salt, and PFBS potassium salt toxicity values and physical properties.

# Table 5B

- Table 5B – Updated toxicity values for cadmium and antimony.
- Table 5B – Added “s = surrogate” back to the list of sources.

# Table 7

## Default Values for Calculating MSC's for Lead

- Updated the residential exposure input parameters for use in the IEUBK (version 2.0) blood lead model.
- Updated the non-residential exposure input parameters for use in the Adult Lead Model (ALM) used by EPA.

# Next Steps for Rulemaking

- Finalize language for proposed annex and proposed changes to tables.
- EQB consideration of proposed rulemaking.



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# Questions?

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