

CSR OMNIBUS UPDATING: Proposed Amendments to Schedule 10

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Summary of Proposed Updates for 2015/2016 Stage 10 amendment to CSR

1. Repeal existing Contaminated Sites Regulation (CSR) Schedule 10 and move existing Schedule 10 substance into Parts 2 and 3 of a proposed new single schedule (Schedule X) consolidating Schedule 4, 5, and 10.
2. Add or remove substances to the list of Schedule 10 substances based on current United States Environmental Protection Act (USEPA) Region 3, 6, and 9 compiled regional screening levels [1].
3. Schedule X, Parts 2 and 3 soil standards for new substances added, will be adjusted to British Columbia's Human Health incremental lifetime cancer risk (ILCR) of 1/100 000 instead of the ILCR of 1/ 1 000 000 used in USEPA.

Introduction

The CSR Schedule 10 numerical soil and water standards provide protection to agricultural, urban park, residential, commercial, industrial soil and drinking water. Schedule 10 lists a wide-range of substances and the substances differ from those in Schedule 4 and Schedule 5 by the infrequent occurrence on contaminated sites or because limited information was available to derive a complete matrix of soil standards for use in Schedule 5.

The existing Schedule 10 numerical soil and water standards were largely sourced from the USEPA regions 3, 6, and 9 Regional Screening Levels (RSL) with moderate adjustments in 2003 in preparation of Schedule 10 for the 2004 9th Stage amendment to the CSR. Since 2003, adjustments have been made as recently as 2014, however many substantial changes were not addressed including the continued addition of new contaminants of concern. Additionally, discrete details about the adjustments made to the USEPA regions 3, 6, and 9 standards or the original standards derivation from the EPA remains unclear as original EPA Preliminary Remediation Goals (PRG) and RSL data from 2003 are no longer available.

Legislative Review

Schedule 10 is currently arranged alphabetically and comprises substances not listed in the current Schedules 4 or 5. Schedule 10 includes standards for agricultural, urban park, residential, commercial, and industrial land uses. Schedule 10 also provides human health protective generic soil standards and CSST modified US EPA drinking water standards.

The current protocol for deriving Schedule 10 standards involves adopting the pre-existing Screening Levels from the USEPA regions 3, 6, and 9 and adjusting the EPA RSLs to reflect CSST [2] acceptable risk.

Stage 10 Amendments

Proposed Updates

1. Repeal existing CSR Schedule 10 and move existing Schedule 10 prescribed substances into Part 1 (human health) and Part 2 (ecological health) of the proposed new single schedule (Schedule X) of consolidated Schedule 4, 5, and 10 substances.
2. Add or remove substances to the list of Schedule 10 prescribed substances based on current USEPA RSLs. The addition or removal of substances will also be coordinated with the changes made in Schedule 4 and 5.
3. Updated Schedule 10 substances will be adjusted to Contaminated Sites Soil Task Group (CSST) [2] acceptable risk.
4. Create a document explaining the standard derivation for the USEPA Screening Levels from which Schedule 10 was created.
5. Removal or Addition of Substances to Schedule 10 Substances will be added or removed if they have been added or removed in the current USEPA Regional Screening Levels. The addition or removal of substances will also be coordinated with the changes made in Schedules 4 and 5. Repeal existing CSR Schedule 10 and move existing Schedule 10 substances into a proposed new single schedule consolidating Schedule 4, 5, and 10.

Other Issues

Phased out substances (i.e. no longer sold in Canada, no longer used in Canada) and those not found in the environment (i.e. do not have the potential to be persistent, bioaccumulative, and toxic) could be removed. Similar to the proposed Schedule 6 substances that qualify as being irrelevant to BC contaminated sites and not of environmental concern could also be removed from Schedule 10.

References

- [1] USEPA (2015). [*Regional Screening Levels for Chemical Contaminants. Screening Levels for Chemical Contaminants. RSL Tables \(last updated January 2015\).*](#) USEPA Region 9 Superfund Division (SFD-1). Pacific Southwest, Region 9. San Francisco California. USA. January 2015.
- [2] British Columbia. (1996). [*Overview of Contaminated Sites Soil Task Group \(CSST\) Procedures for the Derivation of Soil Quality Matrix Standards for Contaminated Sites.*](#) Ministry of Environment. Victoria, British Columbia. January 31, 1996.