**General technical guidelines on the environmentally sound management of wastes consisting of, containing or contaminated with persistent organic pollutants**

Comments:

**G. Environmentally sound disposal**

The following reference may be usefull: METHODS OF RESPONSIBLY MANAGING END-OF-LIFE FOAMS AND PLASTICS CONTAINING FLAME RETARDANTS/ \_ End-of-life Foams and Plastics Containing Flame Retardants Report by Green Science Policy Institute/ Petty S. et al. March 2017//https://www.researchgate.net/publication/316990360. See as attached file.

#### Specially engineered landfill113

The list of references (mentioned in note 113) propose to update:

* National Guidelines for Hazardous Waste Landfills. PN 1365 Canadian Council of Ministers of the Environment.2006// https://www.ccme.ca/files/Resources/waste/hazardous/pn\_1365\_e.pdf
* Landfill Guidelines. Centre for Advanced Engineering. University of Canterbury Christchurch. New Zealand. ISBN 0-908993-23-4. April 2000 // https://www.mfe.govt.nz/sites/default/files/4139\_landfill.pdf
* Environmental Guidelines/ Solid waste landfills. State of NSW, Environment Protection Authority. Second edition, 2016 // www.epa.nsw.gov.au

### **Contaminated site identification**

(iv) Usage and storage of POPs, such as application of pesticides, placement of transformers and usage of PFOS-containing fire-fighting foam; and

328. Information on contaminated site identification is widely available. For example, the United Nations Industrial Development Organization (UNIDO) Expert Group on POPs has developed a comprehensive toolkit aimed at assisting developing countries with the identification, classification and prioritization of POP-contaminated sites and with the development of suitable technologies for land remediation, in accordance with best available techniques and best environmental practices (BAT/BEP) (UNIDO, 2010). Other information can be found in the *Reference manual for assessing soil contamination* (FAO, 2000), the *Guidance document on the management of contaminated sites in Canada* (Canadian Council of Ministers of the Environment, 1997), *Assessment and management of contaminated sites* (Department of Environment Regulation, Western Australia, 2014) and *Brownfields Road Map to Understanding Options for Site Investigation and Cleanup. Sixth Edition* (US EPA, 2017).

1. Contaminated site criteria developed by Governments using risk assessment techniques are used as general targets in site remediation. Separate criteria can be developed or adopted for soil, sediment and groundwater. Often, a distinction is made between soil quality criteria depending on the use of the site: industrial (least stringent criteria), commercial, residential or agricultural (most stringent criteria) soils. Examples of such criteria can be found in the German Federal Soil Protection and Contaminated Sites Ordinance, the Swiss Soil Burden Ordinance and the Canadian Environmental Quality Guidelines, the Austrian Standard ÖNORM S 2088-2 and in (Derivation methods of soil…, 2007)115.

p. 330 after (a) web-sites for European region would be useful:

European region:

<http://www.umweltbundesamt.at/en/umweltschutz/altlasten/projekte1/international1/>

[http://www.eugris.info](http://www.eugris.info/)

[http://www.nicole.org](http://www.nicole.org/)

<https://esdac.jrc.ec.europa.eu/themes/soil-contamination>

https://www.eea.europa.eu/data-and-maps/indicators/progress-in-management-of-contaminated-sites-3/assessment

**Bibliography:**

Additional references:

Methods of Responsibly Managing End-Of-Life Foams and Plastics Containing Flame Retardants/ \_ End-of-life Foams and Plastics Containing Flame Retardants Report by Green Science Policy Institute/ Petty S. et al. March 2017//https://www.researchgate.net/publication/316990360

National Guidelines for Hazardous Waste Landfills. PN 1365 Canadian Council of Ministers of the Environment.2006// https://www.ccme.ca/files/Resources/waste/hazardous/pn\_1365\_e.pdf

Landfill Guidelines. Centre for Advanced Engineering. University of Canterbury Christchurch. New Zealand. ISBN 0-908993-23-4. April 2000 // https://www.mfe.govt.nz/sites/default/files/4139\_landfill.pdf

Environmental Guidelines/ Solid waste landfills. State of NSW, Environment Protection Authority. Second edition, 2016 // www.epa.nsw.gov.au

Brownfields Road Map to Understanding Options for Site Investigation and Cleanup. Sixth Edition. Office of Land and Emergency Management. EPA 542-R-17-003. 2017//www.epa.gov/brownfields/brownfields-roadmap

Assessment and management of contaminated sites. Contaminated sites guidelines / Department of Environment Regulation. Western Australia. December 2014// https://www.der.wa.gov.au/images/documents/your-environment/contaminated-sites/guidelines/Assessment\_and\_management\_of\_contaminated\_sites.pdf

Derivation methods of soil screening values in Europe / C.Carlon, M. D’Alessandro, F. Swartjes / A review and evaluation of national procedures towards harmonization. European Commission, Joint Research Centre, Ispra, EUR 22805-EN, 2007. 306 p.

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