

PROVINCE OF BRITISH COLUMBIA
ORDER OF THE LIEUTENANT GOVERNOR IN COUNCIL

Order in Council No. 292


, Approved and Ordered June 03, 2022



~~Lieutenant Governor~~
Administrator

Executive Council Chambers, Victoria

On the recommendation of the undersigned, the ~~Lieutenant Governor~~ ^{Administrator}, by and with the advice and consent of the Executive Council, orders that, effective March 1, 2023,

- (a) sections 1 to 9 of the *Environmental Management Amendment Act, 2020*, S.B.C. 2020, c. 3, are brought into force,
- (b) the Waste Discharge Regulation, B.C. Reg. 320/2004, is amended as set out in the attached Appendix 1, and
- (c) the Contaminated Sites Regulation, B.C. Reg. 375/96, is amended as set out in the following sections of the attached Appendix 2:
 - (i) sections 2 and 5;
 - (ii) section 7, as it enacts sections 40 to 42, 43 (1) and (2), 44, 45 and 46.1 (7);
 - (iii) sections 10, 11 and 13.


Minister of Environment and Climate Change Strategy
and Minister Responsible for Translink


Presiding Member of the Executive Council

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section: *Environmental Management Amendment Act, 2020*, S.B.C. 2020, c. 3, s. 10;
Environmental Management Act, S.B.C. 2003, c. 53, ss. 62, 138 and 139

Other: OIC 1480/96, 723/2004

R20550317

APPENDIX 1

- 1 Schedule 1 of the Waste Discharge Regulation, B.C. Reg. 320/2004, is amended by repealing the definition of “contaminated site contaminant management” in section 2 and substituting the following:*

“contaminated site contaminant management” means an activity, at or away from a contaminated site, for the treatment, consolidation, removal, recycling, destruction or disposal of contaminants or contaminated substances from the site; .

APPENDIX 2

- 1 Part 1 of the Contaminated Sites Regulation, B.C. Reg. 375/96, is amended*

- (a) in section 1 by repealing the definition of “background concentration” and substituting the following:*

“background concentration” means the naturally occurring concentration of a substance in an environmental medium at a geographic area, as determined in accordance with the director’s protocols; ,

- (b) in section 1 in the definitions of “high density residential use” and “low density residential use” by adding “, subject to section 1.2,” after “means”, and*

- (c) by adding the following section:*

Interpretation — high and low density residential land uses

1.2 For the purposes of the definitions of “high density land use” and “low density land use” in section 1, a land use that would otherwise be a high density residential land use is to be considered to be a low density residential use if the land is also used

- (a) to grow plants for human consumption, or
- (b) as a playground, sports field, picnic area or other use that involves frequent contact with the soil by children.

- 2 Section 4.2 is amended*

- (a) by adding the following subsection:*

(1.1) A person is exempt from the requirement to provide a site disclosure statement to a municipality under section 40 (1) (b) (ii) of the Act if the land is the site of a waste management facility that is

- (a) operated under a permit or operational certificate, and
- (b) actively accepting or processing waste. , **and**

- (b) in subsection (2) by adding the following paragraphs:*

- (c.1) installing or replacing posts for decks;
- (c.2) installing footings, pads or other concrete structures at or near the surface of the ground; .

- 3 *Section 6.3 is amended*
- (a) *in subsection (2) (a) by striking out “subject to” and substituting “operated under”, and*
- (b) *in subsection (3) by striking out “must be undertaken” and substituting “must be completed”.*
- 4 *Section 7.1 (1) (f) is repealed.*
- 5 *Sections 8 (1) (a) and 9 (20) (f) are repealed.*
- 6 *Section 11 is amended*
- (a) *in subsection (1) by adding the following paragraph:*
- (b.1) the concentration of any of the following substances, as defined in Schedule 3.2, in surface water or groundwater at the site is greater than the applicable generic numerical water standard:
- (i) EPHw10-19;
 - (ii) nonaqueous phase liquids;
 - (iii) VHw6-10; , *and*
- (b) *in subsection (4) (b) by striking out “a commercial or industrial activity listed in Schedule 2” and substituting “a specified industrial or commercial use”.*
- 7 *Part 8 is repealed and the following substituted:*

PART 8 – REMOVAL OF SOIL

Division 1 – Interpretation

Definitions

- 40 In this Part:
- “**federal land**” means land under the administration and control of Her Majesty the Queen in right of Canada;
- “**highway**” has the same meaning as in the *Transportation Act*;
- “**low-impact land use**” means a land use described in any of paragraphs (a) to (d) of section 12 (3) [*wildlands, agricultural, urban park or residential*];
- “**pipeline**” has the same meaning as in the *Oil and Gas Activities Act*;
- “**preload**” means soil that, for geotechnical purposes, is temporarily placed on the surface of a site to compress the underlying soil;
- “**qualified professional**”, in relation to a duty or function under this Part, means an individual who
- (a) is registered in British Columbia with a professional organization, acts under that organization’s code of ethics and is subject to disciplinary action by that organization, and

(b) through suitable education, experience, accreditation and knowledge may reasonably be relied on to provide advice within the individual's area of expertise, which area of expertise is applicable to the duty or function;

“receiving site” means a site at which soil is deposited;

“source site” means a site from which soil is removed;

“transit system” has the same meaning as in the *Transportation Act*;

“winter-maintenance sand” means sand that is applied to roadways or other surfaces for the purpose of managing icy conditions.

Definition of “waste” in the Act

- 41** (1) For the purposes of the definition of “waste” in section 1 (1) of the Act, a soil is prescribed as waste in relation to a receiving site if
- (a) the concentration of any substance in the soil is greater than
 - (i) the generic numerical soil standard applicable to the receiving site, or
 - (ii) the lowest value of the matrix numerical soil standards applicable to the receiving site, or
 - (b) the concentration of any substance in vapour emissions from the soil is greater than the generic numerical vapour standard applicable to the receiving site.
- (2) Subsection (1) (a) does not apply in relation to a substance if the concentration of the substance in soil is not greater than
- (a) the applicable site-specific numerical standard, or
 - (b) the background concentration of that substance in soil at the receiving site.
- (3) Subsection (1) (b) does not apply in relation to a substance if
- (a) the concentration of the substance in vapour is not greater than
 - (i) the applicable site-specific numerical standard, or
 - (ii) the background concentration of that substance in vapour at the receiving site, or
 - (b) the soil is exempt under subsection (4) from vapour analysis.
- (4) For the purposes of subsection (3) (b), soil is exempt from vapour analysis if
- (a) the soil does not contain any volatile chlorinated substance set out in Schedule 3.1, and
 - (b) the soil does not contain any substance with a concentration greater than
 - (i) the generic numerical soil standard for a low density residential land use, or
 - (ii) the lowest value of the matrix numerical soil standards for a low density residential land use.

Division 2 – Removal of Soil

Removal of soil

- 42** (1) Section 55 (1.1) [*removal of soil – notice*] of the Act applies to the removal of soil from a source site to a receiving site unless the soil is exempt under
- (a) section 55 (1.4) [*removal of small amounts of soil*] of the Act,
 - (b) section 55 (5) [*removal of soil that is waste*] of the Act, or
 - (c) subsection (2) of this section.
- (2) A removal of soil to a receiving site is exempt from section 55 (1.1) of the Act in any of the following circumstances:
- (a) the receiving site is outside of British Columbia;
 - (b) the receiving site is on federal land, other than a reserve within the meaning of the *Indian Act* (Canada);
 - (c) the source site has not been used other than for a low-impact land use or mining of marl, earth, soil, peat, sand, gravel, dimension stone, rock or any natural substance that is used for a construction purpose on land and the soil was
 - (i) extracted in accordance with a permit under the *Mines Act*, and
 - (ii) transported directly to the receiving site;
 - (d) the soil is pre-load that was originally extracted from a site used for a low-impact land use, whether or not the source site is used for a low-impact land use;
 - (e) the soil is winter-maintenance sand.
- (3) For the purposes of section 55 (1.4) of the Act, the following amount of soil is prescribed as exempt from section 55 (1.1) of the Act:
- (a) in the case of soil removed from a source site classified under a director's protocol as low, moderate, medium or intermediate risk, the prescribed amount is 30 cubic metres calculated in accordance with subsection (4) of this section;
 - (b) in the case of soil removed from a source site classified under a director's protocol as high risk, no amount is prescribed.
- (4) For the purposes of subsection (3) (a), the amount of soil removed is to be calculated by adding the amounts removed over the course of the same project in any period of 2 years.

Notice of removal of soil

- 43** (1) A notice under section 55 (1.1) [*removal of soil – notice*] of the Act must be
- (a) in the form set out in Schedule 8, and
 - (b) provided to the minister by a qualified professional, through a website maintained by or on behalf of the minister, at least one week and no more than 2 years before the removal of the soil to which the notice relates.
- (2) For the purposes of section 55 (1.2) (a) (iv) of the Act, a summary of an analysis of the quality of soil must identify

- (a) which substances in the soil or in vapours emitted from the soil were analyzed, and
 - (b) the concentrations of those substances.
- (3) For the purposes of section 55 (1.2) (a) (v) of the Act, a notice under section 55 (1.1) must include the information specified in the form set out in Schedule 8.

Division 3 – High Volume Sites

Definitions

44 In this Division:

“**high volume site**” means a site in relation to which section 55.1 (2) [*high volume soil receiving sites*] of the Act applies;

“**managed soil**”, in relation to a high volume site, means relocated industrial or commercial site soil that is

- (a) relocated to the site, and
- (b) not exempt under section 45 (3).

High volume sites

- 45** (1) For the purposes of section 55.1 (2) of the Act, the prescribed amount is 20 000 cubic metres.
- (2) Section 55.1 (2) of the Act does not apply in relation to a waste management facility.
- (3) Subject to subsection (4), section 55.1 (2) of the Act does not apply in relation to soil that is relocated to a site in any of the following circumstances:
- (a) the soil is relocated to the site before November 1, 2022,
 - (b) the soil does not meet any of the following criteria:
 - (i) the concentration of any substance in the soil is greater than
 - (A) the generic numerical soil standard applicable to a site that is used for a low-impact land use, or
 - (B) the lowest value of the matrix numerical soil standards applicable to a site that is used for a low-impact land use;
 - (ii) the concentration of any substance in vapour emissions from the soil is greater than the generic numerical vapour standard applicable to a site that is used for a low-impact land use;
 - (c) subject to subsection (4), the soil is relocated to a site of any of the following facilities in the course of constructing or maintaining the facility:
 - (i) a highway;
 - (ii) a transit system;
 - (iii) a pipeline;
 - (iv) a sewage collection system;
 - (v) a drainage collection system that is below ground;
 - (vi) a water distribution system;

- (vii) an electricity transmission or distribution system;
 - (viii) a telecommunications line or tower;
 - (ix) a right of way required for infrastructure described in any of subparagraphs (i) to (viii);
 - (x) dikes, green shores or other structures constructed to prevent flooding or erosion.
- (4) The exemption under subsection (3) (c) does not apply in relation to soil that is relocated to a site described in that subsection if
- (a) the site is within 10 metres of
 - (i) a watercourse or body of water, whether or not usually containing water, or
 - (ii) any of the following that is connected by surface flow to a watercourse or body of water referred to in subparagraph (i):
 - (A) a ditch, whether or not usually containing water;
 - (B) a spring, whether or not usually containing water;
 - (C) a wetland, and
 - (b) the soil contains an organic substance with a concentration greater than
 - (i) the generic numerical soil standard applicable to a site that is used for a low-impact land use, or
 - (ii) the lowest value of the matrix numerical soil standards applicable to a site that is used for a low-impact land use.

Registration of high volume site

- 46** (1) For the purposes of section 55.1 (2) (a) of the Act, the owner of a high volume site must register the site with the minister.
- (2) An application for registration under subsection (1) must be
- (a) in the form set out in Schedule 8.1, and
 - (b) submitted by a qualified professional through a website maintained by or on behalf of the minister.

Soil management plan

- 46.1** (1) For the purposes of section 55.1 (2) (a) of the Act, the owner of a high volume site must
- (a) have a soil management plan for the site, and
 - (b) manage the site in accordance with that soil management plan until the site is closed.
- (2) A soil management plan for a high volume site must be
- (a) developed by a qualified professional, and
 - (b) approved by an approved professional other than the qualified professional who developed the plan.
- (3) A soil management plan for a high volume site must

- (a) ensure the managed soil at the site is contained so that substances in that soil do not migrate from the site in concentrations sufficient to cause contamination at another site, and
- (b) without limiting paragraph (a),
 - (i) set out procedures for
 - (A) the detailed tracking of the source sites of the managed soil at the site and the locations at the site where the managed soil from each source site is deposited, and
 - (B) seasonal groundwater monitoring, and
 - (ii) include a plan for closure of the high volume site.
- (4) A soil management plan under subsection (1) for a high volume site must be implemented under the supervision of a qualified professional.
- (5) A closure plan under subsection (3) (b) (ii) must provide that the site must not be closed until
 - (a) the operator has ceased accepting relocated industrial or commercial site soil for deposit at the site, other than soil exempt under section 45 (3), and
 - (b) an approved professional has given an opinion that
 - (i) the substances in the managed soil at the site are stable, in accordance with the director’s protocols, and
 - (ii) seasonal groundwater monitoring is no longer required for the purposes described in subsection (3) (a) of this section.
- (6) An opinion referred to in subsection (5) (b) must be in writing and must set out the reasons on which the opinion is based.
- (7) The owner of a high volume site must retain a copy of the soil management plan for the site for at least 10 years after the site is closed.

8 *Schedule 1 is repealed and the attached Schedule 1 is substituted.*

9 *Schedule 2 is repealed.*

10 *The attached Schedule 2 is added.*

11 *Schedule 3 is amended*

(a) in the heading to Table 1 by striking out “Site Profiles” and substituting “Site Disclosure Statements”,

(b) in item 1 of Table 1

(i) by striking out “Site Profiles” in the heading and substituting “Site Disclosure Statements”, and

(ii) by striking out “site profile” and substituting “site disclosure statement”,

(c) in Table 2 by repealing item 3 (a), and

(d) in Table 3

- (i) by striking out “contaminated soil relocation agreement,” in item 1, and*
- (ii) by striking out “site profile” and substituting “site disclosure statement” in item 2.*

12 *Schedules 3.1 to 3.4 are repealed and the attached Schedules 3.1 to 3.4 are substituted.*

13 *Schedule 8 is repealed and the attached Schedule 8 is substituted.*

14 *The attached Schedule 8.1 is added.*

SCHEDULE 1

Site Disclosure Statement

All fields marked with a red asterisk (*) are mandatory.

Has the site been used for any industrial or commercial uses described in [SCHEDULE 2](#) of the Contaminated Sites Regulation? *

- Yes
 No

If you answered NO to the question above, the form is not submitted to the ministry. As per Section 3.5 of the Contaminated Sites Regulation, a municipality or approving officer may still request a person to complete a site disclosure statement for their records.

If you answered YES to the question above, you must complete this form if no exemptions apply.

Exemptions

Do any of the exemptions from submitting a site disclosure statement apply? (see the [CONTAMINATED SITES REGULATION](#), Part 2, Division 3) *

- Yes
 No

If YES, indicate which exemption applies. As per Section 3.5 of the Contaminated Sites Regulation, a municipality or approving officer may still request a person to complete a site disclosure statement for their records. *

Select one

Description

Include additional information as needed

Section I - CONTACT INFORMATION

A: SITE OWNER(S) OR OPERATOR(S)

Last name *

First name *

Company, if applicable

Address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

B: PERSON COMPLETING SITE DISCLOSURE STATEMENT (leave blank if same as above)

Agent authorized to complete form on behalf of the owner or operator

Last name

First name

Company, if applicable

C: PERSON TO CONTACT REGARDING THE SITE DISCLOSURE STATEMENT

Last name *

First name *

Company, if applicable

Address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

Section II - SITE INFORMATION

Coordinates for the centre of the site:

Latitude

Degrees *

Minutes *

Seconds *

Longitude

Degrees *

Minutes *

Seconds *

Attention:

A separate map with appropriate scale showing the location and boundaries of the site must be included.

I will include a map with my submission *

Land ownership *

- Legally titled, registered property
- Untitled Crown land

For legally titled, registered property

Site address or nearest street name/intersection if no address is assigned *

City *

Postal code *

PID *

Land description *

For untitled Crown land

PIN *

Land description *

And if available: Crown land file numbers

Section III - SPECIFIED INDUSTRIAL OR COMMERCIAL USES

Indicate all the industrial or commercial uses described in the Contaminated Sites Regulation [SCHEDULE 2](#) which have occurred or are occurring on this site.

Example Schedule 2 references and descriptions

E1. appliance, equipment, or engine maintenance, repair, reconditioning, cleaning or salvage

F10. solvent manufacturing, bulk storage, shipping and handling

Schedule 2 reference and description *

Select all that apply, choose "none" if no Schedule 2 uses apply.

Section IV - ADDITIONAL INFORMATION

1. Provide a brief summary of the planned activity and proposed land use at the site. *

If not applicable, type N/A

2. Indicate the information used to complete this site disclosure statement including a list of record searches completed. *

3. List any past or present government orders, permits, approvals, certificates or notifications pertaining to the environmental condition of the site: *

If not applicable, type N/A

Section V - DECLARATIONS

Where a municipal approval is not required, you must indicate the reason for submission directly to the registrar:

- | | | |
|--|--|---|
| <input type="checkbox"/> Under order | <input type="checkbox"/> Foreclosure | <input type="checkbox"/> CCAA proceedings |
| <input type="checkbox"/> BIA proceedings | <input type="checkbox"/> Decommissioning | <input type="checkbox"/> Ceasing operations |

By signing below, I confirm that the information in this form is complete and accurate to the best of my knowledge:

SIGNATURE



Sign above

First and last name

- Owner
 Operator

Date signed

For agents completing this form, save to PDF then forward the form to the owner/operator to complete this section.

APPROVING AUTHORITY CONTACT INFORMATION

All fields in this section must be completed by the municipality (including regional districts) or approving officer prior to forwarding the form to the site registrar.

First and last name

Agency

Address

Phone number

Email

Reason for submission (Please check one or more of the following):

Building permit

Subdivision

Zoning

Development permit

for an activity that will likely disturb soil

for an activity that will likely disturb soil

Date received by approving authority



Date submitted to registrar



SCHEDULE 2
SPECIFIED INDUSTRIAL OR COMMERCIAL USES

A	<p>Chemical industries and activities</p> <ol style="list-style-type: none"> 1. adhesives manufacturing or bulk storage 2. chemical manufacturing or bulk storage 3. explosives or ammunition manufacturing or bulk storage 4. fire retardant manufacturing, bulk storage or shipping 5. fertilizer manufacturing, bulk storage or shipping 6. ink or dye manufacturing or bulk storage 7. leather or hides tanning 8. paint, lacquer or varnish manufacturing, formulation, recycling or bulk storage 9. pharmaceutical products, or controlled substances as defined in the <i>Controlled Drugs and Substances Act</i> (Canada), manufacturing or operations 10. plastic products (foam or expanded plastic) manufacturing or repurposing 11. textile dyeing 12. pesticide manufacturing, formulation, bulk storage or shipping 13. resin or plastic monomer manufacturing, formulation or bulk storage
B	<p>Electrical equipment and activities</p> <ol style="list-style-type: none"> 1. battery manufacturing, recycling or bulk storage 2. facilities using equipment that contains PCBs greater than or equal to 50 ppm 3. electrical equipment manufacturing, refurbishing or bulk storage 4. electrical transmission or distribution substations 5. electronic equipment manufacturing 6. transformer oil manufacturing, processing or bulk storage 7. electrical power generating operations fueled by coal or petroleum hydrocarbons that supply electricity to a community or commercial or industrial operation, excluding emergency generators.

C	<p>Metal smelting, processing or finishing industries and activities</p> <ol style="list-style-type: none"> 1. foundries 2. galvanizing 3. metal plating or finishing 4. metal salvage operations 5. metal smelting or refining 6. welding or machine shops (repair or fabrication)
D	<p>Mining, milling or related industries and activities at or near land surface</p> <ol style="list-style-type: none"> 1. asbestos mining, milling, bulk storage or shipping 2. coal coke manufacture, bulk storage or shipping 3. coal or lignite mining, milling, bulk storage or shipping 4. milling reagent manufacture, bulk storage or shipping 5. metal concentrate bulk storage or shipping 6. metal ore mining or milling
E	<p>Miscellaneous industries, operations or activities</p> <ol style="list-style-type: none"> 1. appliance, equipment or engine maintenance, repair, reconditioning, cleaning or salvage 2. ash deposit from boilers, incinerators or other thermal facilities 3. asphalt and asphalt tar manufacture, storage and distribution, including stationary asphalt batch plants 4. coal gasification (manufactured gas production) 5. medical, chemical, radiological or biological laboratories 6. outdoor firearm shooting ranges 7. road salt or brine storage 8. measuring instruments (containing mercury) manufacture, repair or bulk storage 9. dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations at which clothing is deposited but no dry cleaning process occurs 10. Repealed. 11. fire training facilities at which fire retardants are used 12. Repealed.

F	<p>Petroleum (including blends and biodiesels) and natural gas drilling, production, processing, retailing, distribution and commercial storage</p> <ol style="list-style-type: none"> 1. petroleum or natural gas drilling 2. petroleum or natural gas production facilities 3. natural gas processing 4. petroleum coke manufacture, bulk storage or shipping 5. petroleum product, other than compressed gas, dispensing facilities, including service stations and card locks 6. petroleum, natural gas or sulfur pipeline rights of way excluding rights of way for pipelines used to distribute natural gas to consumers in a community 7. petroleum product (other than compressed gas), or produced water storage in non-mobile above ground or underground tanks, except above ground tanks associated with emergency generators or with secondary containment 8. petroleum product, other than compressed gas, bulk storage or distribution 9. petroleum refining 10. solvent manufacturing or bulk storage 11. sulfur handling, processing, or bulk storage and distribution
G	<p>Transportation industries, operations and related activities</p> <ol style="list-style-type: none"> 1. aircraft maintenance, cleaning or salvage 2. automotive, truck, bus, subway or other motor vehicle maintenance, repair, salvage or wrecking 3. dry docks, marinas, shipbuilding or boat repair and maintenance, including paint removal from hulls 4. marine equipment salvage 5. rail car or locomotive maintenance, cleaning, salvage or related uses, including railyards
H	<p>Waste disposal and recycling operations and activities</p> <ol style="list-style-type: none"> 1. antifreeze bulk storage, recycling or shipping 2. barrel, drum or tank reconditioning or salvage 3. biomedical waste disposal 4. bulk manure stockpiling and high rate land application or disposal (nonfarm applications only) 5. landfilling of construction demolition material, including without limitation asphalt and concrete 6. contaminated soil or sediment storage, treatment, deposit or disposal 7. dry cleaning waste disposal 8. electrical equipment recycling 9. industrial waste lagoons or impoundments 10. industrial waste storage, recycling or landfilling

	<ul style="list-style-type: none"> 11. industrial woodwaste (log yard waste, hogfuel) disposal 12. mine tailings waste disposal 13. municipal waste storage, recycling, composting or landfilling 14. organic or petroleum material landspreading (landfarming) 15. sandblasting operations or sandblasting waste disposal 16. septic tank pumpage storage or disposal 17. sewage lagoons or impoundments 18. hazardous waste storage, treatment or disposal 19. sludge drying or composting 20. municipal or provincial road or yard snow removal dumping 21. waste oil reprocessing, recycling or bulk storage 22. wire reclaiming operations
I	<p>Wood, pulp and paper products and related industries and activities</p> <ul style="list-style-type: none"> 1. particle or wafer board manufacturing 2. pulp mill operations 3. pulp and paper manufacturing 4. treated wood storage at the site of treatment 5. veneer or plywood manufacturing 6. wood treatment (antisapstain or preservation) 7. wood treatment chemical manufacturing or bulk storage

SCHEDULE 3.1 – PART 1^{1,2}

Notes

- 1 All values in µg/g unless otherwise stated
- 2 NS – No Standard

**MATRIX 1 – NUMERICAL SOIL STANDARDS
ANTHRACENE (CHEMICAL ABSTRACT SERVICE NUMBER 120-12-7)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION									
Intake of contaminated soil	25 000	25 000	10 000	25 000	10 000	25 000	75 000	> 1 000 mg/g	
Groundwater used for drinking water	NS	NS	NS	NS	NS	NS	NS	NS	
ENVIRONMENTAL PROTECTION									
Toxicity to soil invertebrates and plants	1.5	2.5	2.5	2.5	2.5	30	30	30	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS	NS		

**MATRIX 2 – NUMERICAL SOIL STANDARDS
ARSENIC (CHEMICAL ABSTRACT SERVICE NUMBER 7440-38-2)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL_N)	Wildlands Reverted (WL_R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL_{LD})	Residential High Density (RL_{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION									
Intake of contaminated soil	40	40	20	40	20	40	150	400	
Groundwater used for drinking water	10	10	10	10	10	10	10	10	
ENVIRONMENTAL PROTECTION									
Toxicity to soil invertebrates and plants	15	25	25	25	25	40	40	40	
Livestock ingesting soil and fodder			25						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life									
Freshwater	10	10	10	10	10	10	10	10	
Marine	10	10	10	10	10	10	10	10	
Groundwater used for livestock watering			10						
Groundwater used for irrigation			10	10	10	10			

**MATRIX 3 – NUMERICAL SOIL STANDARDS
BARIUM (CHEMICAL ABSTRACT SERVICE NUMBER 7440-39-3)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	1.5 000	1.5 000	8 500	1.5 000	8 500	15 000	50 000	> 1 000 mg/g	
Groundwater used for drinking water	350	350	350	350	350	350	350	350	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	350	700	700	700	700	1 500	1 500	1 500	
Livestock ingesting soil and fodder			400						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life									
Freshwater	3 500	3 500	3 500	3 500	3 500	3 500	3 500	3 500	
Marine	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1 500	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS			NS			

**MATRIX 4 – NUMERICAL SOIL STANDARDS¹
BENZENE (CHEMICAL ABSTRACT SERVICE NUMBER 71-43-2)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	350	350	150	350	150	350	1 000	6 500	
Groundwater used for drinking water	0 035	0 035	0 035	0 035	0 035	0 035	0 035	0 035	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	35	100	100	100	100	250	250	250	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life									
Freshwater	2 5	2 5	2 5	2 5	2 5	2 5	2 5	2 5	
Marine	6 5	6 5	6 5	6 5	6 5	6 5	6 5	6 5	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

**MATRIX 5 – NUMERICAL SOIL STANDARDS
BENZO(A)PYRENE (CHEMICAL ABSTRACT SERVICE NUMBER 50-32-8)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	10	10	5	10	5	10	30	50	
Groundwater used for drinking water	NS	NS	NS	NS	NS	NS	NS	NS	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	15	20	20	20	20	70	70	70	
Livestock ingesting soil and fodder			NS	NS	NS				
Major microbial functional impairment			NS	NS	NS				
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

**MATRIX 6 – NUMERICAL SOIL STANDARDS
BERYLLIUM (CHEMICAL ABSTRACT SERVICE NUMBER 7440-41-7)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	150	150	85	150	85	150	500	15 000	
Groundwater used for drinking water									
pH < 5.5	1	1	1	1	1	1	1	1	1
pH 5.5 – < 6.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1
pH 6.0 – < 6.5	4	4	4	4	4	4	4	4	1
pH 6.5 – < 7.0	20	20	20	20	20	20	20	20	1
pH 7.0 – < 7.5	150	150	150	150	150	150	150	150	1
pH 7.5 – < 8.0	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1
pH ≥ 8.0	2 500	2 500	2 500	2 500	2 500	2 500	2 500	2 500	1
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	75	150	150	150	150	350	350	350	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life									
Freshwater									
pH < 6.5	1	1	1	1	1	1	1	1	1
pH 6.5 – < 7.0	4	4	4	4	4	4	4	4	1
pH 7.0 – < 7.5	30	30	30	30	30	30	30	30	1
pH 7.5 – < 8.0	250	250	250	250	250	250	250	250	1

pH ≥ 8.0	500	500	500	500	500	500	500	500	500	500	500	1
Marine	85	85	85	85	85	85	85	85	85	85	85	1
pH < 5.0	100	100	100	100	100	100	100	100	100	100	100	1
pH 5.0 – < 5.5	200	200	200	200	200	200	200	200	200	200	200	1
pH 5.5 – < 6.0	500	500	500	500	500	500	500	500	500	500	500	1
pH 6.0 – < 6.5	2 500	2 500	2 500	2 500	2 500	2 500	2 500	2 500	2 500	2 500	2 500	1
pH 6.5 – < 7.0	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	1
pH 7.0 – < 7.5	150 000	150 000	150 000	150 000	150 000	150 000	150 000	150 000	150 000	150 000	150 000	1
pH 7.5 – < 8.0	350 000	350 000	350 000	350 000	350 000	350 000	350 000	350 000	350 000	350 000	350 000	1
pH ≥ 8.0												1
Groundwater used for livestock watering												
pH < 5.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	1
pH 5.0 – < 5.5	10	10	10	10	10	10	10	10	10	10	10	1
pH 5.5 – < 6.0	20	20	20	20	20	20	20	20	20	20	20	1
pH 6.0 – < 6.5	55	55	55	55	55	55	55	55	55	55	55	1
pH 6.5 – < 7.0	250	250	250	250	250	250	250	250	250	250	250	1
pH 7.0 – < 7.5	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	1
pH 7.5 – < 8.0	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	1
pH ≥ 8.0	35 000	35 000	35 000	35 000	35 000	35 000	35 000	35 000	35 000	35 000	35 000	1
Groundwater used for irrigation												
pH < 5.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	1
pH 5.0 – < 5.5	10	10	10	10	10	10	10	10	10	10	10	1
pH 5.5 – < 6.0	20	20	20	20	20	20	20	20	20	20	20	1
pH 6.0 – < 6.5	55	55	55	55	55	55	55	55	55	55	55	1
pH 6.5 – < 7.0	250	250	250	250	250	250	250	250	250	250	250	1
pH 7.0 – < 7.5	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	1
pH 7.5 – < 8.0	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	1
pH ≥ 8.0	35 000	35 000	35 000	35 000	35 000	35 000	35 000	35 000	35 000	35 000	35 000	1

Notes

1 The pH is the pH of the soil at a site

**MATRIX 7 – NUMERICAL SOIL STANDARDS
CADMIUM (CHEMICAL ABSTRACT SERVICE NUMBER 7440-43-9)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{L,D})	Residential High Density (RL _{H,D})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	40	40	20	40	20	40	150	3 500	
Groundwater used for drinking water pH < 7.0 pH 7.0 – < 7.5 pH 7.5 – < 8.0 pH ≥ 8.0	1 4.5 30 70	1 4.5 30 70	1 4.5 30 70	1 4.5 30 70	1 4.5 30 70	1 4.5 30 70	1 4.5 30 70	1 4.5 30 70	1 1 1 1
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants Livestock ingesting soil and fodder Major microbial functional impairment	15	30	30	30	30	75	75	75	
Groundwater flow to surface water used by aquatic life Freshwater pH < 7.0 pH 7.0 – < 7.5 pH 7.5 – < 8.0 pH ≥ 8.0	1 3 20 50	1 3 20 50	1 3 20 50	1 3 20 50	1 3 20 50	1 3 20 50	1 3 20 50	1 3 20 50	1,2 1,2 1,2 1,2
Marine pH < 5.5 pH 5.5 – < 6.0	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 1

pH 6.0 - < 6.5	2	2	2	2	2	2	2	2	2	1
pH 6.5 - < 7.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	1
pH 7.0 - < 7.5	15	15	15	15	15	15	15	15	15	1
pH 7.5 - < 8.0	95	95	95	95	95	95	95	95	95	1
pH ≥ 8.0	200	200	200	200	200	200	200	200	200	1
Groundwater used for livestock watering										
pH < 5.0						4.5				1
pH 5.0 - < 5.5						6				1
pH 5.5 - < 6.0						8.5				1
pH 6.0 - < 6.5						10				1
pH 6.5 - < 7.0						20				1
pH 7.0 - < 7.5						75				1
pH 7.5 - < 8.0						500				1
pH ≥ 8.0						1 000				1
Groundwater used for irrigation										
pH < 7.0						1		1	1	1
pH 7.0 - < 7.5						4.5		4.5	4.5	1
pH 7.5 - < 8.0						30		30	30	1
pH ≥ 8.0						70		70	70	1

Notes

- 1 The pH is the pH of the soil at a site
- 2 Standard varies with receiving water hardness (H) H = 150 to < 210 mg/L as CaCO₃ is assumed If the receiving water hardness is outside of this specified range, modify the standard in accordance with a director's protocol

**MATRIX 8 – NUMERICAL SOIL STANDARDS
CHLORIDE ION (CHEMICAL ABSTRACT SERVICE NUMBER 16887-00-6)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	
Groundwater used for drinking water	100	100	100	100	100	100	100	100	1
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	200	350	350	350	350	2 500	2 500	2 500	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life, freshwater	600	600	600	600	600	600	600	600	1
Groundwater used for livestock watering			250						1
Groundwater used for irrigation			40	40	40	40			1

Notes

- Standard varies with Kd (partition coefficient) for chloride ion in the soil of a site. Standard is appropriate to a chloride:soil Kd range of 0 to 0.1 mL/g if the Kd for chloride is outside of this specified range, modify the standard in accordance with a director's protocol.

**MATRIX 9 – NUMERICAL SOIL STANDARDS
CHROMIUM (CHEMICAL ABSTRACT SERVICE NUMBER 7440-47-3)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	W d and s Natural (WL_N)	W d and s Reverted (WL_R)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RL_{LD})	Res dent a H gh Dens ty (RL_{HD})	Commerc a (CL)	Industr a (IL)	
HUMAN HEALTH PROTECTION	250	250	100	250	100	250	750	20 000	1
Intake of contaminated soil	60	60	60	60	60	60	60	60	2
Groundwater used for drinking water	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	3
ENVIRONMENTAL PROTECTION	100	200	200	200	200	250	250	250	1
Toxicity to soil invertebrates and plants									
Livestock ingesting soil and fodder	60	60	150						2
Major microbial functional impairment	300 000	300 000	60	300 000	300 000	300 000	300 000	300 000	3
Groundwater flow to surface water used by aquatic life	60	60	60	60	60	60	60	60	2
Freshwater	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	> 1 000 mg/g	3
Marine									
Groundwater used for livestock watering	60	60	60	60	60	60	60	60	2
	150 000	150 000	150 000	150 000	150 000	150 000	150 000	150 000	3

Groundwater used for irrigation			60 15 000	60 15 000	60 15 000	60 15 000	60 15 000	2
								3

Notes

- 1 Standard is based on chromium (all species)
- 2 Standard is for chromium, hexavalent
- 3 Standard is for chromium, trivalent

**MATRIX 10 – NUMERICAL SOIL STANDARDS
COBALT (CHEMICAL ABSTRACT SERVICE NUMBER 7440-48-4)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL-N)	Wildlands Reverted (WL-R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL-LD)	Residential High Density (RL-HD)	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	2.5	2.5	2.5	2.5	2.5	2.5	7.5	2 000	
Groundwater used for drinking water	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	2.5	4.5	4.5	4.5	4.5	200	200	200	
Livestock ingesting soil and fodder			2.50						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Groundwater used for livestock watering			1.50						
Groundwater used for irrigation			2.5	2.5	2.5	2.5			

**MATRIX 11 – NUMERICAL SOIL STANDARDS
COPPER (CHEMICAL ABSTRACT SERVICE NUMBER 7440-50-8)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL_N)	Wildlands Reverted (WL_R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL_{LD})	Residential High Density (RL_{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	7 500	7 500	3 500	7 500	3 500	7 500	25 000	700 000	
Groundwater used for drinking water	250	250	250	250	250	250	250	250	1
pH < 5.0	500	500	500	500	500	500	500	500	1
pH 5.0 – < 5.5	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	1
pH 5.5 – < 6.0	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	1
pH 6.0 – < 6.5	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	1
pH 6.5 – < 7.0	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	1
pH ≥ 7.0									1
ENVIRONMENTAL PROTECTION									
Toxicity to soil invertebrates and plants	85	150	150	150	150	300	300	300	
Livestock ingesting soil and fodder			150						
Major microbial functional impairment			350						
Groundwater flow to surface water used by aquatic life									
Freshwater	75	75	75	75	75	75	75	75	1,2
pH < 5.5	100	100	100	100	100	100	100	100	1,2
pH 5.5 – < 6.0	700	700	700	700	700	700	700	700	1,2
pH 6.0 – < 6.5	3 000	3 000	3 000	3 000	3 000	3 000	3 000	3 000	1,2
pH 6.5 – < 7.0	6 500	6 500	6 500	6 500	6 500	6 500	6 500	6 500	1,2
pH 7.0 – < 7.5									1,2

pH ≥ 7.5	7 500	7 500	7 500	7 500	7 500	7 500	7 500	7 500	1,2
Marine									
pH < 6.0	75	75	75	75	75	75	75	75	1
pH 6.0 – < 6.5	150	150	150	150	150	150	150	150	1
pH 6.5 – < 7.0	650	650	650	650	650	650	650	650	1
pH ≥ 7.0	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1
Groundwater used for livestock watering									
pH < 5.0									1
pH 5.0 – < 5.5									1
pH 5.5 – < 6.0									1
pH 6.0 – < 6.5									1
pH 6.5 – < 7.0									1
pH 7.0 – < 7.5									1
pH ≥ 7.5									1
Groundwater used for irrigation									
pH < 5.5									1
pH 5.5 – < 6.0									1
pH 6.0 – < 6.5									1
pH 6.5 – < 7.0									1
pH ≥ 7.0									1

Notes

- 1 The pH is the pH of the soil at a site
- 2 Standard varies with receiving water hardness (H) H ≥ 200 mg/L as CaCO₃ is assumed If the receiving water hardness is outside of this specified range, modify the standard in accordance with a director's protocol

**MATRIX 12 – NUMERICAL SOIL STANDARDS
CYANIDE (CHEMICAL ABSTRACT SERVICE NUMBER 57-12-5)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	50	50	25	50	25	50	150	4 000	
Groundwater used for drinking water	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	2	3	3	3	3	10	10	10	
Livestock ingesting soil and fodder			11						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life									
Freshwater	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Marine	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

MATRIX 13 – NUMERICAL SOIL STANDARDS¹
DICHLORODIPHENYLTRICHLOROETHANE, TOTAL [DDT]
(CHEMICAL ABSTRACT SERVICE NUMBER NOT APPLICABLE)

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	40	40	20	40	20	40	150	1 000	
Groundwater used for drinking water	NS	NS	NS	NS	NS	NS	NS	NS	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	0.45	0.7	0.7	0.7	0.7	10	10	10	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

Notes

1 Standards are for the sum of DDT (2,4' + 4,4' isomers), DDD (2,4' + 4,4' isomers) and DDE (2,4' + 4,4' isomers)

**MATRIX 14 – NUMERICAL SOIL STANDARDS
DIISOPROPANOLAMINE [DIPA] (CHEMICAL ABSTRACT SERVICE NUMBER 110-97-4)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	30 000	30 000	15 000	30 000	15 000	30 000	100 000	> 1 000 mg/g	
Groundwater used for drinking water	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	600	750	750	750	750	1 000	1 000	1 000	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	6	6	6	6	6	6	6	6	1
Groundwater used for livestock watering			15						1
Groundwater used for irrigation			15	15	15	15			1

Notes

- 1 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item F2, F3, F7 or F10.

**MATRIX 15 – NUMERICAL SOIL STANDARDS
ETHYLBENZENE (CHEMICAL ABSTRACT SERVICE NUMBER 100-41-4)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	8 500	8 500	4 000	8 500	4 000	8 500	25 000	700 000	
Groundwater used for drinking water	15	15	15	15	15	15	15	15	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	100	200	200	200	200	650	650	650	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life									
Freshwater	200	200	200	200	200	200	200	200	
Marine	200	200	200	200	200	200	200	200	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS			NS			

**MATRIX 16 – NUMERICAL SOIL STANDARDS
ETHYLENE GLYCOL (CHEMICAL ABSTRACT SERVICE NUMBER 107-21-1)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil Groundwater used for drinking water	150 000 10	150 000 10	85 000 10	150 000 10	85 000 10	150 000 10	500 000 10	> 1 000 mg/g 10	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants Livestock ingesting soil and fodder Major microbial functional impairment Groundwater flow to surface water used by aquatic life Groundwater used for livestock watering Groundwater used for irrigation	3 000 700	4 000 700	4 000 NS NS 700 NS NS	4 000 700	4 000 700	6 000 700 NS	6 000 700	6 000 700	

**MATRIX 17 – NUMERICAL SOIL STANDARDS
FLUORANTHENE (CHEMICAL ABSTRACT SERVICE NUMBER 206-44-0)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	3 500	3 500	1 500	3 500	1 500	3 500	10 000	300 000	
Groundwater used for drinking water	NS	NS	NS	NS	NS	NS	NS	NS	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	30	50	50	50	50	200	200	200	
Livestock ingesting soil and fodder			NS	NS	NS				
Major microbial functional impairment			NS	NS	NS				
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

**MATRIX 18 – NUMERICAL SOIL STANDARDS
LEAD (CHEMICAL ABSTRACT SERVICE NUMBER 7439-92-1)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	W d ands Natura (WL _N)	W d ands Reverted (WL _R)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RL _{LD})	Res dent a H gh Dens ty (RL _{HD})	Commerc a (CL)	Industr a (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	120	120	120	120	120	120	150	4 000	
Groundwater used for drinking water	120	120	120	120	120	120	120	120	1
pH < 5.5	150	150	150	150	150	150	150	150	1
pH 5.5 – < 6.0	800	800	800	800	800	800	800	800	1
pH 6.0 – < 6.5	3 500	3 500	3 500	3 500	3 500	3 500	3 500	3 500	1
pH 6.5 – < 7.0	7 500	7 500	7 500	7 500	7 500	7 500	7 500	7 500	1
pH 7.0 – < 7.5	8 500	8 500	8 500	8 500	8 500	8 500	8 500	8 500	1
pH ≥ 7.5									
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	400	550	550	550	550	1 000	1 000	1 000	
Livestock ingesting soil and fodder			350						
Major microbial functional impairment			700						
Groundwater flow to surface water used by aquatic life	200	200	200	200	200	200	200	200	1,2
Freshwater	350	350	350	350	350	350	350	350	1,2
pH 5.0 – < 5.5	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1,2
pH 5.5 – < 6.0	8 500	8 500	8 500	8 500	8 500	8 500	8 500	8 500	1,2
pH 6.0 – < 6.5	35 000	35 000	35 000	35 000	35 000	35 000	35 000	35 000	1,2
pH 6.5 – < 7.0									

pH 7.0 - < 7.5	80 000	80 000	80 000	80 000	80 000	80 000	80 000	80 000	80 000	1.2
pH ≥ 7.5	90 000	90 000	90 000	90 000	90 000	90 000	90 000	90 000	90 000	1.2
Marine										
pH < 5.5	120	120	120	120	120	120	120	120	120	1
pH 5.5 - < 6.0	300	300	300	300	300	300	300	300	300	1
pH 6.0 - < 6.5	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1
pH 6.5 - < 7.0	6 500	6 500	6 500	6 500	6 500	6 500	6 500	6 500	6 500	1
pH ≥ 7.0	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	15 000	1
Groundwater used for livestock watering										
pH < 5.0			150							1
pH 5.0 - < 5.5			350							1
pH 5.5 - < 6.0			1 500							1
pH 6.0 - < 6.5			8 000							1
pH 6.5 - < 7.0			35 000							1
pH 7.0 - < 7.5			75 000							1
pH ≥ 7.5			85 000							1
Groundwater used for irrigation										
pH < 5.0			350				350			1
pH 5.0 - < 5.5			650				650			1
pH 5.5 - < 6.0			3 000				3 000			1
pH 6.0 - < 6.5			15 000				15 000			1
pH 6.5 - < 7.0			65 000				65 000			1
pH ≥ 7.0			150 000				150 000			1

Notes

- 1 The pH is the pH of the soil at a site
- 2 Standard varies with receiving water hardness (H) H = 200 to < 300 mg/L as CaCO₃ is assumed If the receiving water hardness is outside of this specified range, modify the standard in accordance with a director's protocol

**MATRIX 19 – NUMERICAL SOIL STANDARDS
MANGANESE (CHEMICAL ABSTRACT SERVICE NUMBER 7439-96-5)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{L,D})	Residential High Density (RL _{H,D})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	10 000	10 000	6 000	10 000	6 000	10 000	35 000	> 1 000 mg/g	
Groundwater used for drinking water	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	1,2
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			2 000	2 000	2 000	2 000			1,2

Notes

- 1 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
 - (a) item B1,
 - (b) item C1, C3 or C4,
 - (c) item D2, D3, D5 or D6,
 - (d) item E4, or
 - (e) item H12
- 2 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H9 or H18 but only if the site was used for that purpose or activity in conjunction with or as a result of the site also being used for at least one of the purposes or activities set out in Note 1

**MATRIX 20 – NUMERICAL SOIL STANDARDS
MERCURY (CHEMICAL ABSTRACT SERVICE NUMBER 7439-97-6)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{L,D})	Residential High Density (RL _{H,D})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	25	25	10	25	10	25	75	2 000	
Groundwater used for drinking water	NS	NS	NS	NS	NS	NS	NS	NS	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	25	40	40	40	40	75	75	75	
Livestock ingesting soil and fodder			0.6						
Major microbial functional impairment			20						
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

**MATRIX 21 – NUMERICAL SOIL STANDARDS
METHANOL (CHEMICAL ABSTRACT SERVICE NUMBER 67-56-1)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	40 000	40 000	20 000	40 000	20 000	40 000	150 000	> 1 000 mg/g	
Groundwater used for drinking water	15	15	15	15	15	15	15	15	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	750	1 000	1 000	1 000	1 000	1 500	1 500	1 500	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS	NS	NS	

**MATRIX 22 – NUMERICAL SOIL STANDARDS
MOLYBDENUM (CHEMICAL ABSTRACT SERVICE NUMBER 7439-98-7)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	400	400	200	400	200	400	1 500	35 000	
Groundwater used for drinking water	15	15	15	15	15	15	15	15	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	60	80	80	80	80	150	150	150	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	650	650	650	650	650	650	650	650	
Groundwater used for livestock watering			3 5						
Groundwater used for irrigation			3	3	3	3			

**MATRIX 23 – NUMERICAL SOIL STANDARDS
NAPHTHALENE (CHEMICAL ABSTRACT SERVICE NUMBER 91-20-3)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	1 500	1 500	850	1 500	850	1 500	5 000	150 000	
Groundwater used for drinking water	100	100	100	100	100	100	100	100	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	0 4	0 6	0 6	0 6	0 6	20	20	20	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	75	75	75	75	75	75	75	75	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS			NS			

MATRIX 24 – NUMERICAL SOIL STANDARDS¹
NICKEL (CHEMICAL ABSTRACT SERVICE NUMBER 7440-02-0)

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL-N)	Wildlands Reverted (WL-R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL-LD)	Residential High Density (RL-HD)	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	900	900	450	900	450	900	3 000	80 000	
Groundwater used for drinking water	70	70	70	70	70	70	70	70	1
pH < 7.5	250	250	250	250	250	250	250	250	1
pH 7.5 – < 8.0	500	500	500	500	500	500	500	500	1
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	100	150	150	150	150	250	250	250	
Livestock ingesting soil and fodder			250						
Major microbial functional impairment			150						
Groundwater flow to surface water used by aquatic life	90	90	90	90	90	90	90	90	1,2
Freshwater	100	100	100	100	100	100	100	100	1,2
pH < 5.0	150	150	150	150	150	150	150	150	1,2
pH 5.0 – < 5.5	200	200	200	200	200	200	200	200	1,2
pH 5.5 – < 6.0	300	300	300	300	300	300	300	300	1,2
pH 6.0 – < 6.5	900	900	900	900	900	900	900	900	1,2
pH 6.5 – < 7.0	5 000	5 000	5 000	5 000	5 000	5 000	5 000	5 000	1,2
pH 7.0 – < 7.5	9 500	9 500	9 500	9 500	9 500	9 500	9 500	9 500	1,2
pH 7.5 – < 8.0									
pH ≥ 8.0									

Marine pH < 7.5 pH 7.5 - < 8.0 pH ≥ 8.0	70 250 500	70 250 500	70 250 500	70 250 500	70 250 500	70 250 500	70 250 500	70 250 500	1 1 1
Groundwater used for livestock watering pH < 5.0 pH 5.0 - < 5.5 pH 5.5 - < 6.0 pH 6.0 - < 6.5 pH 6.5 - < 7.0 pH 7.0 - < 7.5 pH 7.5 - < 8.0 pH ≥ 8.0		70 80 100 150 200 600 3 500 6 500							1 1 1 1 1 1 1 1
Groundwater used for irrigation pH < 7.0 pH 7.0 - < 7.5 pH 7.5 - < 8.0 pH ≥ 8.0		70 100 650 1 500							1 1 1 1

Notes

- 1 The pH is the pH of the soil at a site
- 2 Standard varies with receiving water hardness (H) H > 180 mg/L as CaCO₃ is assumed If the receiving water hardness is outside of this specified range, modify the standard in accordance with a director's protocol

**MATRIX 25 – NUMERICAL SOIL STANDARDS¹
NONYLPHENOL AND NONYLPHENOL ETHOXYLATES
(CHEMICAL ABSTRACT SERVICE NUMBER N/A)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
S t e-spec f c Factor	W d and s Natura (WLN)	W d and s Reverted (WLR)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RLLD)	Res dent a H gh Dens ty (RLHD)	Commerc a (CL)	Industr a (IL)	
	400	400	200	400	200	400	1 000	35 000	
	20	20	20	20	20	20	20	20	2
HUMAN HEALTH PROTECTION									
Intake of contaminated soil	400	400	200	400	200	400	1 000	35 000	
Groundwater used for drinking water	20	20	20	20	20	20	20	20	2
ENVIRONMENTAL PROTECTION									
Toxicity to soil invertebrates and plants	3 5	5 5	5 5	5 5	5 5	1 5	1 5	1 5	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life									
Freshwater	4	4	4	4	4	4	4	4	2
Marine	3	3	3	3	3	3	3	3	2
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS	NS	NS	

Notes

- 1 Nonylphenol includes related nonylphenolic and octylphenolic compounds, including ethoxylates
- 2 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
 - (a) item A6, A8, A10 or A12,
 - (b) item H9, H16 or H17, or
 - (c) item I2 or I3

**MATRIX 26 – NUMERICAL SOIL STANDARDS
PENTACHLOROPHENOL [PCP] (CHEMICAL ABSTRACT SERVICE NUMBER 87-86-5)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	200	200	90	200	90	200	550	900	
Groundwater used for drinking water	300	300	300	300	300	300	300	300	1
pH < 5.0	200	200	200	200	200	200	200	200	1
pH 5.0 – < 5.5	75	75	75	75	75	75	75	75	1
pH 5.5 – < 6.0	9	9	9	9	9	9	9	9	1
pH 6.0 – < 6.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1
pH 6.5 – < 7.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1
pH ≥ 7.0									
ENVIRONMENTAL PROTECTION									
Toxicity to soil invertebrates and plants	10	25	25	25	25	55	55	55	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	300	300	300	300	300	300	300	300	1,2
pH < 5.0	150	150	150	150	150	150	150	150	1,2
pH 5.0 – < 5.5	2	2	2	2	2	2	2	2	1,2
pH 5.5 – < 6.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1,2
pH 6.0 – < 6.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1,2
pH ≥ 6.5									

Groundwater used for livestock watering										
pH < 5.0						300				1
pH 5.0 - < 5.5						200				1
pH 5.5 - < 6.0						65				1
pH 6.0 - < 6.5						4.5				1
pH 6.5 - < 7.0						1.5				1
pH ≥ 7.0						0.75				1
Groundwater used for irrigation						NS			NS	

Notes

- 1 The pH is the pH of the soil at a site
- 2 Water standard varies with the temperature of the receiving surface water. A surface water temperature of 20°C or below was assumed. If the receiving water temperature is outside of this range, modify the standard in accordance with a director's protocol

**MATRIX 27 – NUMERICAL SOIL STANDARDS
PERFLUOROCTANE SULFONATE [PFOS] (CHEMICAL ABSTRACT SERVICE NUMBER 1763-23-1)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	2.5	2.5	1	2.5	1	2.5	7.5	200	
Groundwater used for drinking water	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	1
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	40	70	70	70	70	150	150	150	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	9	9	9	9	9	9	9	9	1
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

Notes

- 1 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
 (a) item A4,
 (b) item C3,
 (c) item E10, or
 (d) item G1

**MATRIX 28 – NUMERICAL SOIL STANDARDS
PHENOL (CHEMICAL ABSTRACT SERVICE NUMBER 108-95-2)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	25 000	25 000	10 000	25 000	10 000	25 000	75 000	> 1 000 mg/g	
Groundwater used for drinking water	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	80	150	150	150	150	200	200	200	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	15	15	15	15	15	15	15	15	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS	NS	NS	

**MATRIX 29 – NUMERICAL SOIL STANDARDS¹
POLYCHLORINATED BIPHENYLS, TOTAL [PCBs]
(CHEMICAL ABSTRACT SERVICE NUMBER 1336-36-3)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL-N)	Wildlands Reverted (WL-R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL-LD)	Residential High Density (RL-HD)	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	10	10	5	10	5	10	35	900	
Groundwater used for drinking water	NS	NS	NS	NS	NS	NS	NS	NS	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	0.8	1.5	1.5	1.5	1.5	35	35	35	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

Notes

- 1 PCBs, total in soil represent the sum of Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268. Dioxin-like polychlorinated biphenyls must also be evaluated as polychlorinated dioxins and furans

MATRIX 30 – NUMERICAL SOIL STANDARDS¹
POLYCHLORINATED DIOXINS AND FURANS, TOTAL [PCDDs AND PCDFs]
(CHEMICAL ABSTRACT SERVICE NUMBER 1746-01-6)

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	0.0002	0.0002	0.000095	0.0002	0.000095	0.0002	0.0006	0.015	
Groundwater used for drinking water	NS	NS	NS	NS	NS	NS	NS	NS	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	0.00065	0.001	0.00001	0.001	0.001	0.0025	0.0025	0.0025	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

Notes

1 Polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) expressed as 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) toxicity equivalent includes those substances for which 2,3,7,8-TCDD Toxicity Equivalency Factors (TEFs) are provided below:

2,3,7,8-TCDD Toxicity Equivalency Factors (IPCS-TEFs) for Dioxins, Furans and Dioxin-like Polychlorinated Biphenyls (PCBs)			
Polychlorinated dibenzo-p-dioxins	IPCS-TEF	Polychlorinated dibenzofurans	IPCS-TEF
2,3,7,8-T ₄ CDD	1.0	2,3,7,8-T ₄ CDF	0.1
1,2,3,7,8-P ₅ CDD	1.0	1,2,3,7,8-P ₅ CDF	0.03
1,2,3,4,7,8-H ₆ CDD	0.1	2,3,4,7,8-P ₅ CDF	0.3
1,2,3,6,7,8-H ₆ CDD	0.1	1,2,3,4,7,8-H ₆ CDF	0.1
1,2,3,7,8,9-H ₆ CDD	0.1	1,2,3,6,7,8-H ₆ CDF	0.1
1,2,3,4,6,7,8,-H ₇ CDD	0.01	1,2,3,7,8,9-H ₆ CDF	0.1
O ₈ CDD	0.0003	2,3,4,6,7,8-H ₆ CDF	0.1
		1,2,3,4,6,7,8-H ₇ CDF	0.01
		1,2,3,4,7,8,9-H ₇ CDF	0.01
		O ₈ CDF	0.0003
Non-ortho substituted PCBs	IPCS-TEF	Mono-ortho substituted PCBs	IPCS-TEF
3,3',4,4'-T ₄ CB (PCB 77)	0.0001	2,3,3',4,4'-P ₅ CB (PCB 105)	0.0003
3,4,4',5'-T ₄ CB (PCB 81)	0.0003	2,3,4,4',5'-P ₅ CB (PCB 114)	0.0003
3,3',4,4',5'-P ₅ CB (PCB 126)	0.1	2,3',4,4',5'-P ₅ CB (PCB 118)	0.0003
3,3',4,4',5,5'-H ₆ CB (PCB 169)	0.03	2',3,4,4',5-H ₆ CB (PCB 123)	0.0003
		2,3,3',4,4',5-H ₆ CB (PCB 156)	0.0003
		2,3,3',4,4',5'-H ₆ CB (PCB 157)	0.0003
		2,3',4,4',5,5'-H ₆ CB (PCB 167)	0.0003
		2,3,3',4,4',5,5'-H ₇ CB (PCB 189)	0.0003

**MATRIX 31 – NUMERICAL SOIL STANDARDS
SELENIUM (CHEMICAL ABSTRACT SERVICE NUMBER 7782-49-2)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	400	400	200	400	200	400	1 500	35 000	
Groundwater used for drinking water	1	1	1	1	1	1	1	1	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	1.5	1.5	1.5	1.5	1.5	2	2	2	
Livestock ingesting soil and fodder			2						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	1	1	1	1	1	1	1	1	
Groundwater used for livestock watering			1						
Groundwater used for irrigation			1	1	1	1			1

Notes

1 Standard applies where irrigation water is used for continuous or intermittent irrigation of crops

**MATRIX 32 – NUMERICAL SOIL STANDARDS
SODIUM ION (CHEMICAL ABSTRACT SERVICE NUMBER 17341-25-2)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
	> 1 000 mg/g 15 000	> 1 000 mg/g 15 000	> 1 000 mg/g 15 000	> 1 000 mg/g 15 000	> 1 000 mg/g 15 000	> 1 000 mg/g 15 000	> 1 000 mg/g 15 000	> 1 000 mg/g 15 000	
HUMAN HEALTH PROTECTION Intake of contaminated soil Groundwater used for drinking water	150	200	200	200	200	1 000	1 000	1 000	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants Livestock ingesting soil and fodder Major microbial functional impairment Groundwater flow to surface water used by aquatic life Groundwater used for livestock watering Groundwater used for irrigation	NS	NS	NS	NS	NS	NS	NS	NS	

**MATRIX 33 – NUMERICAL SOIL STANDARDS
SULFOLANE (CHEMICAL ABSTRACT SERVICE NUMBER 126-33-0)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	800	800	400	800	400	800	2,500	70,000	
Groundwater used for drinking water	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	250	350	350	350	350	500	500	500	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	200	200	200	200	200	200	200	200	1
Groundwater used for livestock watering			5.5						1
Groundwater used for irrigation			3	3	3	3			1

Notes

- 1 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item F2, F3, F7 or F10

**MATRIX 34 – NUMERICAL SOIL STANDARDS
TETRACHLOROETHYLENE (CHEMICAL ABSTRACT SERVICE NUMBER 127-18-4)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil Groundwater used for drinking water	500	500	250	500	250	500	1 500	40 000	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants Livestock ingesting soil and fodder Major microbial functional impairment Groundwater flow to surface water used by aquatic life Groundwater used for livestock watering Groundwater used for irrigation	6 2.5	15	15 NS NS 2.5 NS	15 2.5	15 2.5	30 2.5	30 2.5	30 2.5	

**MATRIX 35 – NUMERICAL SOIL STANDARDS
TOLUENE (CHEMICAL ABSTRACT SERVICE NUMBER 108-88-3)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	6 500	6 500	3 500	6 500	3 500	6 500	20 000	550 000	
Groundwater used for drinking water	6	6	6	6	6	6	6	6	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	90	150	150	150	150	450	450	450	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life									
Freshwater	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Marine	200	200	200	200	200	200	200	200	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS			

**MATRIX 36 – NUMERICAL SOIL STANDARDS
TRICHLOROETHYLENE (CHEMICAL ABSTRACT SERVICE NUMBER 79-01-6)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil Groundwater used for drinking water	40	40	20	40	20	40	150	3 500	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants Livestock ingesting soil and fodder Major microbial functional impairment Groundwater flow to surface water used by aquatic life Groundwater used for livestock watering Groundwater used for irrigation	8 0.3	15 0.3	15 NS NS 0.3	15 0.3	15 0.3	25 0.3	25 0.3	25 0.3	

**MATRIX 37 – NUMERICAL SOIL STANDARDS
URANIUM (CHEMICAL ABSTRACT SERVICE NUMBER 7440-61-1)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	250	250	100	250	100	250	750	20 000	
Groundwater used for drinking water	30	30	30	30	30	30	30	30	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	300	500	500	500	500	2 000	2 000	2 000	
Livestock ingesting soil and fodder			35						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	150	150	150	150	150	150	150	150	
Groundwater used for livestock watering			300						
Groundwater used for irrigation			15	15	15	15			

**MATRIX 38 – NUMERICAL SOIL STANDARDS
VANADIUM (CHEMICAL ABSTRACT SERVICE NUMBER 7440-62-2)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	400	400	200	400	200	400	1 500	35 000	
Groundwater used for drinking water	100	100	100	100	100	100	100	100	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	100	150	150	150	150	300	300	300	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			250						
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	
Groundwater used for livestock watering			350						
Groundwater used for irrigation			350	350	350	350			

**MATRIX 39 – NUMERICAL SOIL STANDARDS
XYLENES (CHEMICAL ABSTRACT SERVICE NUMBER 1330-20-7)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	15 000	15 000	8 500	15 000	8 500	15 000	50 000	> 1 000 mg/g	
Groundwater used for drinking water	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	100	150	150	150	150	600	600	600	
Livestock ingesting soil and fodder			NS						
Major microbial functional impairment			NS						
Groundwater flow to surface water used by aquatic life	20	20	20	20	20	20	20	20	
Groundwater used for livestock watering			NS						
Groundwater used for irrigation			NS	NS	NS	NS	NS	NS	

**MATRIX 40 – NUMERICAL SOIL STANDARDS
ZINC (CHEMICAL ABSTRACT SERVICE NUMBER 7440-66-6)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL_N)	Wildlands Reverted (WL_R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL_{LD})	Residential High Density (RL_{HD})	Commercial (CL)	Industrial (IL)	
HUMAN HEALTH PROTECTION Intake of contaminated soil	25 000	25 000	10 000	25 000	10 000	25 000	75 000	> 1 000 mg/g	
Groundwater used for drinking water	200	200	200	200	200	200	200	200	1
pH < 5.0	250	250	250	250	250	250	250	250	1
pH 5.0 – < 5.5	300	300	300	300	300	300	300	300	1
pH 5.5 – < 6.0	450	450	450	450	450	450	450	450	1
pH 6.0 – < 6.5	600	600	600	600	600	600	600	600	1
pH 6.5 – < 7.0	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1
pH 7.0 – < 7.5	3 000	3 000	3 000	3 000	3 000	3 000	3 000	3 000	1
pH 7.5 – < 8.0	5 500	5 500	5 500	5 500	5 500	5 500	5 500	5 500	1
pH ≥ 8.0									
ENVIRONMENTAL PROTECTION									
Toxicity to soil invertebrates and plants	300	450	450	450	450	450	450	450	
Livestock ingesting soil and fodder			200						
Major microbial functional impairment			200						
Groundwater flow to surface water used by aquatic life									
Freshwater	150	150	150	150	150	150	150	150	1,2
pH < 6.0	250	250	250	250	250	250	250	250	1,2
pH 6.0 – < 6.5	350	350	350	350	350	350	350	350	1,2
pH 6.5 – < 7.0									

pH 7.0 – < 7.5	600	600	600	600	600	600	600	600	600	1,2
pH 7.5 – < 8.0	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1,2
pH ≥ 8.0	3 000	3 000	3 000	3 000	3 000	3 000	3 000	3 000	3 000	1,2
Marine										
pH < 8.0	150	150	150	150	150	150	150	150	150	1
pH ≥ 8.0	200	200	200	200	200	200	200	200	200	1
Groundwater used for livestock watering										
pH < 5.5										1
pH 5.5 – < 6.0										1
pH 6.0 – < 6.5										1
pH 6.5 – < 7.0										1
pH 7.0 – < 7.5										1
pH 7.5 – < 8.0										1
pH ≥ 8.0										1
Groundwater used for irrigation										
pH < 6.0										1
pH 6.0 – < 6.5										1
pH 6.5 – < 7.0										1
pH 7.0 – < 7.5										1
pH 7.5 – < 8.0										1
pH ≥ 8.0										1

Notes

- 1 The pH is the pH of the soil at a site
- 2 Standard varies with receiving water hardness (H) H = 200 to < 300 mg/L as CaCO₃ is assumed. If the receiving water hardness is outside of this specified range, identify the applicable standard using a director's protocol

**SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
acenaphthene	83-32-9	2 000	2 000	950	2 000	950	2 000	15 000	15 000
acephate	30560-19-1	100	100	60	100	60	100	950	950
acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	94-74-6	15	15	8	15	8	15	100	100
acetochlor	34256-82-1	650	650	300	650	300	650	4 500	4 500
acetone	67-64-1	30 000	30 000	15 000	30 000	15 000	30 000	200 000	200 000
acetophenone	98-86-2	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
acrolein	107-02-8	15	15	8	15	8	15	100	100
acrylamide	79-06-1	6	6	3	6	3	6	65	65
acrylic acid	79-10-7	15 000	15 000	8 000	15 000	8 000	15 000	100 000	100 000
acrylonitrile	107-13-1	25	25	15	25	15	25	60	60
adipic acid	124-04-9	65 000	65 000	30 000	65 000	30 000	65 000	450 000	450 000
alachlor	15972-60-8	250	250	100	250	100	250	600	600
aldicarb	116-06-3	30	30	15	30	15	30	250	250
aldicarb sulfone	1646-88-4	30	30	15	30	15	30	250	250
aldrin	309-00-2	0.8	0.8	0.4	0.8	0.4	0.8	2	2
allyl alcohol	107-18-6	150	150	80	150	80	150	1 000	1 000
allyl chloride	107-05-1	650	650	350	650	350	650	1 500	1 500
aluminum	7429-90-5	40 000	40 000	40 000	40 000	40 000	40 000	250 000	250 000
ametryn	834-12-8	300	300	150	300	150	300	2 000	2 000
aminobiphenyl, 4-	92-67-1	0.65	0.65	0.35	0.65	0.35	0.65	1.5	1.5
aminophenol, 3-	591-27-5	2 500	2 500	1 500	2 500	1 500	2 500	20 000	20 000
aminophenol, 4-	123-30-8	650	650	300	650	300	650	4 500	4 500
amitraz	33089-61-1	80	80	40	80	40	80	600	600
aniline	62-53-3	200	200	100	200	100	200	1 500	1 500
anthraquinone, 9,10-	84-65-1	65	65	30	65	30	65	450	450
antimony	7440-36-0	500	500	250	500	250	500	1 500	40 000
aramite	140-57-8	550	550	300	550	300	550	1 500	1 500

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
asbestos	1332-21-4	1%	1%	1%	1%	1%	1%	1%	1%
asulam	3337-71-1	1 500	1 500	800	1 500	800	1 500	10 000	10 000
atrazine	1912-24-9	60	60	30	60	30	60	150	150
auramine	492-80-8	15	15	8	15	8	15	35	35
avermectin B1 (a + b)	71751-41-2	10	10	6	10	6	10	95	95
aziphos-methyl	86-50-0	90	90	45	90	45	90	700	700
azobenzene	103-33-3	150	150	65	150	65	150	300	300
azodicarbonamide	123-77-3	30 000	30 000	15 000	30 000	15 000	30 000	250 000	250 000
benfluralin	1861-40-1	9 000	9 000	4 500	9 000	4 500	9 000	70 000	70 000
benomyl	17804-35-2	1 500	1 500	800	1 500	800	1 500	10 000	10 000
bensulfuron-methyl	83055-99-6	6 500	6 500	3 000	6 500	3 000	6 500	45 000	45 000
bentazon	25057-89-0	900	900	450	900	450	900	7 000	7 000
benz(a)anthracene	56-55-3	95	95	50	95	50	95	300	500
benzidine	92-87-5	0 015	0 015	0 0065	0 015	0 0065	0 015	0 15	0 15
benzo(b+j)fluoranthenes	205-99-2 & 205-82-3	95	95	50	95	50	95	300	500
benzo(k)fluoranthene	207-08-9	95	95	50	95	50	95	300	500
benzoic acid	65-85-0	100 000	100 000	60 000	100 000	60 000	100 000	950 000	950 000
benzotrifluoride	98-07-7	1	1	0 55	1	0 55	1	2 5	2 5
benzyl alcohol	100-51-6	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
benzyl chloride	100-44-7	65	65	30	65	30	65	200	200
bifenox	42576-02-3	300	300	150	300	150	300	2 000	2 000
bifenthrin	82657-04-3	500	500	250	500	250	500	3 500	3 500
biphenyl, 1,1'-	92-52-4	15 000	15 000	8 000	15 000	8 000	15 000	100 000	100 000
bis(2-chloro-1-methylethyl) ether	108-60-1	1 000	1 000	600	1 000	600	1 000	9 500	9 500
bis(2-chloroethoxy) methane	111-91-1	90	90	45	90	45	90	700	700
bis(2-chloroethyl) ether	111-44-4	2 5	2 5	1 5	2 5	1 5	2 5	6	6

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
bis(2-ethylhexyl) adipate	103-23-1	10 000	10 000	6 000	10 000	6 000	10 000	25 000	25 000
bis(2-ethylhexyl) phthalate [DEHP]	117-81-7	350	350	150	350	150	350	1 000	30 000
bisphenol A	80-05-7	1 500	1 500	800	1 500	800	1 500	10 000	10 000
boron	7440-42-8	15 000	15 000	8 500	15 000	8 500	15 000	50 000	> 1 000 mg/g
bromate	15541-45-4	20	20	10	20	10	20	45	45
bromo-2-chloroethane, 1-	107-04-0	7	7	3.5	7	3.5	7	15	15
bromobenzene	108-86-1	250	250	150	250	150	250	2 000	2 000
bromodichloromethane	75-27-4	200	200	100	200	100	200	550	550
bromoform	75-25-2	650	650	300	650	300	650	4 000	4 000
bromomethane	74-83-9	45	45	20	45	20	45	300	300
bromophos	2104-96-3	150	150	80	150	80	150	1 000	1 000
bromoxynil	1689-84-5	650	650	300	650	300	650	4 500	4 500
butadiene, 1,3-	106-99-0	4	4	2	4	2	4	9.5	9.5
butanoic acid, 4-(4-chloro-2-methylphenoxy)- [MCPB]	94-81-5	300	300	150	300	150	300	2 500	2 500
butanol, 2-	78-92-2	65 000	65 000	30 000	65 000	30 000	65 000	450 000	450 000
butanol, n-	71-36-3	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
butoxy ethanol, 2-	111-76-2	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
butyl benzyl phthalate	85-68-7	6 500	6 500	3 000	6 500	3 000	6 500	15 000	15 000
butyl phthalyl butyl glycolate	85-70-1	30 000	30 000	15 000	30 000	15 000	30 000	250 000	250 000
butylate	2008-41-5	1 500	1 500	800	1 500	800	1 500	10 000	10 000
butylated hydroxytoluene [BHT]	128-37-0	4 000	4 000	2 000	4 000	2 000	4 000	9 000	9 000
butylbenzene, n-	104-51-8	1 500	1 500	800	1 500	800	1 500	10 000	10 000
butylbenzene, sec-	135-98-8	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
butylbenzene, tert-	98-06-6	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
cacodylic acid	75-60-5	650	650	300	650	300	650	4 500	4 500

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
caprolactam	105-60-2	15 000	15 000	8 000	15 000	8 000	15 000	100 000	100 000
captafol	2425-06-1	65	65	30	65	30	65	200	200
captan	133-06-2	4 000	4 000	2 000	4 000	2 000	4 000	15 000	15 000
carbaryl	63-25-2	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
carbofuran	1563-66-2	150	150	80	150	80	150	1 000	1 000
carbon disulfide	75-15-0	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
carbon tetrachloride	56-23-5	350	350	150	350	150	350	1 000	5 000
carbosulfan	55285-14-8	300	300	150	300	150	300	2 500	2 500
carboxin	5234-68-4	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
chloramben	133-90-4	500	500	250	500	250	500	3 500	3 500
chloranil	118-75-2	35	35	15	35	15	35	80	80
chlordan (cis + trans)	5103-71-9 & 5103-74-2	15	15	8	15	8	15	95	95
chlordecone	143-50-0	1.5	1.5	0.7	1.5	0.7	1.5	3.5	3.5
chlorfenvinphos	470-90-6	20	20	10	20	10	20	150	150
chlorimuron, ethyl	90982-32-4	650	650	300	650	300	650	4 500	4 500
chloro-2-methylamine, 4-	95-69-2	90	90	45	90	45	90	350	350
chloroacetaldehyde, 2-	107-20-0	50	50	25	50	25	50	100	100
chloroaniline, p-	106-47-8	70	70	35	70	35	70	150	150
chlorobenzene	108-90-7	1 500	1 500	850	1 500	850	1 500	5 000	150 000
chlorobenzilate	510-15-6	150	150	65	150	65	150	300	300
chlorobenzoic acid, 4-	74-11-3	900	900	450	900	450	900	7 000	7 000
chlorobenzotrithloride, 4-	5216-25-1	0.7	0.7	0.35	0.7	0.35	0.7	1.5	1.5
chlorobenzotrifluoride, 4-	98-56-6	90	90	45	90	45	90	700	700
chlorobutane, 1-	109-69-3	1 000	1 000	600	1 000	600	1 000	9 500	9 500
chloroethanol, 2-	107-07-3	650	650	300	650	300	650	4 500	4 500
chloroform	67-66-3	850	850	400	850	400	850	2 500	70 000
chloronaphthalene, 2-	91-58-7	2 500	2 500	1 500	2 500	1 500	2 500	20 000	20 000

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
chloronitrobenzene, 2-	88-73-3	45	45	25	45	25	45	100	100
chloronitrobenzene, 4-	100-00-5	30	30	15	30	15	30	250	250
chlorophenol, 2-	95-57-8	400	400	200	400	200	400	1 500	35 000
chlorophenol, 3-	108-43-0	250	250	100	250	100	250	750	20 000
chlorophenol, 4-	106-48-9	250	250	100	250	100	250	750	20 000
chloroprene	126-99-8	650	650	300	650	300	650	4 500	4 500
chlorothalonil	1897-45-6	500	500	250	500	250	500	3 500	3 500
chlorotoluene, 2-	95-49-8	650	650	300	650	300	650	4 500	4 500
chlorotoluene, 4-	106-43-4	650	650	300	650	300	650	4 500	4 500
chlorpropham	101-21-3	6 500	6 500	3 000	6 500	3 000	6 500	45 000	45 000
chlorpyrifos	2921-88-2	30	30	15	30	15	30	250	250
chlorpyrifos-methyl	5598-13-0	300	300	150	300	150	300	2 500	2 500
chlorsulfuron	64902-72-3	1 500	1 500	800	1 500	800	1 500	10 000	10 000
chlorthal-dimethyl	1861-32-1	300	300	150	300	150	300	2 500	2 500
chlorthiophos	60238-56-4	25	25	15	25	15	25	200	200
chrysene	218-01-9	400	400	200	400	200	400	4 500	4 500
clofentezine	74115-24-5	400	400	200	400	200	400	3 000	3 000
crotonaldehyde, trans-	123-73-9	7 5	7 5	3 5	7 5	3 5	7 5	15	15
cyanazine	21725-46-2	15	15	8 5	15	8 5	15	40	40
cyanogen	460-19-5	30	30	15	30	15	30	250	250
cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	600	600	300	600	300	600	1 500	1 500
cyclohexanone	108-94-1	150 000	150 000	80 000	150 000	80 000	150 000	1 000 000	1 000 000
cyclohexene	110-83-8	150	150	80	150	80	150	1 000	1 000
cyclohexylamine	108-91-8	6 500	6 500	3 000	6 500	3 000	6 500	45 000	45 000
cyfluthrin	68359-37-5	800	800	400	800	400	800	6 000	6 000
cyhalothrin	68085-85-8	150	150	80	150	80	150	1 000	1 000
cypermethrin	52315-07-8	300	300	150	300	150	300	2 500	2 500

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
cyromazine	66215-27-8	250	250	100	250	100	250	2 000	2 000
dalapon	75-99-0	900	900	450	900	450	900	7 000	7 000
daminozide	1596-84-5	800	800	400	800	400	800	2 000	2 000
demeton	8065-48-3	1	1	0.6	1	0.6	1	9.5	9.5
diallate	2303-16-4	200	200	100	200	100	200	550	550
diaminotoluene, 2,5-	95-70-5	6.5	6.5	3	6.5	3	6.5	45	45
diazinon	333-41-5	20	20	10	20	10	20	150	150
dibenz(a,h)anthracene	53-70-3	10	10	5	10	5	10	30	50
dibenzo(a,e)pyrene	192-65-4	1	1	0.6	1	0.6	1	2.5	2.5
dibenzofuran	132-64-9	30	30	15	30	15	30	250	250
dibenzothiophene	132-65-0	300	300	150	300	150	300	2 500	2 500
dibromo-3-chloropropane, 1,2-	96-12-8	4	4	2	4	2	4	40	40
dibromobenzene, 1,3-	108-36-1	10	10	6	10	6	10	95	95
dibromobenzene, 1,4-	106-37-6	300	300	150	300	150	300	2 500	2 500
dibromochloromethane [DBCM]	124-48-1	150	150	85	150	85	150	400	400
dibromoethane, 1,2-	106-93-4	7	7	3.5	7	3.5	7	15	15
dibutyl phthalate [DBP]	84-74-2	8 500	8 500	4 000	8 500	4 000	8 500	25 000	700 000
dibutyltin	14488-53-0	9	9	4.5	9	4.5	9	70	70
dicamba	1918-00-9	900	900	450	900	450	900	7 000	7 000
dichloroacetic acid	79-43-6	100	100	60	100	60	100	650	650
dichlorobenzene, 1,2-	95-50-1	7 500	7 500	3 500	7 500	3 500	7 500	25 000	650 000
dichlorobenzene, 1,3-	541-73-1	2 500	2 500	1 000	2 500	1 000	2 500	7 500	200 000
dichlorobenzene, 1,4-	106-46-7	9 000	9 000	4 500	9 000	4 500	9 000	30 000	800 000
dichlorobenzidine, 3,3'-	91-94-1	30	30	15	30	15	30	75	75
dichlorodifluoromethane	75-71-8	6 500	6 500	3 000	6 500	3 000	6 500	45 000	45 000
dichlorodiphenyl sulfone, 4,4'-	80-07-9	25	25	15	25	15	25	200	200
dichloroethane, 1,1-	75-34-3	15 000	15 000	8 500	15 000	8 500	15 000	50 000	> 1 000 mg/g

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ²	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
dichloroethane, 1,2-	107-06-2	150	150	75	150	75	150	350	350
dichloroethylene, 1,1-	75-35-4	4 000	4 000	2 000	4 000	2 000	4 000	15 000	350 000
dichloroethylene, 1,2-cis-	156-59-2	150	150	85	150	85	150	500	15 000
dichloroethylene, 1,2-trans-	156-60-5	1 500	1 500	850	1 500	850	1 500	5 000	150 000
dichloromethane	75-09-2	500	500	250	500	250	500	1 500	40 000
dichlorophenol, 2,3-	576-24-9	250	250	100	250	100	250	750	20 000
dichlorophenol, 2,4-	120-83-2	250	250	100	250	100	250	750	20 000
dichlorophenol, 2,5-	583-78-8	250	250	100	250	100	250	750	20 000
dichlorophenol, 2,6-	87-65-0	250	250	100	250	100	250	750	20 000
dichlorophenol, 3,4-	95-77-2	250	250	100	250	100	250	750	20 000
dichlorophenol, 3,5-	591-35-5	250	250	100	250	100	250	750	20 000
dichlorophenoxy acetic acid, 2,4- [2,4-D]	94-75-7	300	300	150	300	150	300	2 500	2 500
dichlorophenoxy butyric acid, 2,4- [2,4-DB]	94-82-6	250	250	150	250	150	250	2 000	2 000
dichloropropane, 1,2-	78-87-5	1 000	1 000	600	1 000	600	1 000	3 500	10 000
dichloropropane, 1,3-	142-28-9	650	650	300	650	300	650	4 500	4 500
dichloropropanol, 2,3-	616-23-9	90	90	45	90	45	90	700	700
dichloropropene, 1,3- (cis + trans)	542-75-6	2 500	2 500	1 000	2 500	1 000	2 500	7 500	200 000
dichlorvos	62-73-7	15	15	8	15	8	15	100	100
dicrotophos	141-66-2	3	3	1.5	3	1.5	3	25	25
dicyclopentadiene	77-73-6	2 500	2 500	1 500	2 500	1 500	2 500	20 000	20 000
dieldrin	60-57-1	0.85	0.85	0.45	0.85	0.45	0.85	2	2
diethanolamine	111-42-2	65	65	30	65	30	65	450	450
diethyl ether	60-29-7	6 500	6 500	3 000	6 500	3 000	6 500	45 000	45 000
diethyl phthalate	84-66-2	25 000	25 000	15 000	25 000	15 000	25 000	200 000	200 000
diethyldithiocarbamate	392-74-5	10	10	5	10	5	10	25	25

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ²	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
diethylene glycol monobutyl ether	112-34-5	900	900	450	900	450	900	7 000	7 000
diethylene glycol monoethyl ether	111-90-0	2 000	2 000	950	2 000	950	2 000	15 000	15 000
diethylformamide	617-84-5	30	30	15	30	15	30	250	250
diflubenzuron	35367-38-5	650	650	300	650	300	650	4 500	4 500
disobutylene	25167-70-8	300	300	150	300	150	300	2 500	2 500
dimethipin	55290-64-7	650	650	300	650	300	650	4 500	4 500
dimethoate	60-51-5	6.5	6.5	3	6.5	3	6.5	45	45
dimethoxybenzidine, 3,3'-	119-90-4	8.5	8.5	4.5	8.5	4.5	8.5	20	20
dimethyl methylphosphonate	756-79-6	2 000	2 000	950	2 000	950	2 000	15 000	15 000
dimethylamino azobenzene, 4-[DAB]	60-11-7	3	3	1.5	3	1.5	3	7	7
dimethylaniline, 2,4-	95-68-1	65	65	30	65	30	65	150	150
dimethylaniline, N,N-[DMA]	121-69-7	65	65	30	65	30	65	450	450
dimethylbenz(a)anthracene, 7,12-	57-97-6	0.02	0.02	0.02	0.02	0.02	0.02	0.025	0.025
dimethylbenzidine, 3,3'-	119-93-7	1.5	1.5	0.65	1.5	0.65	1.5	3	3
dimethylformamide	68-12-2	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
dimethylhydrazine, 1,1-	57-14-7	3	3	1.5	3	1.5	3	25	25
dimethylphenol, 2,4-	105-67-9	1 500	1 500	850	1 500	850	1 500	5 000	150 000
dimethylphenol, 2,6-	576-26-1	50	50	25	50	25	50	150	4 000
dimethylphenol, 3,4-	95-65-8	85	85	40	85	40	85	250	7 000
dimethylterephthalate	120-61-6	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
dinitrobenzene, 1,2-	528-29-0	3	3	1.5	3	1.5	3	25	25
dinitrobenzene, 1,3-	99-65-0	3	3	1.5	3	1.5	3	25	25
dinitrobenzene, 1,4-	100-25-4	3	3	1.5	3	1.5	3	25	25

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
dinitro-o-cyclohexyl phenol, 4,6-	131-89-5	65	65	30	65	30	65	450	450
dinitrophenol, 2,4-	51-28-5	150	150	85	150	85	150	500	15 000
dinitrotoluene, 2,4-	121-14-2	45	45	20	45	20	45	100	100
dinitrotoluene, 2,6-	606-20-2	9	9	4.5	9	4.5	9	20	20
dinitrotoluene, 2-amino-4,6-	35572-78-2	65	65	30	65	30	65	450	450
dinitrotoluene, 4-amino-2,6-	19406-51-0	65	65	30	65	30	65	450	450
dinoseb	88-85-7	30	30	15	30	15	30	250	250
dioxane, 1,4-	123-91-1	150	150	70	150	70	150	350	350
diphenamid	957-51-7	900	900	450	900	450	900	7 000	7 000
diphenyl sulfone	127-63-9	25	25	15	25	15	25	200	200
diphenyl-1,4-benzenediamine, N,N'-	74-31-7	9	9	4.5	9	4.5	9	70	70
diphenylamine	122-39-4	800	800	400	800	400	800	6 000	6 000
diquat (as dibromide)	85-00-7	70	70	35	70	35	70	500	500
Direct Black 38	1937-37-7	2	2	1	2	1	2	4.5	4.5
Direct Blue 6	2602-46-2	2	2	0.95	2	0.95	2	4.5	4.5
Direct Brown 95	16071-86-6	2	2	1	2	1	2	5	5
disulfoton	298-04-4	1	1	0.6	1	0.6	1	9.5	9.5
diuron	330-54-1	65	65	30	65	30	65	450	450
dodine	2439-10-3	100	100	60	100	60	100	950	950
endosulfan I + II	115-29-7	500	500	250	500	250	500	1 500	40 000
endothall	145-73-3	650	650	300	650	300	650	4 500	4 500
endrin	72-20-8	9	9	4.5	9	4.5	9	70	70
EPTC	759-94-4	800	800	400	800	400	800	6 000	6 000
ethanol, 2-(2-methoxyethoxy)-	111-77-3	1 000	1 000	600	1 000	600	1 000	9 500	9 500
ethephon	16672-87-0	150	150	80	150	80	150	1 000	1 000
ethion	563-12-2	15	15	8	15	8	15	100	100

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
ethoxyethanol, 2-	110-80-5	3 000	3 000	1 500	3 000	1 500	3 000	20 000	20 000
ethoxyethanol acetate, 2-	111-15-9	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
ethyl acetate	141-78-6	30 000	30 000	15 000	30 000	15 000	30 000	200 000	200 000
ethyl acrylate	140-88-5	150	150	80	150	80	150	1 000	1 000
ethylene cyanohydrin	109-78-4	2 000	2 000	1 000	2 000	1 000	2 000	15 000	15 000
ethylene thiourea	96-45-7	2.5	2.5	1.5	2.5	1.5	2.5	20	20
ethylenediamine	107-15-3	3 000	3 000	1 500	3 000	1 500	3 000	20 000	20 000
ethylenimine	151-56-4	0.2	0.2	0.1	0.2	0.1	0.2	0.5	0.5
ethyl-p-nitrophenyl benzenethionophosphonate [EPN]	2104-64-5	0.3	0.3	0.15	0.3	0.15	0.3	2.5	2.5
fenamiphos	22224-92-6	8	8	4	8	4	8	60	60
fenpropathrin	39515-41-8	800	800	400	800	400	800	6 000	6 000
fenvalerate	51630-58-1	800	800	400	800	400	800	6 000	6 000
fluometuron	2164-17-2	400	400	200	400	200	400	3 000	3 000
fluorene	86-73-7	1 000	1 000	600	1 000	600	1 000	9 500	9 500
fluoride	16984-48-8	8 500	8 500	4 500	8 500	4 500	8 500	25 000	750 000
fluridone	59756-60-4	2 500	2 500	1 500	2 500	1 500	2 500	20 000	20 000
flurprimidol	56425-91-3	650	650	300	650	300	650	4 500	4 500
flusilazole	85509-19-9	20	20	10	20	10	20	150	150
flutolamil	66332-96-5	2 000	2 000	950	2 000	950	2 000	15 000	15 000
fluvaimate	69409-94-5	300	300	150	300	150	300	2 500	2 500
folpet	133-07-3	3 000	3 000	1 500	3 000	1 500	3 000	9 500	9 500
fomesafen	72178-02-0	75	75	35	75	35	75	150	150
fonofos	944-22-9	65	65	30	65	30	65	450	450
formaldehyde	50-00-0	6 500	6 500	3 000	6 500	3 000	6 500	45 000	45 000
formic acid	64-18-6	30 000	30 000	15 000	30 000	15 000	30 000	200 000	200 000
fosetyl	15845-66-6	90 000	90 000	45 000	90 000	45 000	90 000	700 000	700 000

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Number (CAS) ²	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
furane	110-00-9	30	30	15	30	15	30	250	250
furazolidone	67-45-8	3.5	3.5	2	3.5	2	3.5	8.5	8.5
furfural	98-01-1	90	90	45	90	45	90	700	700
furmecycloz	60568-05-0	450	450	250	450	250	450	1 000	1 000
furothiazole	531-82-8	9	9	4.5	9	4.5	9	20	20
glufosinate	53369-07-6	10	10	6	10	6	10	95	95
glycidaldehyde	765-34-4	10	10	6	10	6	10	95	95
glyphosate	1071-83-6	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
guanidine	113-00-8	300	300	150	300	150	300	2 500	2 500
haloxyfop, methyl	69806-40-2	1.5	1.5	0.8	1.5	0.8	1.5	10	10
HEPHS ²	NA	1 000	1 000	1 000	1 000	1 000	1 000	5 000	5 000
heptachlor	76-44-8	3	3	1.5	3	1.5	3	7.5	7.5
heptachlor epoxide	1024-57-3	0.4	0.4	0.2	0.4	0.2	0.4	3	3
hexabromobenzene	87-82-1	65	65	30	65	30	65	450	450
hexabromobiphenyl, 2,2',4,4',5,5'-	59536-65-1	0.09	0.09	0.045	0.09	0.045	0.09	0.2	0.2
hexachlorobenzene	118-74-1	65	65	35	65	35	65	200	450
hexachlorobutadiene	87-68-3	30	30	15	30	15	30	250	250
hexachlorocyclohexane, alpha-	319-84-6	2	2	1	2	1	2	5	5
hexachlorocyclohexane, beta-	319-85-7	8	8	4	8	4	8	20	20
hexachlorocyclohexane, gamma-	58-89-9	25	25	10	25	10	25	75	250
hexachlorocyclopentadiene	77-47-4	200	200	95	200	95	200	1 500	1 500
hexachloroethane	67-72-1	20	20	10	20	10	20	150	150
hexachlorophene	70-30-4	9	9	4.5	9	4.5	9	70	70
hexahydro-1,3,5-trinitro-1,3,5-triazine [RDX]	121-82-4	90	90	45	90	45	90	300	300
hexamethylphosphoramide	680-31-9	10	10	6	10	6	10	95	95

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
hexanone, 2-	591-78-6	150	150	80	150	80	150	1 000	1 000
hexazinone	51235-04-2	1 000	1 000	500	1 000	500	1 000	8 000	8 000
hexythiazox	78587-05-0	800	800	400	800	400	800	6 000	6 000
hydramethylnon	67485-29-4	9	9	4.5	9	4.5	9	70	70
hydrazine	302-01-2	4.5	4.5	2.5	4.5	2.5	4.5	10	10
hydroquinone	123-31-9	250	250	100	250	100	250	550	550
imazalil	35554-44-0	400	400	200	400	200	400	3 000	3 000
imazaquin	81335-37-7	8 000	8 000	4 000	8 000	4 000	8 000	60 000	60 000
imazethapyr	81335-77-5	8 000	8 000	4 000	8 000	4 000	8 000	60 000	60 000
indeno(1,2,3-cd)pyrene	193-39-5	95	95	50	95	50	95	30	500
iprodione	36734-19-7	1 000	1 000	600	1 000	600	1 000	9 500	9 500
iron	7439-89-6	35 000	35 000	35 000	35 000	35 000	35 000	150 000	150 000
isobutanol	78-83-1	9 000	9 000	4 500	9 000	4 500	9 000	70 000	70 000
isophorone	78-59-1	6 500	6 500	3 000	6 500	3 000	6 500	35 000	35 000
isopropalin	33820-53-0	500	500	250	500	250	500	3 500	3 500
isopropanol	67-63-0	65 000	65 000	30 000	65 000	30 000	65 000	450 000	450 000
isopropylbenzene	98-82-8	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
isoxaben	82558-50-7	1 500	1 500	800	1 500	800	1 500	10 000	10 000
lactofen	77501-63-4	65	65	30	65	30	65	450	450
LEPHs ⁴	NA	1 000	1 000	1 000	1 000	1 000	1 000	2 000	2 000
linuron	330-55-2	65	65	30	65	30	65	450	450
lithium	7439-93-2	65	65	30	65	30	65	450	450
malathion	121-75-5	650	650	300	650	300	650	4 500	4 500
malononitrile	109-77-3	3	3	1.5	3	1.5	3	2.5	2.5
mancozeb	8018-01-7	900	900	450	900	450	900	7 000	7 000
maneb	12427-38-2	150	150	80	150	80	150	1 000	1 000
mecoprop [MCPP]	93-65-2	30	30	15	30	15	30	250	250
merphos	150-50-5	0.9	0.9	0.45	0.9	0.45	0.9	7	7

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Number (CAS) ²	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
metaalaxyl	57837-19-1	2 000	2 000	950	2 000	950	2 000	15 000	15 000
methacrylonitrile	126-98-7	3	3	1 5	3	1 5	3	25	25
methamidophos	10265-92-6	1 5	1 5	0 8	1 5	0 8	1 5	10	10
methidathion	950-37-8	30	30	15	30	15	30	250	250
methomyl	16752-77-5	800	800	400	800	400	800	6 000	6 000
methoxy-5-nitroaniline, 2-	99-59-2	300	300	150	300	150	300	650	650
methoxychlor	72-43-5	150	150	80	150	80	150	1 000	1 000
methoxyethanol, 2-	109-86-4	150	150	80	150	80	150	1 000	1 000
methoxyethanol acetate, 2-	110-49-6	250	250	150	250	150	250	2 000	2 000
methyl acetate	79-20-9	30 000	30 000	15 000	30 000	15 000	30 000	250 000	250 000
methyl ethyl ketone [MEK]	78-93-3	20 000	20 000	9 500	20 000	9 500	20 000	150 000	150 000
methyl hydrazine	60-34-4	30	30	15	30	15	30	250	250
methyl mercury	22967-92-6	3	3	1 5	3	1 5	3	25	25
methyl methacrylate	80-62-6	45 000	45 000	20 000	45 000	20 000	45 000	300 000	300 000
methyl tert-butyl ether [MTBE]	1634-04-4	8 000	8 000	4 000	8 000	4 000	8 000	20 000	20 000
methyl-5-nitroaniline, 2-	99-55-8	650	650	300	650	300	650	3 500	3 500
methylaniline, 2-	95-53-4	20	20	10	20	10	20	50	50
methylaniline, 4-	106-49-0	100	100	60	100	60	100	950	950
methylaniline, N-	100-61-8	65	65	30	65	30	65	450	450
methylcholanthrene, 3-	56-49-5	0 15	0 15	0 07	0 15	0 07	0 15	1 5	1 5
methylene-bis(2-chloroaniline), 4,4'-	101-14-4	30	30	15	30	15	30	350	350
methylene-bis(N, N-dimethyl)aniline, 4,4'-	101-61-1	300	300	150	300	150	300	700	700
methylenebisbenzenamine, 4,4'-	101-77-9	8 5	8 5	4 5	8 5	4 5	8 5	20	20
methylnaphthalene, 1-	90-12-0	500	500	250	500	250	500	1 000	1 000
methylnaphthalene, 2-	91-57-6	100	100	60	100	60	100	950	950

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
methylphenol, 2-	95-48-7	4 000	4 000	2 000	4 000	2 000	4 000	15 000	350 000
methylphenol, 3-	108-39-4	4 000	4 000	2 000	4 000	2 000	4 000	15 000	350 000
methylphenol, 4-	106-44-5	400	400	200	400	200	400	1 500	35 000
methylphenol, 4-chloro-3-	59-50-7	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
methylstyrene, alpha-	98-83-9	2 000	2 000	1 000	2 000	1 000	2 000	15 000	15 000
metoachlor	51218-45-2	5 000	5 000	2 500	5 000	2 500	5 000	35 000	35 000
metribuzin	21087-64-9	800	800	400	800	400	800	6 000	6 000
metisulfuron-methyl	74223-64-6	8 000	8 000	4 000	8 000	4 000	8 000	60 000	60 000
mirex	2385-85-5	0 8	0 8	0 4	0 8	0 4	0 8	2	2
molinate	2212-67-1	65	65	30	65	30	65	450	450
monomethylarsonic acid	124-58-3	300	300	150	300	150	300	2 500	2 500
myclobutamil	88671-89-0	800	800	400	800	400	800	6 000	6 000
naled	300-76-5	65	65	30	65	30	65	450	450
naphthylamine, 2-	91-59-8	8	8	4	8	4	8	20	20
napropamide	15299-99-7	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
nitrate (as N)	14797-55-8	50 000	50 000	25 000	50 000	25 000	50 000	400 000	400 000
nitrite (as N)	14797-65-0	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
nitroaniline, 2-	88-74-4	300	300	150	300	150	300	2 500	2 500
nitroaniline, 4-	100-01-6	100	100	60	100	60	100	950	950
nitrobenzene	98-95-3	65	65	30	65	30	65	450	450
nitrofurazone	59-87-0	10	10	5 5	10	5 5	10	25	25
nitroglycerin	55-63-0	3	3	1 5	3	1 5	3	25	25
nitroguanidine	556-88-7	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
nitrophenol, 2-	88-75-5	2	2	0 1	2	1	2	10	10
nitrophenol, 4-	100-02-7	2	2	0 1	2	1	2	10	10
nitropyrene, 4-	57835-92-4	10	10	6	10	6	10	25	25
nitrosodiethanolamine, N-	1116-54-7	5	5	2 5	5	2 5	5	10	10

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
nitrosodiethylamine, N-[NDEA]	55-18-5	0.02	0.02	0.01	0.02	0.01	0.02	0.2	0.2
nitrosodimethylamine, N-[NDMA]	62-75-9	0.06	0.06	0.03	0.06	0.03	0.06	0.65	0.65
nitroso-di-N-butylamine, N-	924-16-3	2.5	2.5	1.5	2.5	1.5	2.5	6	6
nitroso-di-N-propylamine, N-	621-64-7	2	2	1	2	1	2	4.5	4.5
nitrosodiphenylamine, N-	86-30-6	3 000	3 000	1 500	3 000	1 500	3 000	6 500	6 500
nitrosomethylethylamine, N-	10595-95-6	0.65	0.65	0.3	0.65	0.3	0.65	1.5	1.5
nitrosomorpholine, N-	59-89-2	2	2	1	2	1	2	5	5
nitrosopiperidine, N-	100-75-4	1.5	1.5	0.75	1.5	0.75	1.5	3.5	3.5
nitrosopyrrolidine, N-	930-55-2	6.5	6.5	3.5	6.5	3.5	6.5	15	15
nitrotoluene, 2-	88-72-2	30	30	15	30	15	30	150	150
nitrotoluene, 3-	99-08-1	3	3	1.5	3	1.5	3	25	25
nitrotoluene, 4-	99-99-0	100	100	60	100	60	100	950	950
nonane, n-	111-84-2	9	9	4.5	9	4.5	9	70	70
nonaqueous phase liquids ⁵	NA	not present	not present	not present	not present	not present	not present	not present	not present
norflurazon	27314-13-2	1 000	1 000	600	1 000	600	1 000	9 500	9 500
octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine [HMX]	2691-41-0	1 500	1 500	800	1 500	800	1 500	10 000	10 000
octamethylpyrophosphoramide [OMPA]	152-16-9	65	65	30	65	30	65	450	450
octyl phthalate, di-n- [DNOP]	117-84-0	300	300	150	300	150	300	2 500	2 500
odorous substances ⁶	NA	not present	not present	not present	not present	not present	not present	not present	not present
oryzalin	19044-88-3	1 500	1 500	800	1 500	800	1 500	10 000	10 000
oxadiazon	19666-30-9	150	150	80	150	80	150	1 000	1 000
oxamyl	23135-22-0	800	800	400	800	400	800	6 000	6 000
oxyfluorfen	42874-03-3	90	90	45	90	45	90	700	700
paclobutrazol	76738-62-0	400	400	200	400	200	400	3 000	3 000

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
paraquat (as dichloride)	1910-42-5	150	150	70	150	70	150	1 000	1 000
parathion	56-38-2	200	200	95	200	95	200	1 500	1 500
parathion methyl	298-00-0	8	8	4	8	4	8	60	60
pebulate	1114-71-2	1 500	1 500	800	1 500	800	1 500	10 000	10 000
pendimethalin	40487-42-1	1 000	1 000	600	1 000	600	1 000	9 500	9 500
pentachlorobenzene, 1,2,3,4,5-	608-93-5	65	65	35	65	35	65	200	5 500
pentachloroethane	76-01-7	150	150	75	150	75	150	350	350
pentachloronitrobenzene [PCNB]	82-68-8	55	55	25	55	25	55	150	150
pentaerythritol tetranitrate [PETN]	78-11-5	65	65	30	65	30	65	450	450
perchlorate	14797-73-0	20	20	10	20	10	20	150	150
perfluorobutane sulfonate [PFBS]	375-73-5	650	650	300	650	300	650	4 500	4 500
permethrin (cis + trans)	52645-53-1	1 500	1 500	800	1 500	800	1 500	10 000	10 000
phenanthrene	85-01-8	3 500	3 500	1 500	3 500	1 500	3 500	10 000	300 000
phenmedipham	13684-63-4	8 000	8 000	4 000	8 000	4 000	8 000	60 000	60 000
phenol, 2-methyl-4,6-dinitro-	534-52-1	2.5	2.5	1.5	2.5	1.5	2.5	20	20
phenothiazine	92-84-2	15	15	8	15	8	15	100	100
phenylenediamine, m- [MPD]	108-45-2	200	200	95	200	95	200	1 500	1 500
phenylenediamine, o- [OPD]	95-54-5	300	300	150	300	150	300	700	700
phenylenediamine, p- [PPD]	106-50-3	6 000	6 000	3 000	6 000	3 000	6 000	45 000	45 000
phenylphenol, 2-phorate	90-43-7	7 000	7 000	3 500	7 000	3 500	7 000	15 000	15 000
phosmet	298-02-2	6.5	6.5	3	6.5	3	6.5	45	45
phthalic acid, p-	732-11-6	650	650	300	650	300	650	4 500	4 500
picloram	100-21-0	30 000	30 000	15 000	30 000	15 000	30 000	250 000	250 000
picramic acid	1918-02-1	2 000	2 000	1 000	2 000	1 000	2 000	15 000	15 000
	96-91-3	3	3	1.5	3	1.5	3	25	25

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
picric acid	88-89-1	30	30	15	30	15	30	200	200
pirimiphos- methyl	29232-93-7	300	300	150	300	150	300	2 500	2 500
prochloraz	67747-09-5	90	90	45	90	45	90	200	200
profluralin	26399-36-0	200	200	95	200	95	200	1 500	1 500
prometon	1610-18-0	500	500	250	500	250	500	3 500	3 500
prometryn	7287-19-6	100	100	60	100	60	100	950	950
propachlor	1918-16-7	400	400	200	400	200	400	3 000	3 000
propanil	709-98-8	150	150	80	150	80	150	1 000	1 000
propargite	2312-35-8	650	650	300	650	300	650	4 500	4 500
propargyl alcohol	107-19-7	65	65	30	65	30	65	450	450
propazine	139-40-2	650	650	300	650	300	650	4 500	4 500
propham	122-42-9	650	650	300	650	300	650	4 500	4 500
propiconazole	60207-90-1	400	400	200	400	200	400	3 000	3 000
propylbenzene, 1-	103-65-1	3 000	3 000	1 500	3 000	1 500	3 000	25 000	25 000
propylene glycol monomethyl ether	107-98-2	20 000	20 000	10 000	20 000	10 000	20 000	150 000	150 000
propylene oxide	75-56-9	60	60	30	60	30	60	150	150
propylamide	23950-58-5	2 500	2 500	1 000	2 500	1 000	2 500	20 000	20 000
pyrene	129-00-0	2 500	2 500	1 000	2 500	1 000	2 500	7 500	200 000
pyridine	110-86-1	30	30	15	30	15	30	250	250
quinalphos	13593-03-8	15	15	8	15	8	15	100	100
quinoline	91-22-5	4 5	4 5	2 5	4 5	2 5	4 5	10	10
quizalofop-ethyl	76578-14-8	300	300	150	300	150	300	2 000	2 000
resmethrin	10453-86-8	900	900	450	900	450	900	7 000	7 000
ronnel	299-84-3	1 500	1 500	800	1 500	800	1 500	10 000	10 000
rotenone	83-79-4	100	100	60	100	60	100	950	950
selenious acid	7783-00-8	150	150	80	150	80	150	1 000	1 000
sethoxydim	74051-80-2	3 000	3 000	1 500	3 000	1 500	3 000	20 000	20 000

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
silver	7440-22-4	400	400	200	400	200	400	1 500	35 000
silvex	93-72-1	250	250	150	250	150	250	2 000	2 000
simazine	122-34-9	100	100	60	100	60	100	250	250
strontium	7440-24-6	20 000	20 000	9 500	20 000	9 500	20 000	150 000	150 000
strychnine	57-24-9	9	9	4.5	9	4.5	9	70	70
styrene	100-42-5	15 000	15 000	8 500	15 000	8 500	15 000	50 000	> 1 000 mg/g
styrene-acrylonitrile [SAN] trimer (all isomers)	NA	90	90	45	90	45	90	700	700
sulfotep	3689-24-5	15	15	8	15	8	15	100	100
sulfur, elemental	7704-34-9			2 000					
TCMTB	21564-17-0	900	900	450	900	450	900	7 000	7 000
tebutiuron	34014-18-1	2 000	2 000	1 000	2 000	1 000	2 000	15 000	15 000
temephos	3383-96-8	650	650	300	650	300	650	4 500	4 500
terbacil	5902-51-2	400	400	200	400	200	400	3 000	3 000
terbufos	13071-79-9	0.8	0.8	0.4	0.8	0.4	0.8	6	6
terbutryn	886-50-0	30	30	15	30	15	30	250	250
tetrachlorobenzene, 1,2,3,4-	634-66-2	300	300	150	300	150	300	850	25 000
tetrachlorobenzene, 1,2,3,5-	634-90-2	40	40	20	40	20	40	150	3 500
tetrachlorobenzene, 1,2,4,5-	95-94-3	9	9	4.5	9	4.5	9	70	70
tetrachloroethane, 1,1,1,2-	630-20-6	550	550	250	550	250	550	1 500	1 500
tetrachloroethane, 1,1,2,2-	79-34-5	70	70	35	70	35	70	150	150
tetrachlorophenol, 2,3,4,5-	4901-51-3	250	250	100	250	100	250	750	20 000
tetrachlorophenol, 2,3,4,6-	58-90-2	2 500	2 500	1 000	2 500	1 000	2 500	7 500	200 000
tetrachlorophenol, 2,3,5,6-	935-95-5	250	250	100	250	100	250	750	20 000
tetrachlorovimphos	961-11-5	600	600	300	600	300	600	1 500	1 500
tetraethyl lead	78-00-2	0 003	0 003	0 0015	0 003	0 0015	0 003	0 025	0 025
tetrahydrofuran	109-99-9	30 000	30 000	15 000	30 000	15 000	30 000	200 000	200 000
tetryl	479-45-8	65	65	30	65	30	65	450	450

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
thallium	7440-28-0			2					
thiophenol	79277-27-3	400	400	200	400	200	400	3 000	3 000
thiobencarb	28249-77-6	300	300	150	300	150	300	2 500	2 500
thiocyanate	302-04-5	6.5	6.5	3	6.5	3	6.5	45	45
thiodiglycol	111-48-8	2 000	2 000	1 000	2 000	1 000	2 000	15 000	15 000
thiofanox	39196-18-4	9	9	4.5	9	4.5	9	70	70
thiofanate- methyl	23564-05-8	2 500	2 500	1 500	2 500	1 500	2 500	20 000	20 000
thiophenol	108-98-5	30	30	15	30	15	30	250	250
thiram	137-26-8	150	150	80	150	80	150	1 000	1 000
tin	7440-31-5	50 000	50 000	25 000	50 000	25 000	50 000	150 000	> 1 000 mg/g
toxaphene (all isomers)	8001-35-2	15	15	6.5	15	6.5	15	30	30
tralometrin	66841-25-6	250	250	100	250	100	250	2 000	2 000
triadimefon	43121-43-3	900	900	450	900	450	900	7 000	7 000
triallate	2303-17-5	400	400	200	400	200	400	3 000	3 000
triasulfuron	82097-50-5	300	300	150	300	150	300	2 500	2 500
tribenuron-methyl	101200-48-0	250	250	150	250	150	250	2 000	2 000
tribromobenzene, 1,2,4-	615-54-3	150	150	80	150	80	150	1 000	1 000
tribufos	78-48-8	0.9	0.9	0.45	0.9	0.45	0.9	7	7
tributyl phosphate	126-73-8	300	300	150	300	150	300	2 500	2 500
tributyltin	36643-28-4	9	9	4.5	9	4.5	9	70	70
trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	900 000	900 000	450 000	900 000	450 000	900 000	> 1 000 mg/g	> 1 000 mg/g
trichloroacetic acid	76-03-9	200	200	100	200	100	200	450	450
trichloroaniline, 2,4,6-	634-93-5	0.9	0.9	0.45	0.9	0.45	0.9	7	7
trichlorobenzene, 1,2,3-	87-61-6	100	100	60	100	60	100	400	10 000
trichlorobenzene, 1,2,4-	120-82-1	850	850	400	850	400	850	2 500	70 000
trichlorobenzene, 1,3,5-	108-70-3	650	650	350	650	350	650	2 000	55 000
trichloroethane, 1,1,1-	71-55-6	150 000	150 000	85 000	150 000	85 000	150 000	500 000	> 1 000 mg/g

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WLN)	Wildlands Reverted (WLR)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
trichloroethane, 1,1,2-	79-00-5	350	350	150	350	150	350	1 000	30 000
trichlorofluoromethane	75-69-4	9 000	9 000	4 500	9 000	4 500	9 000	70 000	70 000
trichlorophenol, 2,3,4-	15950-66-0	85	85	40	85	40	85	250	7 000
trichlorophenol, 2,3,5-	933-78-8	85	85	40	85	40	85	250	7 000
trichlorophenol, 2,3,6-	933-75-5	85	85	40	85	40	85	250	7 000
trichlorophenol, 2,4,5-	95-95-4	8 500	8 500	4 000	8 500	4 000	8 500	25 000	700 000
trichlorophenol, 2,4,6-	88-06-2	85	85	40	85	40	85	250	7 000
trichlorophenol, 3,4,5-	609-19-8	85	85	40	85	40	85	250	7 000
trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	300	300	150	300	150	300	2 500	2 500
trichloropropane, 1,1,2-	598-77-6	150	150	80	150	80	150	1 000	1 000
trichloropropane, 1,2,3-	96-18-4	0 1	0 1	0 05	0 1	0 05	0 1	1	1
trichloropropene, 1,2,3-	96-19-5	90	90	45	90	45	90	700	700
trimesyl phosphate [TCP]	1330-78-5	650	650	300	650	300	650	4 500	4 500
tridiphane	58138-08-2	90	90	45	90	45	90	700	700
triethylene glycol	112-27-6	65 000	65 000	30 000	65 000	30 000	65 000	450 000	450 000
trifluralin	1582-09-8	250	250	100	250	100	250	2 000	2 000
trimethyl phosphate	512-56-1	300	300	150	300	150	300	1 500	1 500
trimethylbenzene, 1,3,5-	108-67-8	300	300	150	300	150	300	2 500	2 500
trinitrobenzene, 1,3,5-	99-35-4	900	900	450	900	450	900	7 000	7 000
trinitrotoluene, 2,4,6-	118-96-7	15	15	8	15	8	15	100	100
tris(1,3-dichloro-2-propyl) phosphate [TDCPP]	13674-87-8	650	650	300	650	300	650	4 500	4 500
tris(1-chloro-2-propyl)phosphate [TCPP]	13674-84-5	300	300	150	300	150	300	2 500	2 500
tris(2,3-dibromopropyl) phosphate	126-72-7	6	6	3	6	3	6	15	15

SCHEDULE 3.1 – PART 2
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT HUMAN HEALTH¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wildlands Natural (WL _N)	Wildlands Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
tris(2-chloroethyl)phosphate [TCEP]	115-96-8	200	200	100	200	100	200	1 500	1 500
tris(2-ethylhexyl)phosphate	78-42-2	3 000	3 000	1 500	3 000	1 500	3 000	10 000	10 000
tungsten	7440-33-7	25	25	15	25	15	25	200	200
vermolate	1929-77-7	30	30	15	30	15	30	250	250
vinclazolin	50471-44-8	800	800	400	800	400	800	6 000	6 000
vinyl acetate	108-05-4	30 000	30 000	15 000	30 000	15 000	30 000	250 000	250 000
vinyl chloride	75-01-4	2	2	0.95	2	0.95	2	45	45
VPHs ⁷	NA	200	200	200	200	200	200	200	200
warfarin	81-81-2	9	9	4.5	9	4.5	9	70	70
zinc	12122-67-7	1 500	1 500	800	1 500	800	1 500	10 000	10 000

Notes

- All values in µg/g unless otherwise stated
- HEPHs – Heavy Extractable Petroleum Hydrocarbons in soil is the sum of extractable petroleum hydrocarbons with a carbon range from 19 to 32 obtained by the approved methods minus the sum of benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and pyrene, where approved methods are specified by a director's protocol
- NA – Not Applicable No CAS number exists for the substance
- LEPHs – Light Extractable Petroleum Hydrocarbons in soil is the sum of extractable petroleum hydrocarbons with a carbon range from 10 to 19 obtained by the approved methods minus the sum of naphthalene and phenanthrene, where approved methods are specified by a director's protocol
- The presence of nonaqueous phase liquids as determined in accordance with a director's protocol
- The presence of odorous substances as determined in accordance with a director's protocol
- VPHs – Volatile Petroleum Hydrocarbons in soil includes the sum of volatile hydrocarbons with a carbon range from 6 to 10 obtained by approved methods minus the sum of benzene, ethylbenzene, styrene, toluene and xylenes, where approved methods are specified by a director's protocol

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	W d and s Natura (WL _N)	W d and s Reverted (WL _R)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RL _{LD})	Res dent a H gh Dens ty (RL _{HD})	Commerc a (CL)	Industr a (IL)
acenaphthene	83-32-9	NS	NS	NS	NS	NS	NS	NS	NS
acephate	30560-19-1	NS	NS	NS	NS	NS	NS	NS	NS
acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	94-74-6	NS	NS	NS	NS	NS	NS	NS	NS
acetochlor	34256-82-1	NS	NS	NS	NS	NS	NS	NS	NS
acetone	67-64-1	NS	NS	NS	NS	NS	NS	NS	NS
acetophenone	98-86-2	NS	NS	NS	NS	NS	NS	NS	NS
acrolein	107-02-8	NS	NS	NS	NS	NS	NS	NS	NS
acrylamide	79-06-1	NS	NS	NS	NS	NS	NS	NS	NS
acrylic acid	79-10-7	NS	NS	NS	NS	NS	NS	NS	NS
acrylonitrile	107-13-1	NS	NS	NS	NS	NS	NS	NS	NS
adipic acid	124-04-9	NS	NS	NS	NS	NS	NS	NS	NS
alachlor	15972-60-8	NS	NS	NS	NS	NS	NS	NS	NS
aldicarb	116-06-3	NS	NS	NS	NS	NS	NS	NS	NS
aldicarb sulfone	1646-88-4	NS	NS	NS	NS	NS	NS	NS	NS
aldrin	309-00-2	NS	NS	NS	NS	NS	NS	NS	NS
allyl alcohol	107-18-6	NS	NS	NS	NS	NS	NS	NS	NS
allyl chloride	107-05-1	NS	NS	NS	NS	NS	NS	NS	NS
aluminum	7429-90-5	NS	NS	NS	NS	NS	NS	NS	NS
ametryn	834-12-8	NS	NS	NS	NS	NS	NS	NS	NS
aminobiphenyl, 4-	92-67-1	NS	NS	NS	NS	NS	NS	NS	NS
aminophenol, 3-	591-27-5	NS	NS	NS	NS	NS	NS	NS	NS
aminophenol, 4-	123-30-8	NS	NS	NS	NS	NS	NS	NS	NS
amitraz	33089-61-1	NS	NS	NS	NS	NS	NS	NS	NS
aniline	62-53-3	NS	NS	NS	NS	NS	NS	NS	NS
anthraquinone, 9,10-	84-65-1	NS	NS	NS	NS	NS	NS	NS	NS
antimony	7440-36-0	15	20	20	20	20	40	40	40
aramite	140-57-8	NS	NS	NS	NS	NS	NS	NS	NS
asbestos	1332-21-4	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	W d and s Natura (WL _N)	W d and s Reverted (WL _R)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RL _{LD})	Res dent a H gh Dens ty (RL _{HD})	Commerc a (CL)	Industr a (IL)
asulam	3337-71-1	NS	NS	NS	NS	NS	NS	NS	NS
atrazine	1912-24-9	NS	NS	NS	NS	NS	NS	NS	NS
auramine	492-80-8	NS	NS	NS	NS	NS	NS	NS	NS
avermectin B1 (a + b)	71751-41-2	NS	NS	NS	NS	NS	NS	NS	NS
azinphos-methyl	86-50-0	NS	NS	NS	NS	NS	NS	NS	NS
azobenzene	103-33-3	NS	NS	NS	NS	NS	NS	NS	NS
azodicarbonamide	123-77-3	NS	NS	NS	NS	NS	NS	NS	NS
benfluralin	1861-40-1	NS	NS	NS	NS	NS	NS	NS	NS
benomyl	17804-35-2	NS	NS	NS	NS	NS	NS	NS	NS
bensulfuron-methyl	83055-99-6	NS	NS	NS	NS	NS	NS	NS	NS
bentazon	25057-89-0	NS	NS	NS	NS	NS	NS	NS	NS
benz(a)anthracene	56-55-3	0.65	1	0.1	1	1	10	10	10
benzidine	92-87-5	NS	NS	NS	NS	NS	NS	NS	NS
benzo(b+j)fluoranthenes	205-99-2 & 205-82-3	0.65	1	0.1	1	1	10	10	10
benzo(k)fluoranthene	207-08-9	0.65	1	0.1	1	1	10	10	10
benzoic acid	65-85-0	NS	NS	NS	NS	NS	NS	NS	NS
benzotrichloride	98-07-7	NS	NS	NS	NS	NS	NS	NS	NS
benzyl alcohol	100-51-6	NS	NS	NS	NS	NS	NS	NS	NS
benzyl chloride	100-44-7	NS	NS	NS	NS	NS	NS	NS	NS
bifenox	42576-02-3	NS	NS	NS	NS	NS	NS	NS	NS
bifenthrin	82657-04-3	NS	NS	NS	NS	NS	NS	NS	NS
biphenyl, 1,1'-	92-52-4	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloro-1-methylethyl) ether	108-60-1	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethyl) ether	111-44-4	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-ethylhexyl) adipate	103-23-1	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-ethylhexyl) phthalate [DEHP]	117-81-7			30					

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds Natura (WLN)	Winds Reverted (WLR)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
bisphenol A	80-05-7	NS	NS	NS	NS	NS	NS	NS	NS
boron	7440-42-8	NS	NS	NS	NS	NS	NS	NS	NS
boron (hot water soluble)	NA			2					
bromate	15541-45-4	NS	NS	NS	NS	NS	NS	NS	NS
bromo-2-chloroethane, 1-	107-04-0	NS	NS	NS	NS	NS	NS	NS	NS
bromobenzene	108-86-1	NS	NS	NS	NS	NS	NS	NS	NS
bromodichloromethane	75-27-4	NS	NS	NS	NS	NS	NS	NS	NS
bromoform	75-25-2	NS	NS	NS	NS	NS	NS	NS	NS
bromomethane	74-83-9	NS	NS	NS	NS	NS	NS	NS	NS
bromophos	2104-96-3	NS	NS	NS	NS	NS	NS	NS	NS
bromoxynil	1689-84-5	NS	NS	NS	NS	NS	NS	NS	NS
butadiene, 1,3-	106-99-0	NS	NS	NS	NS	NS	NS	NS	NS
butanoic acid, 4-(4-chloro-2-methylphenoxy)- [MCPB]	94-81-5	NS	NS	NS	NS	NS	NS	NS	NS
butanol, 2-	78-92-2	NS	NS	NS	NS	NS	NS	NS	NS
butanol, n-	71-36-3	NS	NS	NS	NS	NS	NS	NS	NS
butoxy ethanol, 2-	111-76-2	NS	NS	NS	NS	NS	NS	NS	NS
butyl benzyl phthalate	85-68-7	NS	NS	NS	NS	NS	NS	NS	NS
butyl phthalyl butyl glycolate	85-70-1	NS	NS	NS	NS	NS	NS	NS	NS
butylate	2008-41-5	NS	NS	NS	NS	NS	NS	NS	NS
butylated hydroxytoluene [BHT]	128-37-0	NS	NS	NS	NS	NS	NS	NS	NS
butylbenzene, n-	104-51-8	NS	NS	NS	NS	NS	NS	NS	NS
butylbenzene, sec-	135-98-8	NS	NS	NS	NS	NS	NS	NS	NS
butylbenzene, tert-	98-06-6	NS	NS	NS	NS	NS	NS	NS	NS
calcodylic acid	75-60-5	NS	NS	NS	NS	NS	NS	NS	NS
caprolactam	105-60-2	NS	NS	NS	NS	NS	NS	NS	NS
captafol	2425-06-1	NS	NS	NS	NS	NS	NS	NS	NS
captan	133-06-2	NS	NS	NS	NS	NS	NS	NS	NS
carbaryl	63-25-2	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds Natura (WL _N)	Winds Reverted (WL _R)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
carbofuran	1563-66-2	NS	NS	NS	NS	NS	NS	NS	NS
carbon disulfide	75-15-0	NS	NS	NS	NS	NS	NS	NS	NS
carbon tetrachloride	56-23-5	3	5	0.1	5	5	50	50	50
carbosulfan	55285-14-8	NS	NS	NS	NS	NS	NS	NS	NS
carboxin	5234-68-4	NS	NS	NS	NS	NS	NS	NS	NS
chloramben	133-90-4	NS	NS	NS	NS	NS	NS	NS	NS
chloranil	118-75-2	NS	NS	NS	NS	NS	NS	NS	NS
chlordane (cis + trans) & 5103-74-2	5103-74-2	NS	NS	NS	NS	NS	NS	NS	NS
chlordecone	143-50-0	NS	NS	NS	NS	NS	NS	NS	NS
chlorfenvinphos	470-90-6	NS	NS	NS	NS	NS	NS	NS	NS
chlorimuron, ethyl	90982-32-4	NS	NS	NS	NS	NS	NS	NS	NS
chloro-2-methylamine, 4-	95-69-2	NS	NS	NS	NS	NS	NS	NS	NS
chloroacetaldehyde, 2-	107-20-0	NS	NS	NS	NS	NS	NS	NS	NS
chloroaniline, p-	106-47-8	NS	NS	NS	NS	NS	NS	NS	NS
chlorobenzene	108-90-7	0.65	1	0.1	1	1	10	10	10
chlorobenzilate	510-15-6	NS	NS	NS	NS	NS	NS	NS	NS
chlorobenzoic acid, 4-	74-11-3	NS	NS	NS	NS	NS	NS	NS	NS
chlorobenzotrichloride, 4-	5216-25-1	NS	NS	NS	NS	NS	NS	NS	NS
chlorobenzotrifluoride, 4-	98-56-6	NS	NS	NS	NS	NS	NS	NS	NS
chlorobutane, 1-	109-69-3	NS	NS	NS	NS	NS	NS	NS	NS
chloroethanol, 2-	107-07-3	NS	NS	NS	NS	NS	NS	NS	NS
chloroform	67-66-3	3	5	0.1	5	5	50	50	50
chloronaphthalene, 2-	91-58-7	NS	NS	NS	NS	NS	NS	NS	NS
chloronitrobenzene, 2-	88-73-3	NS	NS	NS	NS	NS	NS	NS	NS
chloronitrobenzene, 4-	100-00-5	NS	NS	NS	NS	NS	NS	NS	NS
chlorophenol, 2-	95-57-8	0.3	0.5	0.05	0.5	0.5	5	5	5
chlorophenol, 3-	108-43-0	0.3	0.5	0.05	0.5	0.5	5	5	5
chlorophenol, 4-	106-48-9	0.3	0.5	0.05	0.5	0.5	5	5	5

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds Natural (WL _N)	Winds Reverted (WL _R)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
chloroprene	126-99-8	NS	NS	NS	NS	NS	NS	NS	NS
chlorothalonil	1897-45-6	NS	NS	NS	NS	NS	NS	NS	NS
chlorotoluene, 2-	95-49-8	NS	NS	NS	NS	NS	NS	NS	NS
chlorotoluene, 4-	106-43-4	NS	NS	NS	NS	NS	NS	NS	NS
chlorpropham	101-21-3	NS	NS	NS	NS	NS	NS	NS	NS
chlorpyrifos	2921-88-2	NS	NS	NS	NS	NS	NS	NS	NS
chlorpyrifos-methyl	5598-13-0	NS	NS	NS	NS	NS	NS	NS	NS
chlorsulfuron	64902-72-3	NS	NS	NS	NS	NS	NS	NS	NS
chlorthal-dimethyl	1861-32-1	NS	NS	NS	NS	NS	NS	NS	NS
chlorthiophos	60238-56-4	NS	NS	NS	NS	NS	NS	NS	NS
chrysene	218-01-9	NS	NS	NS	NS	NS	NS	NS	NS
clofenazine	74115-24-5	NS	NS	NS	NS	NS	NS	NS	NS
crotonaldehyde, trans-	123-73-9	NS	NS	NS	NS	NS	NS	NS	NS
cyazazine	21725-46-2	NS	NS	NS	NS	NS	NS	NS	NS
cyanozen	460-19-5	NS	NS	NS	NS	NS	NS	NS	NS
cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	NS	NS	NS	NS	NS	NS	NS	NS
cyclohexanone	108-94-1	NS	NS	NS	NS	NS	NS	NS	NS
cyclohexene	110-83-8	NS	NS	NS	NS	NS	NS	NS	NS
cyclohexylamine	108-91-8	NS	NS	NS	NS	NS	NS	NS	NS
cyfluthrin	68359-37-5	NS	NS	NS	NS	NS	NS	NS	NS
cyhalothrin	68085-85-8	NS	NS	NS	NS	NS	NS	NS	NS
cypermethrin	52315-07-8	NS	NS	NS	NS	NS	NS	NS	NS
cyromazine	66215-27-8	NS	NS	NS	NS	NS	NS	NS	NS
dalapon	75-99-0	NS	NS	NS	NS	NS	NS	NS	NS
daminozide	1596-84-5	NS	NS	NS	NS	NS	NS	NS	NS
demeton	8065-48-3	NS	NS	NS	NS	NS	NS	NS	NS
diallate	2303-16-4	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	W d and s Natura (WLN)	W d and s Reverted (WLR)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RLD)	Res dent a H gh Dens ty (RLHD)	Commerc a (CL)	Industr a (IL)
diaminotoluene, 2,5-	95-70-5	NS	NS	NS	NS	NS	NS	NS	NS
diazinon	333-41-5	NS	NS	NS	NS	NS	NS	NS	NS
dibenz(a,h)anthracene	53-70-3	0.65	1	0.1	1	1	10	10	10
dibenzo(a,e)pyrene	192-65-4	NS	NS	NS	NS	NS	NS	NS	NS
dibenzofuran	132-64-9	NS	NS	NS	NS	NS	NS	NS	NS
dibenzothiophene	132-65-0	NS	NS	NS	NS	NS	NS	NS	NS
dibromo-3-chloropropane, 1,2-	96-12-8	NS	NS	NS	NS	NS	NS	NS	NS
dibromobenzene, 1,3-	108-36-1	NS	NS	NS	NS	NS	NS	NS	NS
dibromobenzene, 1,4-	106-37-6	NS	NS	NS	NS	NS	NS	NS	NS
dibromochloromethane [DBCM]	124-48-1	NS	NS	NS	NS	NS	NS	NS	NS
dibromoethane, 1,2-	106-93-4	NS	NS	NS	NS	NS	NS	NS	NS
dibutyl phthalate [DBP]	84-74-2			30					
dibutyltin	14488-53-0	NS	NS	NS	NS	NS	NS	NS	NS
dicamba	1918-00-9	NS	NS	NS	NS	NS	NS	NS	NS
dichloroacetic acid	79-43-6	NS	NS	NS	NS	NS	NS	NS	NS
dichlorobenzene, 1,2-	95-50-1	0.65	1	0.1	1	1	10	10	10
dichlorobenzene, 1,3-	541-73-1	0.65	1	0.1	1	1	10	10	10
dichlorobenzene, 1,4-	106-46-7	0.65	1	0.1	1	1	10	10	10
dichlorobenzidine, 3,3'-	91-94-1	NS	NS	NS	NS	NS	NS	NS	NS
dichlorodifluoromethane	75-71-8	NS	NS	NS	NS	NS	NS	NS	NS
dichlorodiphenyl sulfone, 4,4'-	80-07-9	NS	NS	NS	NS	NS	NS	NS	NS
dichloroethane, 1,1-	75-34-3	3	5	0.1	5	5	50	50	50
dichloroethane, 1,2-	107-06-2	3	5	0.1	5	5	50	50	50
dichloroethylene, 1,1-	75-35-4	3	5	0.1	5	5	50	50	50
dichloroethylene, 1,2-cis-	156-59-2	3	5	0.1	5	5	50	50	50
dichloroethylene, 1,2-trans-	156-60-5	3	5	0.1	5	5	50	50	50
dichloromethane	75-09-2	3	5	0.1	5	5	50	50	50
dichlorophenol, 2,3-	576-24-9	0.3	0.5	0.05	0.5	0.5	5	5	5

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds Natura (WLN)	Winds Reverted (WLR)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RLD)	Residential High Density (RLHD)	Commercial (CL)	Industrial (IL)
dichlorophenol, 2,4-	120-83-2	0.3	0.5	0.05	0.5	0.5	5	5	5
dichlorophenol, 2,5-	583-78-8	0.3	0.5	0.05	0.5	0.5	5	5	5
dichlorophenol, 2,6-	87-65-0	0.3	0.5	0.05	0.5	0.5	5	5	5
dichlorophenol, 3,4-	95-77-2	0.3	0.5	0.05	0.5	0.5	5	5	5
dichlorophenol, 3,5-	591-35-5	0.3	0.5	0.05	0.5	0.5	5	5	5
dichlorophenoxy acetic acid, 2,4-[2,4-D]	94-75-7	NS	NS	NS	NS	NS	NS	NS	NS
dichlorophenoxy butyric acid, 2,4-[2,4-DB]	94-82-6	NS	NS	NS	NS	NS	NS	NS	NS
dichloropropane, 1,2-	78-87-5	3	5	0.1	5	5	50	50	50
dichloropropane, 1,3-	142-28-9	NS	NS	NS	NS	NS	NS	NS	NS
dichloropropanol, 2,3-	616-23-9	NS	NS	NS	NS	NS	NS	NS	NS
dichloropropene, 1,3-(cis + trans)	542-75-6	3	5	0.1	5	5	50	50	50
dichlorvos	62-73-7	NS	NS	NS	NS	NS	NS	NS	NS
dicrotophos	141-66-2	NS	NS	NS	NS	NS	NS	NS	NS
dicyclopentadiene	77-73-6	NS	NS	NS	NS	NS	NS	NS	NS
dieldrin	60-57-1	NS	NS	NS	NS	NS	NS	NS	NS
diethanolamine	111-42-2	NS	NS	NS	NS	NS	NS	NS	NS
diethyl ether	60-29-7	NS	NS	NS	NS	NS	NS	NS	NS
diethyl phthalate	84-66-2	NS	NS	NS	NS	NS	NS	NS	NS
diethylthiocarbamate	392-74-5	NS	NS	NS	NS	NS	NS	NS	NS
diethylene glycol monobutyl ether	112-34-5	NS	NS	NS	NS	NS	NS	NS	NS
diethylene glycol monoethyl ether	111-90-0	NS	NS	NS	NS	NS	NS	NS	NS
diethylformamide	617-84-5	NS	NS	NS	NS	NS	NS	NS	NS
diflubenzuron	35367-38-5	NS	NS	NS	NS	NS	NS	NS	NS
disobutylene	25167-70-8	NS	NS	NS	NS	NS	NS	NS	NS
dimethipin	55290-64-7	NS	NS	NS	NS	NS	NS	NS	NS
dimethoate	60-51-5	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds Natural (WL _N)	Winds Reverted (WL _R)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
dimethoxybenzidine, 3,3'-	119-90-4	NS	NS	NS	NS	NS	NS	NS	NS
dimethyl methylphosphonate	756-79-6	NS	NS	NS	NS	NS	NS	NS	NS
dimethylamino azobenzene, 4-[DAB]	60-111-7	NS	NS	NS	NS	NS	NS	NS	NS
dimethylamine, 2,4-	95-68-1	NS	NS	NS	NS	NS	NS	NS	NS
dimethylamine, N,N- [DMA]	121-69-7	NS	NS	NS	NS	NS	NS	NS	NS
dimethylbenz(a)anthracene, 7,12-	57-97-6	NS	NS	NS	NS	NS	NS	NS	NS
dimethylbenzidine, 3,3'-	119-93-7	NS	NS	NS	NS	NS	NS	NS	NS
dimethylformamide	68-12-2	NS	NS	NS	NS	NS	NS	NS	NS
dimethylhydrazine, 1,1-	57-14-7	NS	NS	NS	NS	NS	NS	NS	NS
dimethylphenol, 2,4-	105-67-9	0.65	1	0.1	1	1	10	10	10
dimethylphenol, 2,6-	576-26-1	NS	NS	NS	NS	NS	NS	NS	NS
dimethylphenol, 3,4-	95-65-8	NS	NS	NS	NS	NS	NS	NS	NS
dimethylterephthalate	120-61-6	NS	NS	NS	NS	NS	NS	NS	NS
dinitrobenzene, 1,2-	528-29-0	NS	NS	NS	NS	NS	NS	NS	NS
dinitrobenzene, 1,3-	99-65-0	NS	NS	NS	NS	NS	NS	NS	NS
dinitrobenzene, 1,4-	100-25-4	NS	NS	NS	NS	NS	NS	NS	NS
dinitro-o-cyclohexyl phenol, 4,6-	131-89-5	NS	NS	NS	NS	NS	NS	NS	NS
dinitrophenol, 2,4-	51-28-5	0.65	1	0.1	1	1	10	10	10
dinitrotoluene, 2,4-	121-14-2	NS	NS	NS	NS	NS	NS	NS	NS
dinitrotoluene, 2,6-	606-20-2	NS	NS	NS	NS	NS	NS	NS	NS
dinitrotoluene, 2-amino-4,6-	35572-78-2	NS	NS	NS	NS	NS	NS	NS	NS
dinitrotoluene, 4-amino-2,6-	19406-51-0	NS	NS	NS	NS	NS	NS	NS	NS
dinoseb	88-85-7	NS	NS	NS	NS	NS	NS	NS	NS
dioxane, 1,4-	123-91-1	NS	NS	NS	NS	NS	NS	NS	NS
diphenamid	957-51-7	NS	NS	NS	NS	NS	NS	NS	NS
diphenyl sulfone	127-63-9	NS	NS	NS	NS	NS	NS	NS	NS
diphenyl-1,4-benzenediamine, N,N'-	74-31-7	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds Natura (WL _N)	Winds Reverted (WL _R)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
diphenylamine	122-39-4	NS	NS	NS	NS	NS	NS	NS	NS
diquat (as dibromide)	85-00-7	NS	NS	NS	NS	NS	NS	NS	NS
Direct Black 38	1937-37-7	NS	NS	NS	NS	NS	NS	NS	NS
Direct Blue 6	2602-46-2	NS	NS	NS	NS	NS	NS	NS	NS
Direct Brown 95	16071-86-6	NS	NS	NS	NS	NS	NS	NS	NS
disulfoton	298-04-4	NS	NS	NS	NS	NS	NS	NS	NS
diuron	330-54-1	NS	NS	NS	NS	NS	NS	NS	NS
dodine	2439-10-3	NS	NS	NS	NS	NS	NS	NS	NS
endosulfan I + II	115-29-7	NS	NS	NS	NS	NS	NS	NS	NS
endothall	145-73-3	NS	NS	NS	NS	NS	NS	NS	NS
endrin	72-20-8	NS	NS	NS	NS	NS	NS	NS	NS
EPTC	759-94-4	NS	NS	NS	NS	NS	NS	NS	NS
ethanol, 2-(2-methoxyethoxy)-	111-77-3	NS	NS	NS	NS	NS	NS	NS	NS
ethephon	16672-87-0	NS	NS	NS	NS	NS	NS	NS	NS
ethion	563-12-2	NS	NS	NS	NS	NS	NS	NS	NS
ethoxyethanol, 2-	110-80-5	NS	NS	NS	NS	NS	NS	NS	NS
ethoxyethanol acetate, 2-	111-15-9	NS	NS	NS	NS	NS	NS	NS	NS
ethyl acetate	141-78-6	NS	NS	NS	NS	NS	NS	NS	NS
ethyl acrylate	140-88-5	NS	NS	NS	NS	NS	NS	NS	NS
ethylene cyanohydrin	109-78-4	NS	NS	NS	NS	NS	NS	NS	NS
ethylene thiourea	96-45-7	NS	NS	NS	NS	NS	NS	NS	NS
ethylenediamine	107-15-3	NS	NS	NS	NS	NS	NS	NS	NS
ethylencimine	151-56-4	NS	NS	NS	NS	NS	NS	NS	NS
ethyl-p-nitrophenyl benzenethionophosphonate [EPN]	2104-64-5	NS	NS	NS	NS	NS	NS	NS	NS
fenamiphos	22224-92-6	NS	NS	NS	NS	NS	NS	NS	NS
fenpropathrin	39515-41-8	NS	NS	NS	NS	NS	NS	NS	NS
fenvalerate	51630-58-1	NS	NS	NS	NS	NS	NS	NS	NS
fluometuron	2164-17-2	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	W d and s Natura (WL _N)	W d and s Reverted (WL _R)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RL _{LD})	Res dent a H gh Dens ty (RL _{HD})	Commerc a (CL)	Industr a (IL)
fluorene	86-73-7	NS	NS	NS	NS	NS	NS	NS	NS
fluoride	16984-48-8	250	400	200	400	400	2 000	2 000	2 000
fluridone	59756-60-4	NS	NS	NS	NS	NS	NS	NS	NS
flurprimidol	56425-91-3	NS	NS	NS	NS	NS	NS	NS	NS
flusilazole	85509-19-9	NS	NS	NS	NS	NS	NS	NS	NS
flutolamil	66332-96-5	NS	NS	NS	NS	NS	NS	NS	NS
fluvinalinate	69409-94-5	NS	NS	NS	NS	NS	NS	NS	NS
folpet	133-07-3	NS	NS	NS	NS	NS	NS	NS	NS
fomesafen	72178-02-0	NS	NS	NS	NS	NS	NS	NS	NS
fonofos	944-22-9	NS	NS	NS	NS	NS	NS	NS	NS
formaldehyde	50-00-0	NS	NS	NS	NS	NS	NS	NS	NS
formic acid	64-18-6	NS	NS	NS	NS	NS	NS	NS	NS
fosetyl	15845-66-6	NS	NS	NS	NS	NS	NS	NS	NS
furan	110-00-9	NS	NS	NS	NS	NS	NS	NS	NS
furazolidone	67-45-8	NS	NS	NS	NS	NS	NS	NS	NS
furfural	98-01-1	NS	NS	NS	NS	NS	NS	NS	NS
furmecyclox	60568-05-0	NS	NS	NS	NS	NS	NS	NS	NS
furothiazole	531-82-8	NS	NS	NS	NS	NS	NS	NS	NS
glufosinate	53369-07-6	NS	NS	NS	NS	NS	NS	NS	NS
glycidaldehyde	765-34-4	NS	NS	NS	NS	NS	NS	NS	NS
glyphosate	1071-83-6	NS	NS	NS	NS	NS	NS	NS	NS
guanidine	113-00-8	NS	NS	NS	NS	NS	NS	NS	NS
haloxyfop, methyl	69806-40-2	NS	NS	NS	NS	NS	NS	NS	NS
HEPHs ⁴	NA	650	1 000	1 000	1 000	1 000	5 000	5 000	5 000
heptachlor	76-44-8	NS	NS	NS	NS	NS	NS	NS	NS
heptachlor epoxide	1024-57-3	NS	NS	NS	NS	NS	NS	NS	NS
hexabromobenzene	87-82-1	NS	NS	NS	NS	NS	NS	NS	NS
hexabromobiphenyl, 2,2',4,4',5,5'	59536-65-1	NS	NS	NS	NS	NS	NS	NS	NS

SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	W d and s Natura (WL _N)	W d and s Reverted (WL _R)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RL _{LD})	Res dent a H gh Dens ty (RL _{HD})	Commerc a (CL)	Industr a (IL)
hexachlorobenzene	118-74-1	1.5	2	0.05	2	2	10	10	10
hexachlorobutadiene	87-68-3	NS	NS	NS	NS	NS	NS	NS	NS
hexachlorocyclohexane, alpha-	319-84-6	NS	NS	NS	NS	NS	NS	NS	NS
hexachlorocyclohexane, beta-	319-85-7	NS	NS	NS	NS	NS	NS	NS	NS
hexachlorocyclohexane, gamma-	58-89-9			0.01					
hexachlorocyclopentadiene	77-47-4	NS	NS	NS	NS	NS	NS	NS	NS
hexachloroethane	67-72-1	NS	NS	NS	NS	NS	NS	NS	NS
hexachlorophene	70-30-4	NS	NS	NS	NS	NS	NS	NS	NS
hexahydro-1,3,5-trinitro-1,3,5-triazine [RDX]	121-82-4	NS	NS	NS	NS	NS	NS	NS	NS
hexamethylphosphoramide	680-31-9	NS	NS	NS	NS	NS	NS	NS	NS
hexanone, 2-	591-78-6	NS	NS	NS	NS	NS	NS	NS	NS
hexazinone	51235-04-2	NS	NS	NS	NS	NS	NS	NS	NS
hexythiazox	78587-05-0	NS	NS	NS	NS	NS	NS	NS	NS
hydramethylnon	67485-29-4	NS	NS	NS	NS	NS	NS	NS	NS
hydrazine	302-01-2	NS	NS	NS	NS	NS	NS	NS	NS
hydroquinone	123-31-9	NS	NS	NS	NS	NS	NS	NS	NS
imazalil	35554-44-0	NS	NS	NS	NS	NS	NS	NS	NS
imazaquin	81335-37-7	NS	NS	NS	NS	NS	NS	NS	NS
imazethapyr	81335-77-5	NS	NS	NS	NS	NS	NS	NS	NS
indeno(1,2,3-cd)pyrene	193-39-5	0.65	1	0.1	1	1	10	10	10
iprodione	36734-19-7	NS	NS	NS	NS	NS	NS	NS	NS
isobutanol	78-83-1	NS	NS	NS	NS	NS	NS	NS	NS
isophorone	78-59-1	NS	NS	NS	NS	NS	NS	NS	NS
isopropalin	33820-53-0	NS	NS	NS	NS	NS	NS	NS	NS
isopropanol	67-63-0	NS	NS	NS	NS	NS	NS	NS	NS
isopropylbenzene	98-82-8	NS	NS	NS	NS	NS	NS	NS	NS
isoxaben	82558-50-7	NS	NS	NS	NS	NS	NS	NS	NS
lactofen	77501-63-4	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds Natura (WL _N)	Winds Reverted (WL _R)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
LEPHs ⁵	NA	650	1 000	1 000	1 000	1 000	2 000	2 000	2 000
linuron	330-55-2	NS	NS	NS	NS	NS	NS	NS	NS
lithium	7439-93-2	NS	NS	NS	NS	NS	NS	NS	NS
malathion	121-75-5	NS	NS	NS	NS	NS	NS	NS	NS
malonitrile	109-77-3	NS	NS	NS	NS	NS	NS	NS	NS
mancozeb	8018-01-7	NS	NS	NS	NS	NS	NS	NS	NS
maneb	12427-38-2	NS	NS	NS	NS	NS	NS	NS	NS
mecoprop [MCPP]	93-65-2	NS	NS	NS	NS	NS	NS	NS	NS
merphos	150-50-5	NS	NS	NS	NS	NS	NS	NS	NS
metaxyl	57837-19-1	NS	NS	NS	NS	NS	NS	NS	NS
methacrylonitrile	126-98-7	NS	NS	NS	NS	NS	NS	NS	NS
methamidophos	10265-92-6	NS	NS	NS	NS	NS	NS	NS	NS
methidathion	950-37-8	NS	NS	NS	NS	NS	NS	NS	NS
methomyl	16752-77-5	NS	NS	NS	NS	NS	NS	NS	NS
methoxy-5-nitroaniline, 2-	99-59-2	NS	NS	NS	NS	NS	NS	NS	NS
methoxychlor	72-43-5	NS	NS	NS	NS	NS	NS	NS	NS
methoxyethanol, 2-	109-86-4	NS	NS	NS	NS	NS	NS	NS	NS
methoxyethanol acetate, 2-	110-49-6	NS	NS	NS	NS	NS	NS	NS	NS
methyl acetate	79-20-9	NS	NS	NS	NS	NS	NS	NS	NS
methyl ethyl ketone [MEK]	78-93-3	NS	NS	NS	NS	NS	NS	NS	NS
methyl hydrazine	60-34-4	NS	NS	NS	NS	NS	NS	NS	NS
methyl mercury	22967-92-6	NS	NS	NS	NS	NS	NS	NS	NS
methyl methacrylate	80-62-6	NS	NS	NS	NS	NS	NS	NS	NS
methyl tert-butyl ether [MTBE]	1634-04-4	NS	NS	NS	NS	NS	NS	NS	NS
methyl-5-nitroaniline, 2-	99-55-8	NS	NS	NS	NS	NS	NS	NS	NS
methylaniline, 2-	95-53-4	NS	NS	NS	NS	NS	NS	NS	NS
methylaniline, 4-	106-49-0	NS	NS	NS	NS	NS	NS	NS	NS
methylaniline, N-	100-61-8	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	W d and s Natura (WL _N)	W d and s Reverted (WL _R)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RL _{LD})	Res dent a H igh Dens ty (RL _{HD})	Commerc a (CL)	Industr a (IL)
methylcholanthrene, 3-	56-49-5	NS	NS	NS	NS	NS	NS	NS	NS
methylene-bis(2-chloroaniline), 4,4'-	101-14-4	NS	NS	NS	NS	NS	NS	NS	NS
methylene-bis(N, N-dimethyl)aniline, 4,4'-	101-61-1	NS	NS	NS	NS	NS	NS	NS	NS
methylenebisbenzenamine, 4,4'-	101-77-9	NS	NS	NS	NS	NS	NS	NS	NS
methylnaphthalene, 1-	90-12-0	NS	NS	NS	NS	NS	NS	NS	NS
methylnaphthalene, 2-	91-57-6	NS	NS	NS	NS	NS	NS	NS	NS
methylnaphthalene, 2-	95-48-7	0.65	1	0.1	1	1	10	10	10
methylphenol, 3-	108-39-4	0.65	1	0.1	1	1	10	10	10
methylphenol, 4-	106-44-5	0.65	1	0.1	1	1	10	10	10
methylphenol, 4-chloro-3-	59-50-7	NS	NS	NS	NS	NS	NS	NS	NS
methylstyrene, alpha-	98-83-9	NS	NS	NS	NS	NS	NS	NS	NS
metolachlor	51218-45-2	NS	NS	NS	NS	NS	NS	NS	NS
metribuzin	21087-64-9	NS	NS	NS	NS	NS	NS	NS	NS
metsulfuron-methyl	74223-64-6	NS	NS	NS	NS	NS	NS	NS	NS
mirex	2385-85-5	NS	NS	NS	NS	NS	NS	NS	NS
molinate	2212-67-1	NS	NS	NS	NS	NS	NS	NS	NS
monomethylarsonic acid	124-58-3	NS	NS	NS	NS	NS	NS	NS	NS
myclobutamil	88671-89-0	NS	NS	NS	NS	NS	NS	NS	NS
naled	300-76-5	NS	NS	NS	NS	NS	NS	NS	NS
naphthylamine, 2-	91-59-8	NS	NS	NS	NS	NS	NS	NS	NS
napropamide	15299-99-7	NS	NS	NS	NS	NS	NS	NS	NS
nitrate (as N)	14797-55-8	NS	NS	NS	NS	NS	NS	NS	NS
nitrite (as N)	14797-65-0	NS	NS	NS	NS	NS	NS	NS	NS
nitroaniline, 2-	88-74-4	NS	NS	NS	NS	NS	NS	NS	NS
nitroaniline, 4-	100-01-6	NS	NS	NS	NS	NS	NS	NS	NS
nitrobenzene	98-95-3	NS	NS	NS	NS	NS	NS	NS	NS
nitrofurazone	59-87-0	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds and Nature (WL _N)	Winds Reverted (WL _R)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
nitroglycerin	55-63-0	NS	NS	NS	NS	NS	NS	NS	NS
nitroguanidine	556-88-7	NS	NS	NS	NS	NS	NS	NS	NS
nitrophenol, 2-	88-75-5	0.65	1	0.1	1	1	10	10	10
nitrophenol, 4-	100-02-7	0.65	1	0.1	1	1	10	10	10
nitropyrene, 4-	57835-92-4	NS	NS	NS	NS	NS	NS	NS	NS
nitrosodichloroamine, N-	1116-54-7	NS	NS	NS	NS	NS	NS	NS	NS
nitrosodimethylamine, N- [NDEA]	55-18-5	NS	NS	NS	NS	NS	NS	NS	NS
nitrosodimethylamine, N- [NDMA]	62-75-9	NS	NS	NS	NS	NS	NS	NS	NS
nitroso-di-N-butylamine, N-	924-16-3	NS	NS	NS	NS	NS	NS	NS	NS
nitroso-di-N-propylamine, N-	621-64-7	NS	NS	NS	NS	NS	NS	NS	NS
nitrosodiphenylamine, N-	86-30-6	NS	NS	NS	NS	NS	NS	NS	NS
nitrosomethylethylamine, N-	10595-95-6	NS	NS	NS	NS	NS	NS	NS	NS
nitrosomorpholine, N-	59-89-2	NS	NS	NS	NS	NS	NS	NS	NS
nitrosopiperidine, N-	100-75-4	NS	NS	NS	NS	NS	NS	NS	NS
nitrosopyrrolidine, N-	930-55-2	NS	NS	NS	NS	NS	NS	NS	NS
nitrotoluene, 2-	88-72-2	NS	NS	NS	NS	NS	NS	NS	NS
nitrotoluene, 3-	99-08-1	NS	NS	NS	NS	NS	NS	NS	NS
nitrotoluene, 4-	99-99-0	NS	NS	NS	NS	NS	NS	NS	NS
nonane, n-	111-84-2	NS	NS	NS	NS	NS	NS	NS	NS
nonaqueous phase liquids ⁶	NA	not present	not present	not present	not present	not present	not present	not present	not present
norflurazon	27314-13-2	NS	NS	NS	NS	NS	NS	NS	NS
octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine [HMX]	2691-41-0	NS	NS	NS	NS	NS	NS	NS	NS
octamethylpyrophosphoramide [OMPA]	152-16-9	NS	NS	NS	NS	NS	NS	NS	NS
octyl phthalate, di-n- [DNOP]	117-84-0	NS	NS	NS	NS	NS	NS	NS	NS
odorous substances ⁷	NA	not present	not present	not present	not present	not present	not present	not present	not present
oryzalin	19044-88-3	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wild and Natural (WL _N)	Wild and Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
oxadiazon	19666-30-9	NS	NS	NS	NS	NS	NS	NS	NS
oxamyl	23135-22-0	NS	NS	NS	NS	NS	NS	NS	NS
oxyfluorfen	42874-03-3	NS	NS	NS	NS	NS	NS	NS	NS
paclobutrazol	76738-62-0	NS	NS	NS	NS	NS	NS	NS	NS
paraquat (as dichloride)	1910-42-5	NS	NS	NS	NS	NS	NS	NS	NS
parathion	56-38-2	NS	NS	NS	NS	NS	NS	NS	NS
parathion methyl	298-00-0	NS	NS	NS	NS	NS	NS	NS	NS
pebulate	1114-71-2	NS	NS	NS	NS	NS	NS	NS	NS
pendimethalin	40487-42-1	NS	NS	NS	NS	NS	NS	NS	NS
pentachlorobenzene, 1,2,3,4,5-	608-93-5	1.5	2	0.05	2	2	10	10	10
pentachloroethane	76-01-7	NS	NS	NS	NS	NS	NS	NS	NS
pentachloronitrobenzene [PCNB]	82-68-8	NS	NS	NS	NS	NS	NS	NS	NS
pentaerythritol tetranitrate [PETN]	78-11-5	NS	NS	NS	NS	NS	NS	NS	NS
perchlorate	14797-73-0	NS	NS	NS	NS	NS	NS	NS	NS
perfluorobutane sulfonate [PFBS]	375-73-5	NS	NS	NS	NS	NS	NS	NS	NS
permethrin (cis + trans)	52645-53-1	NS	NS	NS	NS	NS	NS	NS	NS
phenanthrene	85-01-8	3	5	0.1	5	5	50	50	50
phenmedipham	13684-63-4	NS	NS	NS	NS	NS	NS	NS	NS
phenol, 2-methyl-4,6-dinitro- [DNOC]	534-52-1	0.65	1	0.1	1	1	10	10	10
phenothiazine	92-84-2	NS	NS	NS	NS	NS	NS	NS	NS
phenylenediamine, m- [MPD]	108-45-2	NS	NS	NS	NS	NS	NS	NS	NS
phenylenediamine, o- [OPD]	95-54-5	NS	NS	NS	NS	NS	NS	NS	NS
phenylenediamine, p- [PPD]	106-50-3	NS	NS	NS	NS	NS	NS	NS	NS
phenylphenol, 2-	90-43-7	NS	NS	NS	NS	NS	NS	NS	NS
phorate	298-02-2	NS	NS	NS	NS	NS	NS	NS	NS
phosmet	732-11-6	NS	NS	NS	NS	NS	NS	NS	NS
phthalic acid, p-	100-21-0	NS	NS	NS	NS	NS	NS	NS	NS
picloram	1918-02-1	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	W d and s Natura (WL _N)	W d and s Reverted (WL _R)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RL _{LD})	Res dent a H gh Dens ty (RL _{HD})	Commerc a (CL)	Industr a (IL)
picramic acid	96-91-3	NS	NS	NS	NS	NS	NS	NS	NS
picric acid	88-89-1	NS	NS	NS	NS	NS	NS	NS	NS
pirimiphos- methyl	29232-93-7	NS	NS	NS	NS	NS	NS	NS	NS
prochloraz	67747-09-5	NS	NS	NS	NS	NS	NS	NS	NS
profluralin	26399-36-0	NS	NS	NS	NS	NS	NS	NS	NS
prometon	1610-18-0	NS	NS	NS	NS	NS	NS	NS	NS
prometryn	7287-19-6	NS	NS	NS	NS	NS	NS	NS	NS
propachlor	1918-16-7	NS	NS	NS	NS	NS	NS	NS	NS
propanil	709-98-8	NS	NS	NS	NS	NS	NS	NS	NS
propargite	2312-35-8	NS	NS	NS	NS	NS	NS	NS	NS
propargyl alcohol	107-19-7	NS	NS	NS	NS	NS	NS	NS	NS
propazine	139-40-2	NS	NS	NS	NS	NS	NS	NS	NS
propham	122-42-9	NS	NS	NS	NS	NS	NS	NS	NS
propiconazole	60207-90-1	NS	NS	NS	NS	NS	NS	NS	NS
propylbenzene, 1-	103-65-1	NS	NS	NS	NS	NS	NS	NS	NS
propylene glycol monomethyl ether	107-98-2	NS	NS	NS	NS	NS	NS	NS	NS
propylene oxide	75-56-9	NS	NS	NS	NS	NS	NS	NS	NS
propylamide	23950-58-5	NS	NS	NS	NS	NS	NS	NS	NS
pyrene	129-00-0	6.5	10	0.1	10	10	100	100	100
pyridine	110-86-1	NS	NS	NS	NS	NS	NS	NS	NS
quinalphos	13593-03-8	NS	NS	NS	NS	NS	NS	NS	NS
quinoline	91-22-5	NS	NS	NS	NS	NS	NS	NS	NS
quizalofop-ethyl	76578-14-8	NS	NS	NS	NS	NS	NS	NS	NS
resmethrin	10453-86-8	NS	NS	NS	NS	NS	NS	NS	NS
ronnel	299-84-3	NS	NS	NS	NS	NS	NS	NS	NS
rotenone	83-79-4	NS	NS	NS	NS	NS	NS	NS	NS
selenious acid	7783-00-8	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	W d and s Natura (WL _N)	W d and s Reverted (WL _R)	Agr cu tura (AL)	Urban Park (PL)	Res dent a Low Dens ty (RL _{LD})	Res dent a H igh Dens ty (RL _{HD})	Commerc a (CL)	Industr a (IL)
sethoxydim	74051-80-2	NS	NS	NS	NS	NS	NS	NS	NS
silver	7440-22-4	15	20	20	20	20	40	40	40
silvex	93-72-1	NS	NS	NS	NS	NS	NS	NS	NS
simazine	122-34-9	NS	NS	NS	NS	NS	NS	NS	NS
strontium	7440-24-6	NS	NS	NS	NS	NS	NS	NS	NS
strychnine	57-24-9	NS	NS	NS	NS	NS	NS	NS	NS
styrene	100-42-5	3	5	0.1	5	5	50	50	50
styrene-acrylonitrile [SAN] trimer (all isomers)	NA	NS	NS	NS	NS	NS	NS	NS	NS
sulfotep	3689-24-5	NS	NS	NS	NS	NS	NS	NS	NS
sulfur, elemental	7704-34-9			2.000					
TCMTB	21564-17-0	NS	NS	NS	NS	NS	NS	NS	NS
tebuthiuron	34014-18-1	NS	NS	NS	NS	NS	NS	NS	NS
temphos	3383-96-8	NS	NS	NS	NS	NS	NS	NS	NS
terbacil	5902-51-2	NS	NS	NS	NS	NS	NS	NS	NS
terbufos	13071-79-9	NS	NS	NS	NS	NS	NS	NS	NS
terbutryn	886-50-0	NS	NS	NS	NS	NS	NS	NS	NS
tetrachlorobenzene, 1,2,3,4-	634-66-2	15	2	0.05	2	2	10	10	10
tetrachlorobenzene, 1,2,3,5-	634-90-2	15	2	0.05	2	2	10	10	10
tetrachlorobenzene, 1,2,4,5-	95-94-3	15	2	0.05	2	2	10	10	10
tetrachloroethane, 1,1,1,2-	630-20-6	NS	NS	NS	NS	NS	NS	NS	NS
tetrachloroethane, 1,1,2,2-	79-34-5	NS	NS	NS	NS	NS	NS	NS	NS
tetrachlorophenol, 2,3,4,5-	4901-51-3	03	0.5	0.05	0.5	0.5	5	5	5
tetrachlorophenol, 2,3,4,6-	58-90-2	03	0.5	0.05	0.5	0.5	5	5	5
tetrachlorophenol, 2,3,5,6-	935-95-5	03	0.5	0.05	0.5	0.5	5	5	5
tetrachlorovinphos	961-11-5	NS	NS	NS	NS	NS	NS	NS	NS
tetraethyl lead	78-00-2	NS	NS	NS	NS	NS	NS	NS	NS
tetrahydrofuran	109-99-9	NS	NS	NS	NS	NS	NS	NS	NS
tetryl	479-45-8	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds Natura (WL _N)	Winds Reverted (WL _R)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
thallium	7440-28-0	5.5	9	9	9	9	25	25	25
thiolsulfuron-methyl	79277-27-3	NS	NS	NS	NS	NS	NS	NS	NS
thiobencarb	28249-77-6	NS	NS	NS	NS	NS	NS	NS	NS
thiocyanate	302-04-5	NS	NS	NS	NS	NS	NS	NS	NS
thiodiglycol	111-48-8	NS	NS	NS	NS	NS	NS	NS	NS
thiofanox	39196-18-4	NS	NS	NS	NS	NS	NS	NS	NS
thiophanate-methyl	23564-05-8	NS	NS	NS	NS	NS	NS	NS	NS
thiophenol	108-98-5	NS	NS	NS	NS	NS	NS	NS	NS
thiram	137-26-8	NS	NS	NS	NS	NS	NS	NS	NS
tin	7440-31-5	30	50	5	50	50	300	300	300
toxaphene (all isomers)	8001-35-2	NS	NS	NS	NS	NS	NS	NS	NS
tralomethrin	66841-25-6	NS	NS	NS	NS	NS	NS	NS	NS
triadimefon	43121-43-3	NS	NS	NS	NS	NS	NS	NS	NS
trilalate	2303-17-5	NS	NS	NS	NS	NS	NS	NS	NS
triasulfuron	82097-50-5	NS	NS	NS	NS	NS	NS	NS	NS
tribenuron-methyl	101200-48-0	NS	NS	NS	NS	NS	NS	NS	NS
tribromobenzene, 1,2,4-	615-54-3	NS	NS	NS	NS	NS	NS	NS	NS
tribufos	78-48-8	NS	NS	NS	NS	NS	NS	NS	NS
tributyl phosphate	126-73-8	NS	NS	NS	NS	NS	NS	NS	NS
tributyltin	36643-28-4	NS	NS	NS	NS	NS	NS	NS	NS
trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	NS	NS	NS	NS	NS	NS	NS	NS
trichloroacetic acid	76-03-9	NS	NS	NS	NS	NS	NS	NS	NS
trichloroaniline, 2,4,6-	634-93-5	NS	NS	NS	NS	NS	NS	NS	NS
trichlorobenzene, 1,2,3-	87-61-6	1.5	2	0.05	2	2	10	10	10
trichlorobenzene, 1,2,4-	120-82-1	1.5	2	0.05	2	2	10	10	10
trichlorobenzene, 1,3,5-	108-70-3	1.5	2	0.05	2	2	10	10	10
trichloroethane, 1,1,1-	71-55-6	3	5	0.1	5	5	50	50	50
trichloroethane, 1,1,2-	79-00-5	3	5	0.1	5	5	50	50	50

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Wild and Natural (WL _N)	Wild and Reverted (WL _R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
trichlorofluoromethane	75-69-4	NS	NS	NS	NS	NS	NS	NS	NS
trichloropheno, 2,3,4-	15950-66-0	0.3	0.5	0.05	0.5	0.5	5	5	5
trichloropheno, 2,3,5-	933-78-8	0.3	0.5	0.05	0.5	0.5	5	5	5
trichloropheno, 2,3,6-	933-75-5	0.3	0.5	0.05	0.5	0.5	5	5	5
trichloropheno, 2,4,5-	95-95-4	0.3	0.5	0.05	0.5	0.5	5	5	5
trichloropheno, 2,4,6-	88-06-2	0.3	0.5	0.05	0.5	0.5	5	5	5
trichloropheno, 3,4,5-	609-19-8	0.3	0.5	0.05	0.5	0.5	5	5	5
trichlorophenoxyacetic acid, 2,4,5-[2,4,5-T]	93-76-5	NS	NS	NS	NS	NS	NS	NS	NS
trichloropropane, 1,1,2-	598-77-6	NS	NS	NS	NS	NS	NS	NS	NS
trichloropropane, 1,2,3-	96-18-4	NS	NS	NS	NS	NS	NS	NS	NS
trichloropropene, 1,2,3-	96-19-5	NS	NS	NS	NS	NS	NS	NS	NS
trichlorophosphate [TCP]	1330-78-5	NS	NS	NS	NS	NS	NS	NS	NS
tridiphane	58138-08-2	NS	NS	NS	NS	NS	NS	NS	NS
triethylene glycol	112-27-6	NS	NS	NS	NS	NS	NS	NS	NS
trifluralin	1582-09-8	NS	NS	NS	NS	NS	NS	NS	NS
trimethyl phosphate	512-56-1	NS	NS	NS	NS	NS	NS	NS	NS
trimethylbenzene, 1,3,5-	108-67-8	NS	NS	NS	NS	NS	NS	NS	NS
trinitrobenzene, 1,3,5-	99-35-4	NS	NS	NS	NS	NS	NS	NS	NS
trinitrotoluene, 2,4,6-	118-96-7	NS	NS	NS	NS	NS	NS	NS	NS
tris(1,3-dichloro-2-propyl)phosphate [TDCPP]	13674-87-8	NS	NS	NS	NS	NS	NS	NS	NS
tris(1-chloro-2-propyl)phosphate [TCPP]	13674-84-5	NS	NS	NS	NS	NS	NS	NS	NS
tris(2,3-dibromopropyl)phosphate	126-72-7	NS	NS	NS	NS	NS	NS	NS	NS
tris(2-chloroethyl)phosphate [TCEP]	115-96-8	NS	NS	NS	NS	NS	NS	NS	NS
tris(2-ethylhexyl)phosphate	78-42-2	NS	NS	NS	NS	NS	NS	NS	NS
tungsten	7440-33-7	NS	NS	NS	NS	NS	NS	NS	NS

**SCHEDULE 3.1 – PART 3
GENERIC NUMERICAL SOIL STANDARDS TO PROTECT ECOLOGICAL HEALTH^{1,2}**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	COLUMN 10
Substance	Chemical Abstract Service Number (CAS) ³	Winds Natural (WL _N)	Winds Reverted (WL _R)	Agriculture (AL)	Urban Park (PL)	Residential Low Density (RL _{LD})	Residential High Density (RL _{HD})	Commercial (CL)	Industrial (IL)
verolate	1929-77-7	NS	NS	NS	NS	NS	NS	NS	NS
vinclizolin	50471-44-8	NS	NS	NS	NS	NS	NS	NS	NS
vinyl acetate	108-05-4	NS	NS	NS	NS	NS	NS	NS	NS
vinyl chloride	75-01-4	NS	NS	NS	NS	NS	NS	NS	NS
VPHs ⁸	NA	150	200	200	200	200	200	200	200
warfarin	81-81-2	NS	NS	NS	NS	NS	NS	NS	NS
zineb	12122-67-7	NS	NS	NS	NS	NS	NS	NS	NS

Notes

- All values in µg/g unless otherwise stated
- NS – No Standard
- NA – Not Applicable No CAS number exists for the substance
- HEPHs – Heavy Extractable Petroleum Hydrocarbons in soil is the sum of extractable petroleum hydrocarbons with a carbon range from 19 to 32 obtained by the approved methods minus the sum of benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and pyrene, where approved methods are specified by a director's protocol
- LEPHs – Light Extractable Petroleum Hydrocarbons in soil is the sum of extractable petroleum hydrocarbons with a carbon range from 10 to 19 obtained by the approved methods minus the sum of naphthalene and phenanthrene, where approved methods are specified by a director's protocol
- The presence of nonaqueous phase liquids as determined in accordance with a director's protocol
- The presence of odorous substances as determined in accordance with a director's protocol
- VPHs – Volatile Petroleum Hydrocarbons in soil includes the sum of volatile hydrocarbons with a carbon range from 6 to 10 obtained by approved methods minus the sum of benzene, ethylbenzene, styrene, toluene and xylenes, where approved methods are specified by a director's protocol

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
acenaphthene	83-32-9	60			250
acephate	30560-19-1				15
acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	94-74-6	26 ⁴ , 42 ⁵	0.025	25	100
acetochlor	34256-82-1				80
acetone	67-64-1				3 500
acetophenone	98-86-2				400
acridine	260-94-6	0.5			
acrolein	107-02-8	10		3	3
acrylamide	79-06-1				0.1
acrylic acid	79-10-7				2 000
acrylonitrile	107-13-1				5
adipic acid	124-04-9				8 000
alachlor	15972-60-8				3
aldicarb	116-06-3	10 ⁴ , 1.5 ⁵	54.9 ⁶ , 67.5 ⁷	11	4
aldicarb sulfone	1646-88-4				4
aldrin	309-00-2	0.04 ⁸		0.7 ⁸	0.009
allyl alcohol	107-18-6				20
allyl chloride	107-05-1				7.5
aluminum	7429-90-5		5 000	5 000	9 500
ametryn	834-12-8				3.5
aminobiphenyl, 4-	92-67-1				0.0075
aminophenol, 3-	591-27-5				300
aminophenol, 4-	123-30-8				80
amitraz	33089-61-1				10

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
ammonia, total (as N)	7664-41-7	1 310 @ pH ≥ 8.5 ^{4,9} 3 700 @ pH 8.0 – < 8.5 ^{4,9} 11 300 @ pH 7.5 – < 8.0 ^{4,9} 18 500 @ pH 7.0 – < 7.5 ^{4,9} 18 400 @ pH < 7.0 ^{4,9} 2 300 @ pH ≥ 8.5 ^{5,10} 6 850 @ pH 8.0 – < 8.5 ^{5,10} 20 000 @ pH 7.5 – < 8.0 ^{5,10} 64 000 @ pH 7.0 – < 7.5 ^{5,10} 200 000 @ pH < 7.0 ^{5,10}			
aniline	62-53-3	20			30
anthracene	120-12-7	1			1000
anthraquinone, 9,10-	84-65-1				4
antimony	7440-36-0	90 ⁴ , 2 500 ⁵			6
aramite	140-57-8				6
arsenic	7440-38-2	50 ⁴ , 125 ⁵	100	25	10
asbestos	1332-21-4				7 m f/L ^{1,1}
asulam	3337-71-1				200
atrazine	1912-24-9	20 ⁴ , 100 ⁵	10	60	5
auramine	492-80-8				0.2
aziphos-methyl	86-50-0			20	20
azobenzene	103-33-3				1.5
azodicarbonamide	123-77-3				4 000
barium	7440-39-3	10 000 ⁴ , 5 000 ⁵			1 000
benfluralin	1861-40-1				1 000
benomyl	17804-35-2				200
bensulfuron-methyl	83055-99-6				800
bentazon	25057-89-0				100
benz(a)anthracene	56-55-3	1			0.07

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
benzene	71-43-2	400 ⁴ , 1 000 ⁵			5
benzidine	92-87-5				0.1
benzo(a)pyrene	50-32-8	0.1			0.01
benzo(b+j)fluoranthenes	205-99-2 & 205-82-3				0.07
benzoic acid	65-85-0				1.5 000
benzotrichloride	98-07-7				0.5
benzyl alcohol	100-51-6				400
benzyl chloride	100-44-7				0.9
beryllium	7440-41-7	1.5 ⁴ , 1 000 ⁵	100	100	8
bifénox	42576-02-3				35
biphenyl, 1,1'-	92-52-4				2 000
bis(2-chloro-1-methylethyl) ether	108-60-1				150
bis(2-chloroethoxy) methane	111-91-1				10
bis(2-chloroethyl) ether	111-44-4				0.15
bis(2-ethylhexyl) adipate	103-23-1				150
bis(2-ethylhexyl) phthalate [DEHP]	117-81-7	160			10
bisphenol A	80-05-7				200
boron	7440-42-8	12 000	500 – 6 000 ¹²	5 000	5 000
bromacil	314-40-9	50	0.2 ¹³ , 0.6 ¹⁴	1 100	
bromate	15541-45-4				10
bromo-2-chloroethane, 1-	107-04-0				1
bromobenzene	108-86-1				30
bromodichloromethane [BDCM]	75-27-4			100	100 ¹⁵
bromoform	75-25-2			100	100 ¹⁵
bromomethane	74-83-9				5.5
bromophos	2104-96-3				20
bromoxynil	1689-84-5	50	0.35 ⁷	11	5

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
butadiene, 1,3-	106-99-0				1
butanoic acid, 4-(4-chloro-2-methylphenoxy)- [MCPB]	94-81-5				40
butanol, 2-	78-92-2				8 000
butanol, n-	71-36-3				400
butoxy ethanol, 2-	111-76-2				400
butyl benzyl phthalate	85-68-7				80
butyl phthalyl butyl glycolate	85-70-1				4 000
butylate	2008-41-5				200
butylated hydroxytoluene [BHT]	128-37-0				45
butylbenzene, n-	104-51-8				200
butylbenzene, sec-	135-98-8				400
butylbenzene, tert-	98-06-6				400
cacodylic acid	75-60-5				80
cadmium	7440-43-9	0.5 @ H < 30 ^{4,16} 1.5 @ H 30 – < 90 ^{4,16} 2.5 @ H 90 – < 150 ^{4,16} 3.5 @ H 150 – < 210 ^{4,16} 4 @ H ≥ 210 ^{4,16} 15 ⁵	5	80	5
calcium	7440-70-2			1 000 mg/L	
caprolactam	105-60-2				2 000
captafol	2425-06-1				1
captan	133-06-2	15		10	70
carbaryl	63-25-2	2 ⁴ , 3 ⁵		1 100	90
carbofuran	1563-66-2	18		45	90
carbon disulfide	75-15-0				400
carbon tetrachloride	56-23-5	130		5	2
carbosulfan	55285-14-8				40

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
carboxin	5234-68-4				400
catechol	120-80-9	2 000			
chloramben	133-90-4				60
chloranil	118-75-2				0 4
chlordane (cis + trans)	5103-71-9 & 5103-74-2	0 06		7	0 45
chlordecone	143-50-0				0 015
chlorfenvinphos	470-90-6				3
chloride ion	16887-00-6	1 500 mg/L ⁴	100 mg/L ¹⁷	600 mg/L	250 mg/L
chlorimuron, ethyl-	90982-32-4				80
chlorine (Cl ₂)	7782-50-5	20 ⁴ , 30 ⁵	1 000		
chloro-2-methylamine, 4-	95-69-2				1 5
chloroacetaldehyde, 2-	107-20-0				0 6
chloroamine, p-	106-47-8				0 8
chlorobenzene	108-90-7	13 ⁴ , 250 ⁵			80
chlorobenzilate	510-15-6				1 5
chlorobenzoic acid, 4-	74-11-3				100
chlorobenzotrifluoride, 4-	5216-25-1				0 05
chlorobenzotrifluoride, 4-	98-56-6				10
chlorobutane, 1-	109-69-3				150
chloroethanol, 2-	107-07-3				80
chloroform	67-66-3	20		100	100 ¹⁵
chloronaphthalene, 2-	91-58-7				300
chloronitrobenzene, 2-	88-73-3				0 5
chloronitrobenzene, 4-	100-00-5				4
chlorophenol, 2-	95-57-8	19 5 – 2 600 ¹⁸		0 1 ¹⁹	45
chlorophenol, 3-	108-43-0	17 – 2 300 ¹⁸		0 1 ¹⁹	
chlorophenol, 4-	106-48-9	8 5 – 1 180 ¹⁸		0 1 ¹⁹	

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
chloroprene	126-99-8				80
chlorothalonil	1897-45-6	2 ⁴ , 4 ⁵	5 8	170	50
chlorotoluene, 2-	95-49-8				80
chlorotoluene, 4-	106-43-4				80
chlorpropham	101-21-3				800
chlorpyrifos	2921-88-2	0 02		24	90
chlorpyrifos-methyl	5598-13-0				40
chlorsulfuron	64902-72-3				200
chlorthal-dimethyl	1861-32-1				40
chlorthiophos	60238-56-4				3
chromium, hexavalent	18540-29-9	10 ⁴ , 15 ⁵	8	50	50
chromium, trivalent	16065-83-1	90 ⁴ , 560 ⁵	5	50	6 000
chrysene	218-01-9	1			7
clofentazine	74115-24-5				50
cobalt	7440-48-4	40	50	1 000	1
copper	7440-50-8	20 @ H < 50 ^{4,16} 30 @ H = 50 - < 75 ^{4,16} 40 @ H = 75 - < 100 ^{4,16} 50 @ H = 100 - < 125 ^{4,16} 60 @ H = 125 - < 150 ^{4,16} 70 @ H = 150 - < 175 ^{4,16} 80 @ H = 175 - < 200 ^{4,16} 90 @ H ≥ 200 ^{4,16} 20 ⁵	200	300	1 500
crotonaldehyde, trans-	123-73-9				5
cyanazine	21725-46-2	20	0 5	10	0 2
cyanide	57-12-5	50 ⁴ , 10 ⁵			200
cyanogen	460-19-5				4

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3				7
cyclohexanone	108-94-1				20 000
cyclohexene	110-83-8				20
cyclohexylamine	108-91-8				800
cyfluthrin	68359-37-5				100
cyhalothrin	68085-85-8				20
cypemethrin	52315-07-8				40
cyromazine	66215-27-8				30
dalapon	75-99-0				100
daminozide	1596-84-5				8.5
deltamethrin	52918-63-5	0.1		2.5	
demeton	8065-48-3				0.15
diallate	2303-16-4				2.5
diaminotoluene, 2,5-	95-70-5				1
diazinon	333-41-5	0.03		14	20
dibenz(a,h)anthracene	53-70-3				0.01
dibenzofuran	132-64-9				4
dibenzothiophene	132-65-0				40
dibromo-3-chloropropane, 1,2-	96-12-8				0.5
dibromobenzene, 1,3-	108-36-1				1.5
dibromobenzene, 1,4-	106-37-6				40
dibromochloromethane [DBCM]	124-48-1			100	100 ⁵
dibromoethane, 1,2-	106-93-4				0.5
dibutyl phthalate [DBP]	84-74-2	190			400
dibutyltin	14488-53-0	0.8			
dicamba	1918-00-9	100	0.1	122	120
dichlorobenzene, 1,2-	95-50-1	7 ⁴ , 420 ⁵			200

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
dichlorobenzene, 1,3-	541-73-1	1 500			
dichlorobenzene, 1,4-	106-46-7	260			5
dichlorobenzidine, 3,3'-	91-94-1				0.35
dichlorodifluoromethane	75-71-8				800
dichlorodiphenyl sulfone, 4,4'-	80-07-9				3
dichlorodiphenyltrichloroethane, total [DDT] ³¹	NA ²¹	0 01		30	0.45
dichloroethane, 1,1-	75-34-3				30
dichloroethane, 1,2-	107-06-2	1 000		5	5
dichloroethylene, 1,1-	75-35-4				1.4
dichloroethylene, 1,2-cis-	156-59-2				8
dichloroethylene, 1,2-trans-	156-60-5				80
dichloromethane	75-09-2	980		50	50
dichlorophenol, 2,3-	576-24-9	5 5 – 760 ¹⁸		0.3 ²²	
dichlorophenol, 2,4-	120-83-2	3 – 400 ¹⁸		0.3 ²²	900
dichlorophenol, 2,5-	583-78-8	2.5 – 340 ¹⁸		0.3 ²²	
dichlorophenol, 2,6-	87-65-0	10 – 1 360 ¹⁸		0.3 ²²	
dichlorophenol, 3,4-	95-77-2	3 – 400 ¹⁸		0.3 ²²	
dichlorophenol, 3,5-	591-35-5	2.5 – 300 ¹⁸		0.3 ²²	
dichlorophenoxyacetic acid, 2,4-[2,4-D]	94-75-7	40		100	100
dichlorophenoxy(2,4-)butyric acid, 4-[2,4-DB]	94-82-6				30
dichloropropane, 1,2-	78-87-5				4.5
dichloropropane, 1,3-	142-28-9				80
dichloropropanol, 2,3-	616-23-9				10
dichloropropene, 1,3- (cis + trans)	542-75-6				1.5
dichlorvos	62-73-7				0.55
diclofop-methyl	51338-27-3	61	0.18	9	9

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
dicrotophos	141-66-2				0.4
dicyclopentadiene	77-73-6				300
dieldrin	60-57-1	0.04 ⁸		0.7	0.01
diethanolamine	111-42-2				8
diethyl ether	60-29-7				800
diethyl phthalate	84-66-2				3 000
diethyldithiocarbamate	392-74-5				0.6
diethylene glycol monobutyl ether	112-34-5				100
diethylene glycol monoethyl ether	111-90-0				250
diethylformamide	617-84-5				4
diflubenzuron	35367-38-5				80
diisobutylene	25167-70-8				40
diisopropanolamine [DIPA] ²³	110-97-4	15 000	39 000	38 000	3 500
dimethipin	55290-64-7				80
dimethoate	60-51-5	62		3	20
dimethoxybenzidine, 3,3'-	119-90-4				0.1
dimethyl methylphosphonate	756-79-6				90
dimethylaminoazobenzene, 4- [DAB]	60-11-7				0.035
dimethylamine, 2,4-	95-68-1				0.8
dimethylamine, N,N- [DMA]	121-69-7				8
dimethylbenz(a)anthracene, 7,12-	57-97-6				0.02
dimethylbenzidine, 3,3'-	119-93-7				0.015
dimethylformamide	68-12-2				400
dimethylhydrazine, 1,1-	57-14-7				0.4
dimethylphenol, 2,4-	105-67-9				80
dimethylphenol, 2,6-	576-26-1				2.5
dimethylphenol, 3,4-	95-65-8				4

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
dimethylterephthalate	120-61-6				400
dinitrobenzene, 1,2-	528-29-0				0.4
dinitrobenzene, 1,3-	99-65-0				0.4
dinitrobenzene, 1,4-	100-25-4				0.4
dinitro-o-cyclohexyl phenol, 4,6-	131-89-5				8
dinitrophenol, 2,4-	51-28-5	2.000			8
dinitrotoluene, 2,4-	121-14-2				0.5
dinitrotoluene, 2,6-	606-20-2				0.1
dinitrotoluene, 2-amino-4,6-	35572-78-2				8
dinitrotoluene, 4-amino-2,6-	19406-51-0				8
dinoseb	88-85-7	0.5	16 ¹⁷ , 46 ²⁴ , 93 ¹⁴	150 ²⁵	4
dioxane, 1,4-	123-91-1				1.5
diphenamid	957-51-7				100
diphenyl sulfone	127-63-9				3
diphenyl-1,4-benzenediamine, N,N'-	74-31-7				1
diphenylamine	122-39-4				100
diquat (as dibromide)	85-00-7			70	70
Direct Black 38	1937-37-7				0.02
Direct Brown 95	16071-86-6				0.025
disulfoton	298-04-4				0.15
diuron	330-54-1			150	150
dodine	2439-10-3				15
endosulfan I + II	115-29-7	0.01 ^{5,8} , 0.015 ⁶			25
endothall	145-73-3				80
endrin	72-20-8	0.023		0.2	1
EPHw10-19 ^{26,27}	NA ²¹	5.000	5.000	5.000	5.000
EPTC	759-94-4				100

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
ethanol, 2-(2-methoxyethoxy)-	111-77-3				150
ethephon	16672-87-0				20
ethinyloestradiol, 17-alpha [EE2] ²⁸	57-63-6	0.005			
ethion	563-12-2				2
ethoxyethanol, 2-	110-80-5				350
ethoxyethanol acetate, 2-	111-15-9				400
ethyl acetate	141-78-6				3 500
ethyl acrylate	140-88-5				20
ethyl-p-nitrophenyl benzenethionophosphonate [EPN]	2104-64-5				0.04
ethylbenzene	100-41-4	2 000 ⁴ , 2 500 ⁵			140
ethylene cyanohydrin	109-78-4				300
ethylene glycol	107-21-1	1 920 mg/L			8 000
ethylene thiourea	96-45-7				0.3
ethylenediamine	107-15-3				350
ethyleneimine	151-56-4				0.1
fenamiphos	22224-92-6				1
fenpropathrin	39515-41-8				100
fenvalerate	51630-58-1				100
fluometuron	2164-17-2				50
fluoranthene	206-44-0	2			150
fluorene	86-73-7	120			150
fluoride	16984-48-8	2 000 @ H < 50 ^{4,16} 3 000 @ H ≥ 50 ^{4,16}	1 000	1 000 ²⁹	1 500
fluridone	59756-60-4	15 000 ⁵			300
flurprimidol	56425-91-3				80
flusilazole	85509-19-9				3

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
flutolanil	66332-96-5				250
fluvialinate	69409-94-5				40
folpet	133-07-3				45
fomesafen	72178-02-0				0.8
fenofofos	944-22-9				8
formaldehyde	50-00-0				800
formic acid	64-18-6				3 500
fosetyl	15845-66-6				10 000
furan	110-00-9				4
furazolidone	67-45-8				0.04
furfural	98-01-1				10
furmeceylox	60568-05-0				5
furothiazole	531-82-8				0.1
glufosinate	53369-07-6				1.5
glycidialdehyde	765-34-4				1.5
glyphosate	1071-83-6	5 000		280	280
guanidine	113-00-8				40
haloxyfop, methyl	69806-40-2				0.2
heptachlor	76-44-8	0.1 ³⁰		3 ³⁰	0.035
heptachlor epoxide	1024-57-3	0.1 ³⁰		3 ³⁰	0.015
hexabromobiphenyl, 2,2',4,4',5,5'-	59536-65-1				0.005
hexachlorobenzene	118-74-1			0.5	0.1
hexachlorobutadiene	87-68-3	15			2
hexachlorocyclohexane, alpha	319-84-6	0.1 ³¹		4 ³¹	0.025
hexachlorocyclohexane, beta	319-85-7	0.1 ³¹		4 ³¹	0.085
hexachlorocyclohexane, gamma	58-89-9	0.1 ³¹		4 ³¹	0.15
hexachlorocyclopentadiene	77-47-4				25

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
hexachloroethane	67-72-1				3
hexachlorophene	70-30-4				1
hexahydro-1,3,5-trinitro-1,3,5-triazine [RDX]	121-82-4				1.5
hexamethylphosphoramide	680-31-9				1.5
hexanone, 2-	591-78-6				20
hexazinone	51235-04-2				150
hexythiazox	78587-05-0				100
hydramethylnon	67485-29-4				1
hydrazine	302-01-2				0.05
hydroquinone	123-31-9	45			2.5
imazail	35554-44-0				50
imazaquin	81335-37-7				1 000
imazethapyr	81335-77-5				1 000
iprodione	36734-19-7				150
iron ^{32,33}	7439-89-6		5 000		6 500
isobutanol	78-83-1				1 000
isophorone	78-59-1				150
isopropalin	33820-53-0				60
isopropanol	67-63-0				8 000
isopropylbenzene	98-82-8				400
isoxaben	82558-50-7				200
lactofen	77501-63-4				8
lead	7439-92-1	40 @ H < 50 ^{4,16} 50 @ H = 50 - < 100 ^{4,16} 60 @ H = 100 - < 200 ^{4,16} 110 @ H = 200 - < 300 ^{4,16} 160 @ H ≥ 300 ^{4,16} 20 ⁵	200	100	10

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
LEPHW ^{3,4}	NA ^{2,1}	500			
linuron	330-55-2	70	0 07 ¹³ , 3 3 ¹⁴		8
lithium	7439-93-2		2 500 ¹⁷	5 000	8
malathion	121-75-5	1		190	190
malononitrile	109-77-3				0 4
mancozeb	8018-01-7				100
maneb	12427-38-2				20
manganese ^{35,36}	7439-96-5		200		1 500
mecoprop [MCPP]	93-65-2				4
mercury	7439-97-6	0 25	1	2	1
merphos	150-50-5				0 1
metalaxyl	57837-19-1				250
methacrylonitrile	126-98-7				5
methamidophos	10265-92-6				0 2
methanol	67-56-1				8 000
methidathion	950-37-8				4
methomyl	16752-77-5				100
methoxy-5-nitroaniline, 2-	99-59-2				3
methoxychlor	72-43-5			900	20
methoxyethanol, 2-	109-86-4				20
methoxyethanol acetate, 2-	110-49-6				30
methyl acetate	79-20-9				4 000
methyl ethyl ketone [MEK]	78-93-3				2 500
methyl hydrazine	60-34-4				4
methyl mercury	22967-92-6	0 04			0 4
methyl methacrylate	80-62-6				5 500
methyl tert-butyl ether [MTBE]	1634-04-4	34 000 ⁴ , 4 400 ⁵		11 000	95

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
methyl-5-nitroaniline, 2-	99-55-8				15
methylaniline, 2-	95-53-4				1
methylaniline, 4-	106-49-0				5
methylaniline, N-	100-61-8				8
methylcholanthrene, 3-	56-49-5				0.02
methylene-bis(2-chloroaniline), 4,4'-	101-14-4				0.5
methylene-bis(N,N-dimethyl) aniline, 4,4'-	101-61-1				3.5
methylenebisbenzenamine, 4,4'-	101-77-9				0.1
methylnaphthalene, 1-	90-12-0				5.5
methylnaphthalene, 2-	91-57-6				15
methylphenol, 2-	95-48-7	2 500			200
methylphenol, 3-	108-39-4	800			200
methylphenol, 4-	106-44-5	700			400
methylphenol, 4-chloro-3-	59-50-7				400
methylstyrene, alpha-	98-83-9				300
metolachlor	51218-45-2	80	28	50	50
metribuzin	21087-64-9	10	0.5	80	80
metsulfuron-methyl	74223-64-6				1 000
mitrex	2385-85-5				0.0085
molinate	2212-67-1				8
molybdenum	7439-98-7	10 000	10 - 30 ³⁷	50	250
monochloramine	10599-90-3	5			3 000
monochloroacetic acid	79-11-8				80 ³⁸
monomethylarsonic acid	124-58-3				40
myclobutamil	88671-89-0				100
naled	300-76-5				8
naphthalene	91-20-3	10			80

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
naphthylamine, 2-	91-59-8				0.085
napropamide	15299-99-7				400
nickel	7440-02-0	250 @ H < 60 ^{4,16} 650 @ H 60 – < 120 ^{4,16} 1 100 @ H 120 – < 180 ^{4,16} 1 500 @ H ≥ 180 ^{4,16}	200	1 000	80
nitrate (as N)	14797-55-8	400 mg/L		100 mg/L	10 mg/L
nitrate and nitrite (as N)	NA ²¹	400 mg/L		100 mg/L	10 mg/L
nitritotriacetic acid [NTA]	139-13-9				400
nitrite (as N)	14797-65-0	200 (Cl < 2 mg/L) 400 (Cl 2 – < 4 mg/L) 600 (Cl 4 – < 6 mg/L) 800 (Cl 6 – < 8 mg/L) 1 000 (Cl 8 – < 10 mg/L) 2 000 (Cl ≥ 10 mg/L)		10 000	1 000
nitroamine, 2-	88-74-4				40
nitroamine, 4-	100-01-6				8
nitrobenzene	98-95-3				8
nitrofurazone	59-87-0				0.1
nitroglycerin	55-63-0				0.4
nitroguanidine	556-88-7				400
nitropyrene, 4-	57835-92-4				0.15
nitrosodiethanolamine, N-	1116-54-7				0.055
nitrosodimethylamine, N- [NDEA]	55-18-5				0.005
nitrosodimethylamine, N- [NDMA]	62-75-9				0.04
nitroso-di-N-butylamine, N-	924-16-3				0.03
nitroso-di-N-propylamine, N-	621-64-7				0.02
nitrosodiphenylamine, N-	86-30-6				30
nitrosomethylethylamine, N-	10595-95-6				0.007

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
nitrosomorpholine, N-	59-89-2				0.025
nitrosopiperidine, N-	100-75-4				0.015
nitrosopyrrolidine, N-	930-55-2				0.075
nitrotoluene, 2-	88-72-2				0.7
nitrotoluene, 3-	99-08-1				0.4
nitrotoluene, 4-	99-99-0				10
nonane, n-	111-84-2				1
nonaqueous phase liquids ^{3,6,39}	NA ²¹	not present	not present	not present	not present
nonylphenol and nonylphenol ethoxylates ^{40,41}	84852-15-3	10 ⁴ , 7 ⁵			45
norflurazon	27314-13-2				150
octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine [HMX]	2691-41-0				200
octamethylpyrophosphoramide [OMPA]	152-16-9				8
octyl phthalate, di-N- [DNOP]	117-84-0				40
oryzalin	19044-88-3				200
oxadiazon	19666-30-9				20
oxamyl	23135-22-0				100
oxyfluorfen	42874-03-3				10
paclobutrazol	76738-62-0				50
paraquat (as dichloride)	1910-42-5			10	10
parathion	56-38-2			50	25
parathion, methyl	298-00-0				1
pebulate	1114-71-2				200
pendimethalin	40487-42-1				150
pentachlorobenzene, 1,2,3,4,5-	608-93-5	60			3
pentachloroethane	76-01-7				1.5
pentachloronitrobenzene [PCNB]	82-68-8				0.6

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
pentachlorophenol [PCP]	87-86-5	1 – 110 ⁸		30	60
pentaerythritol tetranitrate [PETN]	78-11-5				8
perchlorate	14797-73-0				3
perfluorobutane sulfonate [PFBS] ⁴²	375-73-5				80
perfluorooctane sulfonate [PFOS] ⁴²	1763-23-1	60			0.3
perfluorooctanoic acid [PFOA] ⁴²	335-67-1				0.2
permethrin (cis + trans)	52645-53-1	0.04 ⁴ , 0.01 ⁵			450
phenanthrene	85-01-8	3			
phenmedipham	13684-63-4				1 000
phenol	108-95-2	2 000			1 000
phenol, 2-methyl-4,6-dinitro [DNOC]	534-52-1	750			1
phenothiazine	92-84-2				2
phenylenediamine, m- [MPD]	108-45-2				25
phenylenediamine, o- [OPD]	95-54-5				3.5
phenylenediamine, p- [PPD]	106-50-3				750
phenylphenol, 2-	90-43-7				80
phorate	298-02-2			2	2
phosmet	732-11-6				80
phthalic acid, p-	100-21-0				4 000
picloram	1918-02-1	290	0.5	190	190
picramic acid	96-91-3				0.4
picric acid	88-89-1				3.5
pirimiphos, methyl	29232-93-7				40
prochloraz	67747-09-5				1
profluralin	26399-36-0				25
prometon	1610-18-0				60
prometryn	7287-19-6				15

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
propachlor	1918-16-7				50
propanil	709-98-8				20
propargite	2312-35-8				80
propargyl alcohol	107-19-7				8
propazine	139-40-2				80
propham	122-42-9				80
propiconazole	60207-90-1				50
propylbenzene, 1-	103-65-1				400
propylene glycol, 1,2-	57-55-6	5 000 mg/L			80 mg/L
propylene glycol monomethyl ether	107-98-2				3 000
propylene oxide	75-56-9				0.65
propylamide	23950-58-5				300
pyrene	129-00-0	0.2			100
pyridine	110-86-1				4
quinalphos	13593-03-8				2
quinoline	91-22-5	34			0.05
quizalofop-ethyl	76578-14-8				35
resmethrin	10453-86-8				100
resorcinol	108-46-3	150			4 500
ronnel	299-84-3				200
rotenone	83-79-4				15
salinity ³	NA ²¹	15 ⁴ 10 if natural salinity is > 1.5 – < 3.5 ⁵ 20 if natural salinity is 3.5 – < 13.5 ⁵ 40 if natural salinity is ≥ 13.5 ⁵			

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
selenious acid	7783-00-8				20
selenium	7782-49-2	20	20 ⁴¹ , 50 ⁴⁵	30	10
sethoxydim	74051-80-2				350
silver	7440-22-4	0.5 @ H ≤ 100 ^{4,16} 15 @ H > 100 ^{4,16} 15 ⁵			20
silvex	93-72-1				30
simazine	122-34-9	100	0.5	10	10
sodium ion	17341-25-2				200 mg/L
strontium	7440-24-6				2 500
strychnine	57-24-9				1
styrene	100-42-5	720			800
styrene-acrylonitrile [SAN] trimer (all isomers)	NA ²¹				10
sulfate	14808-79-8	1 280 mg/L @ H ≤ 30 ¹⁶ 2 180 mg/L @ H 31 – 75 ¹⁶ 3 090 mg/L @ H 76 – 180 ¹⁶ 4 290 mg/L @ H > 180 ¹⁶		1 000 mg/L	500 mg/L
sulfide, uni-ionized (as H ₂ S)	7783-06-4	20			50
sulfolane ²³	126-33-0	500 000	8 400	14 000	90
sulfotep	3689-24-5				2
TCMTB	21564-17-0				100
tebuthiuron	34014-18-1	16	0.25 ¹⁴	130	300
temephos	3383-96-8			280	80
terbacil	5902-51-2				50
terbufos	13071-79-9			1	1
terbutryn	886-50-0				4
tetrachlorobenzene, 1,2,3,4-	634-66-2	18			
tetrachlorobenzene, 1,2,4,5-	95-94-3				1

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
tetrachloroethane, 1,1,1,2-	630-20-6				6
tetrachloroethane, 1,1,2,2-	79-34-5				0 8
tetrachloroethylene	127-18-4	1 100			30
tetrachlorophenol, 2,3,4,5-	4901-51-3	2 – 260 ¹⁸		1 ⁴⁶	
tetrachlorophenol, 2,3,4,6-	58-90-2	5 5 – 720 ¹⁸		1 ⁴⁶	100
tetrachlorophenol, 2,3,5,6-	935-95-5	2 5 – 340 ¹⁸		1 ⁴⁶	
tetrachlorovinphos	961-11-5				6 5
tetraethyl lead	78-00-2				0 001
tetrahydrofuran	109-99-9				3 500
tetryl	479-45-8				8
thallium	7440-28-0	3			
thifensulfuron-methyl	79277-27-3				50
thiobencarb	28249-77-6				40
thiocyanate	302-04-5				200
thiodiglycol	111-48-8				300
thiofanox	39196-18-4				1
thiophanate, methyl	23564-05-8				300
thiophenol	108-98-5				4
thiram	137-26-8				20
tin	7440-31-5				2 500
titanium	7440-32-6	1 000			
toluene	108-88-3	5 ⁴ , 2 000 ⁵			60
toxaphene (all isomers)	8001-35-2	0 08		5	0 15
tralomethrin	66841-25-6				30
triadimefon	43121-43-3				100
triallate	2303-17-5	2 4		230	50
triasulfuron	82097-50-5				40

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
tribenuron-methyl	101200-48-0				30
tribromobenzene, 1,2,4-	615-54-3				20
tribufos	78-48-8				0.1
tributyl phosphate	126-73-8				15
tributyltin	36643-28-4	0.08 ⁴ , 0.05 ⁵		250	
trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1				100 000
trichloroaniline, 2,4,6-	634-93-5				0.1
trichlorobenzene, 1,2,3-	87-61-6	80			3
trichlorobenzene, 1,2,4-	120-82-1	240 ⁴ , 54 ⁵			5.5
trichloroethane, 1,1,1-	71-55-6				8 000
trichloroethane, 1,1,2-	79-00-5				3
trichloroethylene	79-01-6	200		50	5
trichlorofluoromethane	75-69-4				1 000
trichlorophenol, 2,3,4-	15950-66-0	2.5 – 320 ¹⁸		2 ⁴⁷	
trichlorophenol, 2,3,5-	933-78-8	2.5 – 340 ¹⁸		2 ⁴⁷	
trichlorophenol, 2,3,6-	933-75-5	8 – 1 080 ¹⁸		2 ⁴⁷	
trichlorophenol, 2,4,5-	95-95-4	2.5 – 300 ¹⁸		2 ⁴⁷	400
trichlorophenol, 2,4,6-	88-06-2	6 – 800 ¹⁸		2 ⁴⁷	5
trichlorophenol, 3,4,5-	609-19-8	1 – 128 ¹⁸		2 ⁴⁷	
trichlorophenoxy acetic acid, 2,4,5-[2,4,5-Γ]	93-76-5			20	40
trichloropropane, 1,1,2-	598-77-6				20
trichloropropane, 1,2,3-	96-18-4				0.5
trichloropropene, 1,2,3-	96-19-5				10
trimesyl phosphate [TCP]	1330-78-5				80
tricyclohexyltin	NA ²¹			250	
tridiphane	58138-08-2				10
triethylene glycol	112-27-6				8 000

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
triethyltin	NA ²¹	4			
trifluralin	1582-09-8	2		45	45
trimethyl phosphate	512-56-1				8
trimethylbenzene, 1,3,5-	108-67-8				40
trinitrobenzene, 1,3,5-	99-35-4				100
trinitrotoluene, 2,4,6-	118-96-7				2
triphenyltin	668-34-8	0.2		800	
tris(1,3-dichloro-2-propyl)phosphate [TDCPP]	13674-87-8				80
tris(1-chloro-2-propyl)phosphate [TCPP]	13674-84-5				40
tris(2,3-dibromopropyl)phosphate	126-72-7				0.07
tris(2-chloroethyl)phosphate [TCEP]	115-96-8				8
tris(2-ethylhexyl)phosphate	78-42-2				50
tungsten	7440-33-7				3
uranium	7440-61-1	85	10	200	20
vanadium	7440-62-2		100	100	20
vermolate	1929-77-7				4
VHw6-10 ^{26&48}	NA ²¹	15 000	15 000	15 000	15 000
vinclozolin	50471-44-8				100
vinyl acetate	108-05-4				4 000
vinyl chloride	75-01-4				2
VPHw ⁴⁹	NA ³²	1 500			
warfarin	81-81-2				1
xylenes, total	1330-20-7	300			90

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life ² (AW)	Irrigation ² (IW)	Livestock ² (LW)	Drinking Water ³ (DW)
Zinc	7440-66-6	75 @ H < 90 ^{4,16} 150 @ H = 90 – < 100 ^{4,16} 900 @ H = 100 – < 200 ^{4,16} 1 650 @ H = 200 – < 300 ^{4,16} 2 400 @ H = 300 – < 400 ^{4,16} 100 ⁵	1 000 @ pH < 6.0 2 000 @ pH 6.0 – < 7.0 5 000 @ pH ≥ 7.0	2 000	3 000
Zincb	12122-67-7				200

Notes

- 1 All values are in µg/L unless otherwise stated
- 2 (a) Aquatic life standards assume minimum 1:10 dilution is available prior to discharge to the aquatic receiving environment. Aquatic life standards are to protect freshwater and marine life unless otherwise indicated
- 2 (b) Standards for all organic substances are for total substance concentrations. Any water sample to be analyzed for organic substances should not be filtered
- 2 (c) Standards for surface water samples to be analyzed for heavy metals, metalloids and inorganic ions are total substance concentrations
- 2 (d) Standards for groundwater samples for heavy metals, metalloids and inorganic ions are for dissolved substance concentrations
- 2 (e) Standards for irrigation water apply to irrigation of all soil types, unless otherwise indicated
- 3 Drinking water standards are for unfiltered samples obtained at the point of consumption. Heavy metals, metalloids and inorganic ions are expressed as total substance concentrations unless otherwise indicated
- 4 Standard to protect freshwater aquatic life. Water is to be considered freshwater if its psu is ≤ 1.5
- 5 Standard to protect marine and estuarine aquatic life. Water is to be considered marine or estuarine if its psu is > 1.5
- 6 Standard to protect crops other than legumes
- 7 Standard to protect legumes
- 8 Standard is applicable to the sum of the concentrations of aldrin and dieldrin
- 9 Standard varies with pH and temperature. 10 °C or less is assumed. If the water temperature is greater, modify the standard in accordance with a director's protocol
- 10 Standard varies with pH, temperature and salinity. 10 °C or less and 10 practical salinity units (psu) are assumed. For other conditions, modify the standard in accordance with a director's protocol
- 11 Standard is expressed in million fibres > 10 µm/L (m f/L)
- 12 Standard varies depending on crop as follows

Crop	Standards (µg/L)
blackberry	500
barley, cherry, cowpea, garlic, grape, Jerusalem artichoke, kidney bean, lima bean, mung bean, onion, peach, plum, sesame, strawberry, sunflower, sweet potato, wheat	1 000
carrot, cucumber, pea, potato, radish, red pepper	2 000
artichoke, bluegrass (Kentucky), cabbage, celery, clover, corn, lettuce, muskmelon, mustard, oat, squash, tobacco, turnip	4 000
alfalfa, asparagus, parsley, purple vetch, red beet, sorghum, sugar beet, tomato	6 000

- 13 Standard to protect crops other than cereals, tame hays and pasture
 14 Standard to protect cereals, tame hays and pasture crops
 15 Standard is specific for total trihalomethanes. Sum of the concentrations of bromodichloromethane (BDCM), dibromochloromethane (DBCM), bromoform (tribromomethane), and chloroform (trichloromethane) must not exceed the standard specified
 16 H mean water hardness in mg/L CaCO₃
 17 Standard to protect all types of crops
 18 Standard varies with pH, temperature and substance isomer, as specified in a director's protocol
 19 Standard is applicable to the sum of concentrations of all chlorophenol isomers
 20 Standards are for the sum of DDT (2,4' + 4,4' isomers), DDD (2,4' + 4,4' isomers), and DDE (2,4' + 4,4' isomers)
 21 NA – not applicable. No CAS number exists for the substance
 22 Standard is applicable to the sum of concentrations of all dichlorophenol isomers
 23 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item F2, F3, F7, or F10
 24 Standard to protect cereal crops and hay
 25 Standard to protect lactating dairy animals
 26 Standard is applicable at all sites, irrespective of water use. See section 11 (1) (b 1) of the regulation
 27 EPHW 10-19 – Extractable Petroleum Hydrocarbons (nC10-nC19) in water includes all the extractable petroleum hydrocarbons with a carbon range from 10 to 19 obtained from the approved methods, where approved methods are specified by a director's protocol
 28 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H16 or H17
 29 Standard varies with type of livestock

Livestock Type	Standard (µg/L)
Dairy cows, breeding stock, long-lived animals	1000
Livestock provided fluoride by bone meal or mineral additives	1000
All other types of livestock	2000

- 30 Standard is applicable to the sum of the concentrations of heptachlor and heptachlor epoxide
 31 Standard is applicable to the sum of the concentrations of all hexachlorocyclohexane isomers
 32 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
 (a) item A6, A7, A8, or A11,
 (b) item C1, C2, C3, C4, or C6,
 (c) item D2, D3, D5 or D6,
 (d) item E4, or
 (e) item H12
 33 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H9 or H18, but only if the site was used for that purpose or activity in conjunction with, or as a result of, the site also being used for at least one of the purposes or activities set out in Note 43
 34 LEPHw – Light Extractable Petroleum Hydrocarbons in water, is the sum of extractable petroleum hydrocarbons with a carbon range from 10 to 19 obtained by the approved methods minus the sum of naphthalene and phenanthrene, where approved methods are specified by a director's protocol
 35 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
 (a) item B1,
 (b) item C1, C3 or C4,
 (c) item D2, D3, D5 or D6,
 (d) item E4, or
 (e) item H12
 36 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H9 or H18 but only if the site was used for that purpose or activity in conjunction with, or as a result of, the site also being used for at least one of the purposes or activities set out in Note 35

37 Standard varies with crop, soil drainage and Mo Cu ratio

Crop Type	Soil Drainage	Cu Mo Ratio in Irrigation Water	Molybdenum irrigation watering standard (µg/L)
Forage	Poorly drained	<2:1	10
Forage	Poorly drained	>2:1	20
Forage	Well drained	N/A	20
Non-Forage	N/A	N/A	30
Crop type, soil drainage, and/or Cu Mo ratio in irrigation water is unknown			10

38 Standard is specific for total haloacetic acids. Sum of the concentrations of monochloroacetic acid (MCA), dichloroacetic acid (DCA), trichloroacetic acid (TCA), monobromoacetic acid (MBA) and dibromoacetic acid (DBA) must not exceed the standard specified

39 The presence of nonaqueous phase liquids is determined in accordance with a director's protocol

40 Nonylphenol includes related nonylphenolic and octylphenolic compounds, including ethoxylates

41 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as

(a) item A6, A8, A10 or A12,

(b) item H9, H16 or H17, or

(c) item I2 or I3

42 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as

(a) item A4,

(b) item C3,

(c) item E10, or

(d) item G1

43 Standard is for salinity measurements by electrical conductivity or density methods using the Practical Salinity Scale, which closely equates to concentration units of parts per thousand (g/kg or g/L). Salinity measurements using the Practical Salinity Scale may be denoted as practical salinity units (psu)

44 Standard for continuous application on crops

45 Standard for intermittent application on crops

46 Standard is applicable to the sum of concentrations of all tetrachlorophenol isomers

47 Standard is applicable to the sum of concentrations of all trichlorophenol isomers

48 VHw6-10 – Volatile Hydrocarbons (nC6-nC10) in water are hydrocarbons that elute between n-hexane and n-decane obtained by approved methods, where approved methods are specified by a director's protocol

49 VPHw – Volatile Petroleum Hydrocarbons in water includes the sum of volatile hydrocarbons with a carbon range from 6 to 10 (VHw6-10) obtained by approved methods minus the sum of benzene, ethylbenzene, styrene, toluene and xylenes, where approved methods are specified by a director's protocol

SCHEDULE 3.3

GENERIC NUMERICAL VAPOUR STANDARDS^{1,2}

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Agricultural, Urban Park, Residential Use Standard	Commercial Use Standard	Industrial Use Standard	Parkade Use Standard
acetaldehyde	75-07-0	4.5	15	40	35
acetone	67-64-1	2 000	5 500	35 000	15 000
acetone cyanohydrin	75-86-5	2	6	20	15
acetonitrile	75-05-8	60	200	550	500
acrolein	107-02-8	0.2	0.2	0.2	0.2
acrylonitrile	107-13-1	0.5	0.5	1.5	1
allyl chloride	107-05-1	1	3	9	8
ammonia (as N)	7664-41-7	100	300	900	800
benzene	71-43-2	1.5	4	10	10
benzotrichloride	98-07-7	1	1	1	1
benzyl chloride	100-44-7	0.2	0.6	2	1.5
bis(2-chloro-1-methylethyl) ether	108-60-1	80	250	1 500	650
bis(2-chloroethyl) ether	111-44-4	1	1	1	1
bis(2-chloromethyl) ether	542-88-1	1	1	1	1
bromobenzene	108-86-1	60	200	550	500
bromodichloromethane [BDCM]	75-27-4	40	100	800	300
bromoform	75-25-2	9	30	85	75
bromomethane	74-83-9	5	15	45	40
butadiene, 1,3-	106-99-0	2	2	3	2.5
carbon disulfide	75-15-0	700	2 000	6 500	5 500
carbon tetrachloride	56-23-5	1.5	5	15	15
chlorine (Cl ₂)	7782-50-5	20	20	20	20
chloro-1,1-difluoroethane, 1-	75-68-3	50 000	150 000	450 000	400 000
chlorobenzene	108-90-7	10	30	90	80
chlorobenzotrifluoride, 4-	98-56-6	15	40	100	100
chlorobutane, 1-	109-69-3	80	250	1 500	650
chlorodifluoromethane	75-45-6	50 000	150 000	450 000	400 000

SCHEDULE 3.3

GENERIC NUMERICAL VAPOUR STANDARDS^{1,2}

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Agricultural, Urban Park, Residential Use Standard	Commercial Use Standard	Industrial Use Standard	Parkade Use Standard
chloroethane	75-00-3	10,000	30,000	90,000	80,000
chloroform	67-66-3	100	300	900	800
chloromethane	74-87-3	90	250	800	700
chloronitrobenzene, 4-	100-00-5	1	2	5.5	5
chlorophenol, 2-	95-57-8	10	30	200	80
chloroprene	126-99-8	1	1	1	1
chloropropane, 2-	75-29-6	60	150	1,000	450
chlorotoluene, 2-	95-49-8	40	100	800	300
crotonaldehyde, trans-	123-73-9	2	6	40	15
cyanide	57-12-5	2	3.5	25	9.5
cyanogen	460-19-5	10	10	40	15
cyanogen bromide	506-68-3	200	550	3,500	1,500
cyanogen chloride	506-77-4	100	300	2,000	800
dibromo-3-chloropropane, 1,2-	96-12-8	1	1	2	1.5
dibromobenzene, 1,4-	106-37-6	20	60	400	150
dibromochloromethane [DBCM]	124-48-1	40	100	800	300
dibromoethane, 1,2-	106-93-4	0.5	0.5	0.5	0.5
dibromomethane	74-95-3	4	10	35	30
dichloro-2-butene, 1,4- (cis + trans)	764-41-0	1	1	1	1
dichlorobenzene, 1,2-	95-50-1	200	600	2,000	1,500
dichlorobenzene, 1,3-	541-73-1	60	200	1,000	500
dichlorobenzene, 1,4-	106-46-7	800	2,500	7,500	6,500
dichlorodifluoromethane	75-71-8	100	300	900	800
dichloroethane, 1,1-	75-34-3	500	1,500	4,500	4,000
dichloroethane, 1,2-	107-06-2	7	20	65	55
dichloroethylene, 1,1-	75-35-4	200	600	2,000	1,500
dichloroethylene, 1,2- cis	156-59-2	60	200	550	500

SCHEDULE 3.3

GENERIC NUMERICAL VAPOUR STANDARDS^{1,2}

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Agricultural, Urban Park, Residential Use Standard	Commercial Use Standard	Industrial Use Standard	Parkade Use Standard
dichloroethylene, 1,2- trans	156-60-5	60	200	550	500
dichloromethane	75-09-2	600	2 000	5 500	5 000
dichloropropane, 1,2-	78-87-5	4	10	35	30
dichloropropane, 1,3-	142-28-9	1	3	20	8
dichloropropene, 1,3- (cis + trans)	542-75-6	2.5	7.5	25	20
dicyclopentadiene	77-73-6	1	1	2.5	2.5
diethyl ether	60-29-7	400	1 000	8 000	3 000
dimethylamine	124-40-3	1	1	1	1
dimethylamine, N,N- [DMA]	121-69-7	4	10	80	30
epichlorohydrin	106-89-8	1	3	9	8
epoxybutane, 1,2-	106-88-7	20	60	200	150
ethyl acetate	141-78-6	70	200	650	550
ethyl acrylate	140-88-5	8	25	75	65
ethyl methacrylate	97-63-2	300	900	2 500	2 500
ethylbenzene	100-41-4	1 000	3 000	9 000	8 000
ethylene oxide	75-21-8	10	10	10	10
furan	110-00-9	2	6	40	15
hexachlorobutadiene	87-68-3	1	1.5	4	3.5
hexachlorocyclopentadiene	77-47-4	1	1	2	1.5
hexachloroethane	67-72-1	30	90	250	250
isopropylbenzene	98-82-8	400	1 000	3 500	3 000
methacrylonitrile	126-98-7	30	90	250	250
methyl acetate	79-20-9	2 000	6 000	40 000	15 000
methyl acrylate	96-33-3	20	60	200	150
methyl ethyl ketone [MEK]	78-93-3	5 000	15 000	45 000	40 000
methyl isobutyl ketone [MIBK]	108-10-1	3 000	9 000	25 000	25 000
methyl mercaptan	74-93-1	2	3.5	20	9

SCHEDULE 3.3

GENERIC NUMERICAL VAPOUR STANDARDS^{1,2}

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Agricultural, Urban Park, Residential Use Standard	Commercial Use Standard	Industrial Use Standard	Parkade Use Standard
methyl methacrylate	80-62-6	700	2 000	6 500	5 500
methyl tert-butyl ether [MTBE]	1634-04-4	3 000	9 000	25 000	25 000
methylcyclohexane	108-87-2	1 500	5 000	35 000	15 000
methylstyrene, alpha-	98-83-9	150	400	2 500	1 000
naphthalene	91-20-3	3	9	25	25
n-decane	124-18-5	2 500	8 000	25 000	20 000
n-hexane	110-54-3	700	2 000	6 500	5 500
nitrobenzene	98-95-3	1	1	2.5	2
nitrotoluene, 2-	88-72-2	2	5.5	35	15
phosphine	7803-51-2	10	10	10	10
propylene oxide	75-56-9	2.5	8	25	20
pyridine	110-86-1	100	350	1 000	950
styrene	100-42-5	1 000	3 000	9 000	8 000
tetrachloroethane, 1,1,1,2-	630-20-6	1.5	4	10	10
tetrachloroethane, 1,1,2,2-	79-34-5	40	100	800	300
tetrachloroethylene	127-18-4	40	100	350	300
tetrahydrofuran	109-99-9	3.5	10	30	25
toluene	108-88-3	5 000	15 000	45 000	40 000
trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	30 000	90 000	250 000	250 000
trichlorobenzene, 1,2,4-	120-82-1	7	20	65	55
trichloroethane, 1,1,1-	71-55-6	5 000	15 000	45 000	40 000
trichloroethane, 1,1,2-	79-00-5	0.5	0.6	2	1.5
trichloroethylene	79-01-6	2	6	20	15
trichlorofluoromethane	75-69-4	700	2 000	6 500	5 500
trichloropropane, 1,1,2-	598-77-6	10	30	200	80
trichloropropane, 1,2,3-	96-18-4	0.5	0.9	2.5	2.5
trichloropropene, 1,2,3-	96-19-5	0.5	0.9	2.5	2.5

SCHEDULE 3.3

GENERIC NUMERICAL VAPOUR STANDARDS^{1,2}

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Agricultural, Urban Park, Residential Use Standard	Commercial Use Standard	Industrial Use Standard	Parkade Use Standard
triethylamine	121-44-8	7	20	65	55
trimethylbenzene, 1,2,4-	95-63-6	7	20	65	55
trimethylbenzene, 1,3,5-	108-67-8	3.5	10	65	2.5
vinyl acetate	108-05-4	200	600	2 000	1 500
vinyl bromide	593-60-2	1	1	3	2.5
vinyl chloride	75-01-4	1	3.5	10	9
VPH ³	NA ⁴	1 000	3 000	11 500	8 000
xylenes, total ⁵	1330-20-7	100	300	900	800

Notes

- 1 All values in µg/m³ unless otherwise stated.
- 2 Vapour standards applied to soil vapour may be adjusted for depth dependent attenuation as specified in a director's protocol.
- 3 VPH_v – Volatile Petroleum Hydrocarbons in vapour includes the sum of those compounds with a carbon range from 6 to 13 obtained by approved methods minus the sum of benzene, ethylbenzene, n-decane, n-hexane, styrene, toluene and xylenes, where approved methods are specified by a director's protocol.
- 4 NA – not applicable. No CAS number exists for the substance.
- 5 Standard for the substance applies to the sum of vapour concentrations of ortho, meta and para isomers.

SCHEDULE 3.4

GENERIC NUMERICAL SEDIMENT STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Freshwater Sediment² Standard for Sensitive Use	Freshwater Sediment² Standard for Typical Use	Marine and Estuarine Sediment³ Standard for Sensitive Use	Marine and Estuarine Sediment³ Standard for Typical Use
acenaphthene	83-32-9	0.055	0.11	0.055	0.11
acenaphthylene	208-96-8	0.08	0.15	0.079	0.15
anthracene	120-12-7	0.15	0.29	0.15	0.29
arsenic	7440-38-2	11.0	20.0	26.0	50.0
benz(a)anthracene	56-55-3	0.24	0.46	0.43	0.83
benzo(a)pyrene	50-32-8	0.48	0.94	0.47	0.92
cadmium	7440-43-9	2.2	4.2	2.6	5.0
chlordan (cis + trans)	5103-71-9 & 5103-74-2	0.0055	0.011	0.003	0.0057
chromium	7440-47-3	56.0	110.0	99.0	190.0
chrysene	218-01-9	0.53	1.0	0.52	1.0
copper	7440-50-8	120.0	240.0	67.0	130.0
di-benz(a,h)anthracene	53-70-3	0.084	0.16	0.084	0.16
dichlorodiphenyldichloroethane (2,4' + 4,4' isomers) [DDE]	53-19-0 & 72-54-8	0.0053	0.01	0.0048	0.0094
dichlorodiphenyldichloroethylene (2,4' + 4,4' isomers) [DDE]	3424-82-6 & 72-55-9	0.0042	0.0081	0.23	0.45
dichlorodiphenyltrichloroethane (2,4' + 4,4' isomers) [DDT]	789-02-6 & 50-29-3	0.003	0.0057	0.003	0.0057
dieldrin	60-57-1	0.0041	0.008	0.0027	0.0052
endrin	72-20-8	0.039	0.075	0.039	0.075
fluoranthene	206-44-0	1.5	2.8	0.93	1.8
fluorene	86-73-7	0.089	0.17	0.089	0.17
heptachlor and heptachlor epoxide	76-44-8 & 1024-57-3	0.0017	0.0033	0.0017	0.0033
hexachlorocyclohexane, gamma	58-89-9	0.00086	0.0017	0.00061	0.0012
lead	7439-92-1	57.0	110.0	69.0	130.0
mercury	7439-97-6	0.3	0.58	0.43	0.84
methylnaphthalene, 2-	91-57-6	0.12	0.24	0.12	0.24
naphthalene	91-20-3	0.24	0.47	0.24	0.47

SCHEDULE 3.4

GENERIC NUMERICAL SEDIMENT STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Freshwater Sediment ² Standard for Sensitive Use	Freshwater Sediment ² Standard for Typical Use	Marine and Estuarine Sediment ³ Standard for Sensitive Use	Marine and Estuarine Sediment ³ Standard for Typical Use
polychlorinated biphenyls, total ⁶ [PCBs]	1336-36-3	0.17	0.33	0.12	0.23
polychlorinated dioxins and furans, total ⁷ [PCDDs and PCDFs, total]	1746-01-6	0.00013	0.00026	0.00013	0.00026
polycyclic aromatic hydrocarbons, total ⁴ [PAHs]	NA ⁵	10.0	20.0	10.0	20.0
pyrene	129-00-0	0.54	1.1	0.87	1.7
zinc	7440-66-6	200.0	380.0	170.0	330.0

Notes

- 1 All values in µg/g dry weight (dwt) unless otherwise stated.
- 2 Standards are specific to the protection of freshwater life.
- 3 Standards are specific to the protection of marine and estuarine aquatic life.
- 4 PAHs, total in sediment includes:
 acenaphthene,
 acenaphthylene,
 anthracene,
 benz(a)anthracene,
 benzo(a)pyrene,
 chrysene,
 dibenz(a,h)anthracene,
 fluoranthene,
 fluorene,
 methyl/naphthalene, 2-naphthalene,
 phenanthrene, and
 pyrene.
- 5 NA – not applicable. No CAS number exists for the substance.
- 6 PCBs, total in sediment includes the sum of Arochlors 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262 and 1268.
- 7 Polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) expressed as 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) toxicity equivalent as specified in a director's protocol.

SCHEDULE 8

SOIL RELOCATION NOTIFICATION FORM

Is this soil relocation notification form an update to a previous soil relocation submission? *

- Yes
 No

Has the source site been used for any industrial or commercial uses described in [SCHEDULE 2](#) of the Contaminated Sites Regulation? *

- Yes
 No

If you answered NO to the question above, this form does not need to be submitted to the ministry. Soil deposition on receiving sites must adhere to other existing laws and bylaws.

If you answered YES to the question above, you must complete this form. All fields marked with an asterisk (*) are mandatory.

To be completed by a qualified professional on behalf of the person responsible for relocating soil.

Section A: Source Site Information

1. SOURCE SITE OWNER

First name *

Last name *

Company, if applicable

Mailing address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

Are there additional owners?

Additional owners

First name *

Last name *

Company, if applicable

Address *

City *

Province * Country * Postal code *

--	--	--

Phone number * Email *

--	--

Are there more than two owners? Include contact information as above.

--

First name, last name - address, city, province, postal code, contact phone and email

2. SOURCE SITE CONTACT

Same as above? *

- Yes
 No

Source site contact person (if not same as above)

First name * Last name *

--	--

Company, if applicable

--

Mailing address * City *

--	--

Province * Country * Postal code *

--	--	--

Phone number * Email *

--	--

3. SOURCE SITE LOCATION

Site identification number (site ID), if available

--

Include all related numbers, separated by commas.

Coordinates for the centre of the site:

Latitude

Degrees * Minutes * Seconds *

--	--	--

Longitude

Degrees * Minutes * Seconds *

--	--	--

Land ownership *

- Legally titled, registered property
- Untitled Crown land
- Untitled municipal land

For legally titled, registered property

Site street address (if applicable) *

Or nearest street name/intersection if no address is assigned.

City *

Postal code *

Source site regional district *

PID numbers and associated legal description

PID *

Legal land description *

Attention: *

Attach land title record of source site.

For untitled Crown land

PIN numbers and associated legal description

PIN *

Legal land description*

And if available:

Crown land file numbers

For untitled municipal land

Legal land description*

4. SOURCE SITE USE

Identify all of the industrial or commercial uses described in [SCHEDULE 2](#) which have occurred or are occurring on this site. If no Schedule 2 uses apply, indicate 'none'.

Example Schedule 2 references and descriptions

E1. appliance, equipment, or engine maintenance, repair, reconditioning, cleaning or salvage

F10. solvent manufacturing, bulk storage, shipping and handling

Schedule 2 reference and description *

Specify all that apply.

Is the source site classified as high risk? *

- Yes
 No

If the site is classified as high risk, the minimum volume exemption does not apply and a soil relocation notification form must be submitted for all soil relocation from the high risk site.

5. SOURCE SITE PROJECT DETAILS

Identify the purpose of the soil excavation and relocation. *

Current type of soil storage (e.g. stockpiled, in situ) *

Section B: Soil Description and Relocation Information

1. SOIL QUALITY AND CHARACTERIZATION

Volume of soil to be moved - identify soil quality

Soil volume to be relocated in cubic metres (m³) *

Soil quality *

- Industrial land use (IL)
- Commercial land use (CL)
- Residential land use high density (RL_{HD})
- Residential land use low density (RL_{LD})
- Urban park land use (PL)
- Agricultural land use (AL)
- Wildlands natural land use (WL_N)
- Wildlands reverted land use (WL_R)

Note: Soil and vapour test results records must be maintained and provided to the ministry upon request.

2. SOIL CHARACTERIZATION METHOD

Describe soil characterization method: *

Attention: *

Attach soil analytical data

3. VAPOUR CHARACTERIZATION METHOD

Exemptions : Does the exemption from analyzing vapour apply?

Yes or No *

- Yes
- No

If the exemption applies, please describe. *

If no, describe the vapour characterization method. *

Attention: *

Attach vapour analytical data

4. SOIL RELOCATION INFORMATION

Soil relocation estimated start date (month - day - year) *

Month * Day * Year *

--	--	--

Estimated completion date (month - day - year) *

Month * Day * Year *

--	--	--

Relocation method (e.g. truck, barge, train) *

--

Section C: Receiving Site Information

Receiving Site

1. RECEIVING SITE OWNER

First name *

--

Last name *

--

Company, if applicable

--

Mailing address *

--

City *

--

Province *

--

Country *

--

Postal code *

--

Phone number *

--

Email *

--

Are there additional owners?

Additional owners

First name *

--

Last name *

--

Company, if applicable

--

Address *

--

City *

--

Province *

--

Country *

--

Postal code *

--

Phone number *

--

Email *

--

Are there more than two owners? Include their contact information as described above:

First name, last name - address, city, province, postal code, contact phone and email.

2. RECEIVING SITE CONTACT

Same as above? *

- Yes
 No

Receiving site contact person (if not same as above)

First name *

Last name *

Company, if applicable

Mailing Address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

3. RECEIVING SITE LOCATION

Site identification number (site ID)

Include all related numbers separated by commas, if applicable

Coordinates for the centre of the site:

Latitude

Degrees *

Minutes *

Seconds *

Longitude

Degrees *

Minutes *

Seconds *

Receiving site regional district *

Attention: *

Attach site location map of appropriate scale showing the boundaries of the site and the location the soil will be deposited.

Land ownership *

- Legally titled, registered property
- Untitled Crown land
- Untitled municipal land

For legally titled, registered property

Site street address (if applicable) *

Or nearest street name/intersection if no address is assigned.

City *

Postal Code *

PID numbers and associated legal description

PID *

Legal land description*

Attention: *

Attach receiving site land title record.

For untitled Crown land

PIN numbers and associated legal description

PIN *

Legal land description*

And if available: Crown land file numbers

For untitled municipal land

Legal land description*

4. RECEIVING SITE PRIMARY LAND USE

Applicable primary land use, consider current and future use as per CSR Section 12. Please check below.

Receiving site land use*

- Industrial land use (IL)
- Commercial land use (CL)
- Residential land use high density (RL_{HD})
- Residential land use low density (RL_{LD})
- Urban park land use (PL)
- Agricultural land use (AL)
- Wildlands natural land use (WL_N)
- Wildlands reverted land use (WL_R)

Applicable site-specific factors for CSR Schedule 3.1*

Relocated soil use at the receiving site (e.g. fill, cover, berms)*

Receiving site is a high volume site (more than 20,000 cubic metres deposited on the site in a lifetime).

Soil deposit is in the Agricultural Land Reserve (ALR).

Contact the Agricultural Land Commission (ALC) in regard to submitting a Notice of Intent or a Soil and Fill Use application for the soil deposit in the ALR. The ALC can be contacted at 236-468-3343 or ALC.Soil@gov.bc.ca for soil enquiries.

Soil deposit is on Reserve lands.

Inform Indigenous Services Canada via email to aadnc.bccontaminatedsites.aandc@canada.ca

Additional Receiving Sites

First additional receiving site information

FIRST ADDITIONAL RECEIVING SITE

1. RECEIVING SITE OWNER

First name *

Last name *

Company, if applicable

Mailing address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

Are there additional owners?

Additional owners

First name *

Last name *

Company, if applicable

Address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

Have more than two owners? Include their contact information as above:

First name, last name - address, city, province, postal code, contact phone and email.

2. RECEIVING SITE CONTACT

Same as above? *

Yes

No

First additional receiving site contact person (if not same as above)

First name *

Last name *

Company, if applicable

Mailing address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

3. FIRST ADDITIONAL RECEIVING SITE LOCATION

Site identification number (site ID)

Include all related numbers separated by commas, if applicable.

Coordinates for the centre of the site:

Latitude

Degrees *

Minutes *

Seconds *

Longitude

Degrees *

Minutes *

Seconds *

First additional receiving site regional district *

Attention: *

Attach site location map of appropriate scale showing the boundaries of the site and the location the soil will be deposited on the first additional receiving site.

Land ownership *

- Legally titled, registered property
- Untitled Crown land
- Untitled municipal land

For legally titled, registered property

Site street address (if applicable) *

Or nearest street name/intersection if no address is assigned.

City *

Postal code *

PID numbers and associated legal description

PID *

Legal land description*

Attention: *

Attach land title record for the first additional receiving site.

For untitled Crown land

PIN numbers and associated legal description

PIN *

Legal land description*

And if available:

Crown land file numbers

For untitled municipal land

Legal land description*

4. FIRST ADDITIONAL RECEIVING SITE PRIMARY LAND USE

Applicable primary land use, consider current and future use as per CSR Section 12. Please check below.

Receiving site land use*

- Industrial land use (IL)
- Commercial land use (CL)
- Residential land use high density (RL_{HD})
- Residential land use low density (RL_{LD})
- Urban park land use (PL)
- Agricultural land use (AL)
- Wildlands natural land use (WL_N)
- Wildlands reverted land use (WL_R)

Applicable site-specific factors for CSR Schedule 3.1*

Relocated soil use at the receiving site (e.g. fill, cover, berms)*

- Receiving site is a high volume site (more than 20,000 cubic metres deposited on the site in a lifetime).
- Soil deposit is in the Agricultural Land Reserve (ALR).

Contact the Agricultural Land Commission (ALC) in regard to submitting a Notice of Intent or a Soil and Fill Use application for the soil deposit in the ALR. The ALC can be contacted at 236-468-3343 or ALC.Soil@gov.bc.ca for soil enquiries.

- Soil deposit is on Reserve lands.

Inform Indigenous Services Canada via email to aadnc.bccontaminatedsites.aandc@canada.ca

Second additional receiving site

Second additional receiving site information

SECOND ADDITIONAL RECEIVING SITE

1. RECEIVING SITE OWNER

First name *

Last name *

Company, if applicable

Mailing address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

Are there additional owners?

Second additional receiving site additional owners

First name *

Last name *

Company, if applicable

Address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

Are there more than two owners? Include their contact information as above:

First name, last name - address, city, province, postal code, contact phone and email

2. RECEIVING SITE CONTACT

Same as above? *

- Yes
 No

Second additional receiving site contact person (if not same as above)

First name *

Last name *

Company, if applicable

Mailing address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

3. SECOND ADDITIONAL RECEIVING SITE LOCATION

Site identification number (site ID)

Include all related numbers separated by commas, if applicable.

Coordinates for the centre of the site:

Latitude

Degrees *

Minutes *

Seconds *

Longitude

Degrees *

Minutes *

Seconds *

Second additional receiving site regional district *

Attention: *

Attach site location map of appropriate scale showing the boundaries of the site and the location the soil will be deposited on the second additional receiving site.

Land ownership *

- Legally titled, registered property
- Untitled Crown land
- Untitled municipal land

For Legally titled, registered property

Site street address (if applicable) *

Or nearest street name/intersection if no address is assigned.

City *

Postal code *

PID numbers and associated legal description

PID *

Legal land description*

Attention: *

Attach land title record for the second additional receiving site.

For untitled Crown land

PIN numbers and associated legal description

PIN *

Legal land description*

And if available:

Crown land file numbers

For untitled municipal land

Legal land description *

4. SECOND ADDITIONAL RECEIVING SITE PRIMARY LAND USE

Applicable primary land use, consider current and future use as per CSR Section 12. Please check below.

Receiving site land use *

- Industrial land use (IL)
- Commercial land use (CL)
- Residential land use High Density (RL_{HD})
- Residential land use Low Density (RL_{LD})
- Urban park land use (PL)
- Agricultural land use (AL)
- Wildlands natural land use (WL_N)
- Wildlands reverted land use (WL_R)

Applicable site-specific factors for CSR Schedule 3.1 *

Relocated soil use at the receiving site (e.g. fill, cover, berms) *

- Receiving site is a high volume site (more than 20,000 cubic metres deposited on the site in a lifetime).
- Soil deposit is in the Agricultural Land Reserve (ALR).

Contact the Agricultural Land Commission (ALC) in regard to submitting a Notice of Intent or a Soil and Fill Use application for the soil deposit in the ALR. The ALC can be contacted at 236-468-3343 or ALC.Soil@gov.bc.ca for soil enquiries.

- Soil deposit is on Reserve lands.

Inform Indigenous Services Canada via email to aadnc.bccontaminatedsites.aandc@canada.ca

Section D: Qualified Professional Information and Certification

1. QUALIFIED PROFESSIONAL CONTACT INFORMATION

First name *

Last name *

Type of qualified professional

Professional license/registration (e.g., P. Eng, RPBio) *

Organization

Street address *

City *

Province *

Country *

Postal code *

Phone number *

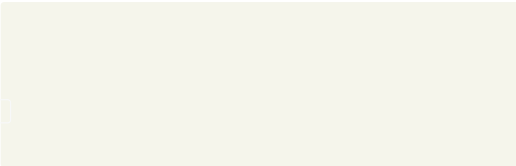
Email *

2. QUALIFIED PROFESSIONAL DECLARATION

I, the undersigned, confirm the following:

- I am a qualified professional and I have demonstrable experience in conducting investigations of the type reviewed above.
- I have no financial or other interest in the outcome of this project other than the standard fee I will receive for my professional services.
- The information in this form is true, complete and accurate to the best of my knowledge.
- The soil is not waste soil.
- The characterization and classification of soil to be relocated has been completed in accordance with applicable protocols and regulations under the *Environmental Management Act*, and in undertaking such work I have considered all applicable guidance and standard professional practice.
- If applicable, that the receiving site meets the requirements for a high volume site as set out in the Contaminated Sites Regulation.

SIGNATURE *



Sign above

First and last name *

Date signed *

SCHEDULE 8.1
HIGH VOLUME SOIL RECEIVING SITE
REGISTRATION FORM

All fields marked with a red asterisk (*) are mandatory.

Section 1 - RECEIVING SITE OWNER AND/OR OPERATOR

First name * Last name *

Organization, if applicable

Street address * City *

Province * Country * Postal code *

Phone number * Email *

Are there additional owners or operators?

Additional owners and operators

First name * Last name *

Company, if applicable

Address * City *

Province * Country * Postal code *

Phone number * Email *

Are there more than two owners? Include their information below:

First name, last name - address, city, province, postal code - contact phone and email

Section 2 - RECEIVING SITE CONTACT PERSON

- same as above
- different than above

Receiving site contact person

First name *

Last name *

Organization, if applicable

Street address *

City *

Province *

Country *

Postal code *

Phone number *

Email *

Section 3 - RECEIVING SITE LOCATION

Site ID, if available

Include all related numbers, separated by commas.

Coordinates for the centre of the site:

Latitude

Degrees *

Minutes *

Seconds *

Longitude

Degrees *

Minutes *

Seconds *

Receiving site regional district *

Attention:

An attachment of a map with appropriate scale showing the location and boundaries of the site is required for submission. *

Land ownership *

- Legally titled, registered property
- Untitled Crown land
- Untitled municipal land

For legally titled, registered property

Site address *

Or nearest street name/intersection if no address is assigned

City *

Postal code *

PID and legal land description

PID *

Legal land description

Attention:

Attach land title record. *

For untitled Crown land

PIN *

Legal land description

And if available:

Crown land file numbers

For untitled municipal land

Legal land description

SECTION 4 - RECEIVING SITE USE

Receiving site primary land use:

Select one of: *

- Industrial land use (IL)
- Commercial land use (CL)
- Residential land use high density (RL_{HD})
- Residential land use low density (RL_{LD})
- Urban park land use (PL)
- Agricultural land use (AL)
- Wildlands natural land use (WL_N)
- Wildlands reverted land use (WL_R)

High volume site confirmation:

- Receiving site is a high volume site (more than 20,000 cubic metres of commercial and/or industrial quality soil deposited on the site in a lifetime) *

Date site became high volume *



Describe how the relocated soil will be used at the receiving site (e.g. fill, cover) *

- Soil deposit is in the Agricultural Land Reserve (ALR).

Contact the Agricultural Land Commission (ALC) in regard to submitting a Notice of Intent or a Soil and Fill Use application for the soil deposit in the ALR. The ALC can be contacted at 236-468-3343 or ALC.Soil@gov.bc.ca for soil enquiries.

- Soil deposit is on Reserve Lands

Inform Indigenous Services Canada via email to aadnc.bccontaminatedsites.aandc@canada.ca

Section 5 - QUALIFIED PROFESSIONAL CONTACT INFORMATION

First name *	Last name *	Type of qualified professional
<input type="text"/>	<input type="text"/>	<input type="text"/>
Organization	Professional license/registration (e.g., P. Eng, RPBio) *	
<input type="text"/>	<input type="text"/>	
Street address *	City *	
<input type="text"/>	<input type="text"/>	
Province *	Country *	Postal code *
<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone number *	Email *	
<input type="text"/>	<input type="text"/>	

Section 6 - QUALIFIED PROFESSIONAL DECLARATION

I, the undersigned, confirm the following:

- I am a qualified professional and I have demonstrable experience in conducting soil management of the type reviewed above.
- I have no financial or other interest in the outcome of this project other than the standard fee I will receive for my professional services.
- The above information and all attached information is true, complete and accurate, based on my current knowledge as of the date completed.
- The site meets all requirements for a high volume receiving site set out in the Contaminated Sites Regulation including the requirement for an approved professional to review and approve the soil management plan.

SIGNATURE *



Sign above

First and last name *

Date signed *

