

Contaminated Sites Regulation

APPLICATION FOR A LAND TREATMENT FACILITY PERMIT

- Applicants should ensure that they:
 - are familiar with the *Contaminated Sites Regulation* (Environment Act).
 - complete all applicable sections, legibly printing or typing all information.
 - initial each completed page in the space provided.
 - complete the signature block at the end of the form.
 - submit all required attachments, including the permit fee.
- A **fee of \$100** is payable to the **Government of Yukon** on submission of this application. There is no fee for the renewal or amendment of an active permit.
- A pre-permit inspection may be conducted prior to the issuance of any permit.
- Additional information may be required upon receipt of this application.

The original completed and signed application form should be mailed or delivered to your local government office or:

Environment Programs Branch (V-8)
 Department of Environment
 Government of Yukon (located at 10 Burns Road, Whitehorse)
 Box 2703
 Whitehorse, Yukon Y1A 2C6

For additional information:
 Phone: (867) 667-5683 or 1-800-661-0408 ext. 5683 Fax: (867) 393-6213
 Web: <http://environmentyukon.gov.yk.ca/monitoringenvironment/regulations.php>
 Email: envprot@gov.yk.ca

Please note that a Land Treatment Facility (either Single Use or Commercial/Multiple Use) may not be located on a site that:

- Has a slope greater than 6%;
- Has a seasonal high water table of less than 3 metres below the surface;
- Is within 100 metres of a surface water body;
- Is on land identified as being within a 25 year floodplain;
- Is within 60 metres of a residence or residential property boundary.

PLEASE READ CAREFULLY AND FILL OUT ALL APPLICABLE SECTIONS

❖ PART 1 – CONTACT AND SITE INFORMATION

All applicants must complete this part.

1. Name and address of applicant:

The applicant is the person filling out this application, and whose name is to appear on the permit.

Contact name and position title	Phone #
Business name or government agency/branch/department	Fax #
Mailing Address	Postal Code
Email Address	
Name (person or business) to appear on permit	

2. Who will be directly responsible for operating the Land Treatment Facility?

same as (1) above, or: *(For multiple site locations, list on a separate sheet).*

Contact name and position title	Phone #
Business name or government agency/branch/department	Fax #
Mailing Address	Postal Code
Email Address	

3. Where will the Land Treatment Facility be located?

(For multiple site locations, list on a separate sheet).

Street Address _____

Legal Address _____

4. Who owns the land on which the Land Treatment Facility will be located?

same as (1) above, or: *(For multiple site locations, list on a separate sheet).*

*Applicants not owning the land on which the facility is to be located **must include** with this application a letter from the landowner authorizing the intended activity on their property.*

5. Is the land leased? If so, by whom?

❖ PART 2 – SINGLE-USE LAND TREATMENT FACILITIES

- *A Single-Use Facility is one that will contain contaminated material from one site only.*
- *All applicants planning to construct or operate a Single-Use Facility must complete this part.*
- *If the Facility will contain contaminated material from more than one site, skip this Part and proceed to Part 3 below.*

6. What are the contaminants to be remediated? (e.g. petroleum hydrocarbons, pentachlorophenol, etc.)

7. Will any of the contaminated material treated at the facility be special waste? Yes No

If yes, please elaborate (attach additional pages if needed):

8. What volume of soil is the Facility designed to store and treat? (in cubic metres) _____

9. What are the proposed dimensions of the facility, measuring along the inside edge of the berms, and to what height will the soil be piled? [This information is to be used for determining whether the Yukon Environmental and Socioeconomic Assessment Act applies to the facility]

Dimensions: _____ Max pile height: _____

10. Is the site cleared? Yes No

11. Is the site used by wildlife on a regular basis? Yes No

12. How far is the site from the nearest surface water body (creek, pond, etc.)? m

13. Is the site located on a floodplain? Yes No

If “Yes”, is the site within the:

25-yr floodplain 50-yr floodplain 100-yr floodplain

14. What is the depth of the seasonal high water table? (in metres below the surface) m

15. What is the slope of the site? percent or degrees

16. What is the distance to the nearest residential property? m

PLEASE NOTE that an impermeable liner (geomembrane) will be required for all sites where the permeability of the native soil is greater than 10^{-5} cm/sec, or the thickness of this layer of native soil is less than one (1) metre.

17. Will an impermeable liner be used beneath the contaminated soil? Yes No

If “No”, then go to 18 below.

If “Yes”, then go to 19 below.

18. Provide (as an attachment) information demonstrating that the permeability of the native soil on which the contaminated soil is to be placed is less than 10^{-5} cm/sec, and that the thickness of this layer of native soil is greater than one (1) metre.

Skip question 19 and proceed to question 20.

19. Describe the type of impermeable liner to be installed, including the thickness, permeability, and installation methods (provide attachments if necessary).

20. Describe clean-up plans which will be used in the event of a spill or leak of contaminated material, including a list of any equipment to be used.

21. Provide a clear, well marked diagram showing the location of the Facility, and structures on the site (including those to be built), as well as the location of features such as the nearest residential property, adjacent properties (and their uses), surface waterbodies, etc.

22. Describe the training workers at the Facility will have in handling contaminated material, spill prevention, emergency procedures, and health and safety.

23. Describe the operating and maintenance plans and schedules to be used to treat contaminated soil at your Facility. [tillage or turning schedule, equipment to be used, watering and/or nutrient addition schedule.]

24. Describe the methods to be used to determine that contaminated soil is sufficiently treated to be removed from the Facility.

25. Describe the features of the site designed to control access and secure the Facility (e.g. fencing, signage).

26. Briefly describe plans for decommissioning and abandoning the site, including the location to which the remediated soil will be removed, if applicable.

❖ **PART 3 – COMMERCIAL OR MULTI-USE LAND TREATMENT FACILITIES**

- *A multi-use Facility is one that will accept contaminated material from more than one site.*
- *A commercial Facility is one that will accept contaminated material not generated by the permittee's own activities.*
- *All applicants planning to construct or operate a commercial or multi-use Facility must complete this Part.*

27. **Please provide (as an attachment) a Land Treatment Facility Plan that complies with Sections 18(1) and 18(2) of the *Contaminated Sites Regulation*.**

(a) Please provide, as part of the Land Treatment Facility Plan, either:

- (i) Information demonstrating that the permeability of the native soil on which the contaminated soil is to be placed is less than 10^{-5} cm/sec, and that the thickness of this layer of native soil is greater than one (1) metre; **or**
- (ii) A description of the impermeable liner to be used, including provisions for proper installation of the liner.

(b) Please provide, as part of the Land Treatment Facility Plan:

- (i) A statement of the design capacity of the Facility – that is, the amount of soil that the facility is designed to store and treat; **and**
- (ii) A description of the proposed dimensions of the Facility, measuring along the inside edge of the berms.

❖ **PART 4 – GROUNDWATER MONITORING AND ASSESSMENT**

- *Facilities that will be accepting special waste or that have a capacity of 3,000 m³ or greater are required to undergo a hydrogeological assessment.*
- *Based on the results of a hydrogeological assessment, groundwater monitoring may be required.*
- *All applicants planning to construct or operate a Facility that will accept special waste or that will have a capacity of 3,000 m³ or greater must complete this Part.*

28. **Please provide (as an attachment) the report of a hydrogeological assessment of the proposed site location, conducted by a qualified hydrogeologist, which:**

- (a) determines the direction and rate of groundwater flow;
- (b) identifies potential receiving environment(s);
- (c) assesses travel times for potential contaminant pathways, and
- (d) is based on data from a minimum of two wells upgradient of the facility and two wells downgradient of the facility, at locations chosen by the qualified hydrogeologist, and which are installed in such a way as to allow their use for monitoring of groundwater for contamination.

I, _____ [print name clearly], am the authorized representative of _____ [business/person responsible for soil], and I certify that the information provided on this application form is correct and complete to the best of my knowledge.

Signature of applicant

Date

Number of attachments: _____

This information is being collected under the authority of section 17 of the *Contaminated Sites Regulation*. For further information contact the Environmental Programs Branch at (867) 667-5683 or toll free at 1-800-661-0408 extension 5683.