

**7001.0610 PART B INFORMATION REQUIREMENTS FOR LAND TREATMENT.**

Except as otherwise provided by part 7045.0536, subpart 1, if the applicant proposes to use land treatment to dispose of hazardous waste, the applicant shall furnish the information designated in items A to I in addition to the information required by part 7001.0560:

A. A description of plans to conduct a treatment demonstration as required under part 7045.0536, subpart 3. The description must include the following information:

- (1) the wastes for which the demonstration will be made and the potential hazardous constituents in the wastes;
- (2) the data sources to be used to make the demonstration, such as literature, laboratory data, field data, or operating data;
- (3) any specific laboratory or field test that will be conducted, including the type of test such as column leaching or degradation; materials and methods, including analytical procedures; expected time for completion; and characteristics of the unit that will be simulated in the demonstration, including treatment zone characteristics, dimensions, climatic conditions, and operating practices; and
- (4) statistical methods for interpreting results.

B. A description of a land treatment program as required under part 7045.0536, subpart 2. This information must be submitted with the plans for the treatment demonstration, and updated following the treatment demonstration. The land treatment program must address the following items:

- (1) the wastes to be land treated;
- (2) design measures and operating practices necessary to maximize treatment in accordance with part 7045.0536, subpart 4, item A, including waste application method and rate, measures to control soil pH, enhancement of microbial or chemical reactions, and control of moisture content;
- (3) provisions for unsaturated zone monitoring, including:
  - (a) sampling equipment, procedures, and frequency;
  - (b) procedures for selecting sampling locations;
  - (c) analytical procedures;
  - (d) chain of custody control;
  - (e) procedures for establishing background values;
  - (f) statistical methods for interpreting results; and

(g) the justification for any hazardous constituents recommended for selection as principal hazardous constituents, in accordance with the criteria for this selection in part 7045.0536, subpart 6, item A;

(4) a list of hazardous constituents and their concentrations that are reasonably expected to be in, or derived from, the wastes to be land treated based on waste analysis performed pursuant to part 7045.0458; and

(5) the proposed dimensions of the treatment zone.

C. A description of how the unit is or will be designed, constructed, operated, and maintained in order to meet the requirements of part 7045.0536, subpart 4. This submission must address the following items:

(1) control of run-on;

(2) collection and control of run-off;

(3) minimization of run-off of hazardous constituents from the treatment zone;

(4) management of collection and holding facilities associated with run-on and run-off control systems;

(5) treatment and disposal of run-off collected in the run-off control system;

(6) control of wind dispersal; and

(7) periodic inspection of the unit. This information must be included in the inspection plan submitted under part 7001.0560, item E.

D. If food chain crops might be grown in or on the treatment zone of the land treatment unit, a description of how the demonstrations required under part 7045.0536, subpart 5, will be conducted including:

(1) characteristics of the food chain crop for which the demonstrations will be made;

(2) characteristics of the waste, treatment zone, and waste application method and rate to be used in the demonstrations;

(3) procedures for crop growth, sample collection, sample analysis, and data evaluation;

(4) characteristics of the comparison crop including the location and conditions under which it was or will be grown;

(5) description of the soil core and soil pore liquid sampling and analysis procedures; and

(6) statistical methods for interpreting results.

E. If food chain crops are to be grown after closure, a description of compliance with the requirements of part 7045.0536, subpart 5.

F. A description of the vegetative cover to be applied to closed portions of the facility, and a plan for maintaining this cover during the post closure care period as required under part 7045.0536, subpart 8, items A, subitem (8), and C, subitem (2). This information must be included in the closure plan and, where applicable, in the post closure care plan submitted under part 7001.0560, item L.

G. If ignitable or reactive wastes will be placed in or on the treatment zone, an explanation of compliance with the requirements of part 7045.0536, subpart 9.

H. If incompatible wastes or incompatible wastes and materials will be placed in or on the same treatment zone, an explanation of compliance with part 7045.0536, subpart 10.

I. A waste management plan for hazardous waste F028 and treatment residues and soils contaminated with hazardous wastes F020, F021, F022, F023, F026, F027, and F028 listed under part 7045.0135, subpart 1a, item B, describing how a land treatment facility is or will be designed, constructed, operated, and maintained to meet the requirements of part 7045.0536, subpart 11. This plan must address the following items as specified in part 7045.0536, subpart 11:

(1) the volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;

(2) the attenuative properties of underlying and surrounding soils or other materials;

(3) the mobilizing properties of other materials codisposed with these wastes; and

(4) the effectiveness of additional treatment, design, or monitoring techniques.

**Statutory Authority:** *MS s 116.07*

**History:** *8 SR 2276; 10 SR 1212; 33 SR 2042*

**Published Electronically:** *July 13, 2009*