Ohio Administrative Code

Rule 3745-67-80 Closure and post-closure.

Effective: September 5, 2010

(A) In the closure plan under rule 3745-66-12 of the Administrative Code, and the post-closure plan under rule 3745-66-18 of the Administrative Code, the owner or operator must address the following objectives and indicate how they will be achieved:

(1) Control of the migration of hazardous waste and hazardous waste constituents from the treated area into the ground water;

(2) Control of the release of contaminated run-off from the facility into surface water;

(3) Control of the release of airborne particulate contaminants caused by wind erosion; and

(4) Compliance with rule 3745-67-76 of the Administrative Code concerning the growth of food chain crops.

(B) The owner or operator must consider, at a minimum, the following factors in addressing the closure and post-closure care objectives of paragraph (A) of this rule:

(1) Type and amount of hazardous waste and hazardous waste constituents applied to the land treatment facility;

(2) The mobility and the expected rate of migration of the hazardous waste and hazardous waste constituents;

(3) Site location, topography, and surrounding land use, with respect to the potential effects of pollutant migration (e.g., proximity to ground water, surface water and drinking water sources);

(4) Climate, including amount, frequency, and pH of precipitation;

(5) Geological and soil profiles and surface and subsurface hydrology of the site, and soil characteristics, including cation exchange capacity, total organic carbon, and pH;

(6) Unsaturated zone monitoring information obtained under rule 3745-67-78 of the Administrative Code; and

(7) Type, concentration, and depth of migration of hazardous waste constituents in the soil as compared to their background concentrations.

(C) The owner or operator must consider, at a minimum, the following methods in addressing the closure and post-closure care objectives of paragraph (A) of this rule:

(1) Removal of contaminated soils;

(2) Placement of a final cover, considering:

(a) Functions of the cover (e.g., infiltration control, erosion and run-off control, and wind erosion control), and

(b) Characteristics of the cover, including material, final surface contours, thickness, porosity and permeability, slope, length of run of slope, and type of vegetation on the cover; and

(3) Monitoring of ground water.

(D) In addition to the requirements of rules 3745-66-10 to 3745-66-21 of the Administrative Code, during the closure period the owner or operator of a land treatment facility must:

(1) Continue unsaturated zone monitoring in a manner and frequency specified in the closure plan, except that soil pore liquid monitoring may be terminated ninety days after the last application of waste to the treatment zone;

(2) Maintain the run-on control system required under paragraph (B) of rule 3745-67-72 of the Administrative Code;

(3) Maintain the run-off management system required under paragraph (C) of rule 3745-67-72 of the Administrative Code; and

(4) Control wind dispersal of particulate matter which may be subject to wind dispersal.

(E) For the purpose of complying with rule 3745-66-15 of the Administrative Code, when closure is completed the owner or operator may submit to the director certification both by the owner or operator and by an independent, qualified soil scientist, in lieu of a qualified professional engineer, that the facility has been closed in accordance with the specifications in the approved closure plan.

(F) In addition to the requirements of rule 3745-66-17 of the Administrative Code, during the post-closure care period the owner or operator of a land treatment unit must:

(1) Continue soil-core monitoring by collecting and analyzing samples in a manner and frequency specified in the post-closure plan;

(2) Restrict access to the unit as appropriate for its post-closure use;

(3) Assure that growth of food chain crops complies with rule 3745-66-76 of the Administrative Code; and

(4) Control wind dispersal of hazardous waste.