21—44.56(200) Secondary containment for nonliquid fertilizers and soil conditioners. Nonliquid fertilizer and soil conditioner stored in a totally enclosed building are exempt from the requirements of this rule. Unless stored in a totally enclosed building, all nonliquid fertilizer and soil conditioner materials shall be stored within an area which drains into a secondary containment structure. The secondary containment structure shall have a volume sufficient to retain the equivalent of 12 inches of runoff from the area drained into the containment structure. This minimum storage volume may be provided within the containment structure or in auxiliary storage tanks, and may be constructed of earth, concrete, or a combination of both.

44.56(1) Secondary containment structures constructed entirely or partially of earth shall comply with the following requirements:

a. The soil surface, including dike, shall be constructed to prevent downward water movement at rates greater than 1×10^{-6} cm/sec., and shall be maintained to prevent downward water movement at rates greater than 1×10^{-5} cm/sec. The method of achieving a satisfactory seal shall be determined by a registered engineer.

b. Dike shall be protected against erosion. If the slope is 30 degrees or less, grass can be sufficient protection, provided it does not interfere with the required soil seal. If greater than 30 degrees, other methods of erosion protection shall be used.

c. Top width of dike shall be no less than 2½ feet. The slope should be no greater than 45 degrees.

d. The diked area shall not have a relief outlet.

e. All liquid and other material collected shall be field applied at normal fertilizer application rates or transferred to auxiliary storage tanks.

44.56(2) Runoff collection structures constructed of concrete shall comply with the following requirements:

a. The base of the structure shall be maintained to prevent downward water movement.

b. The diked area shall not have a relief outlet.

c. All liquid and other material collected shall be field applied at normal fertilizer application rates or transferred to auxiliary storage tanks.