

Treepage Pits (Under Development)

(1) Location

(A) Applicable horizontal setback requirements shall be maintained, except that trees and other vegetation may be intentionally established adjacent to the Treepage pit where root growth will not damage system components.

(B) Treepage pits shall not be constructed in soils with a percolation rate slower than sixty minutes per inch, or where rapid percolation may result in contamination of water-bearing formations or surface waters.

(C) Treepage pits shall be located on the property to maximize the vertical separation distance from the bottom of the pit to the seasonal high groundwater level, bedrock, or other limiting layer.

(D) Treepage pits shall not be constructed in unstabilized fill.

(2) Design

(A) The minimum infiltration area shall be based on the design wastewater flow and the allowable hydraulic loading rate of the receiving soil.

(B) The design infiltration area shall be calculated using the perforated sidewall area of the Treepage pit in contact with native soil.

(C) Treepage pits shall consist of a nominal 18" diameter pump basin or approved equivalent with ½" diameter perforations in the basin bottom and side walls. Sidewall perforations shall extend from the bottom of the basin to a point not less than 6" below finished grade.

(D) Where more than one Treepage pit is required, the wastewater distribution system shall provide reasonably uniform flow between the pits.

(E) Wastewater shall be delivered to the Treepage pit through one-inch pressure pipe.

(F) The basin shall be installed vertically with its removable lid accessible at finished grade.

(G) Trees and other vegetation may be planted adjacent to the Treepage pit for uptake of water and nutrients, provided vegetation does not prevent access to the lid or damage system components.

(H) Treepage pits should be spaced at least 5 feet apart.

(3) Materials

(A) The Treepage pit basin shall consist of durable, corrosion-resistant plastic suitable for burial and wastewater service.

(B) One-inch pipe used to supply the Treepage pit shall meet the appropriate ASTM standard for pressure piping or an equivalent standard. Fittings shall be compatible with the distribution piping.

(C) Infiltration openings shall have a nominal diameter of one-half inch.

(D) The perforated exterior surface of the Treepage pit shall be wrapped with nonbiodegradable geotextile filter fabric.

(E) The geotextile shall permit passage of wastewater while limiting migration of surrounding soil into the basin.

(F) The basin shall have a removable lid suitable for burial installation and capable of remaining securely in place while allowing access for inspection.

(4) Construction

(A) Excavation equipment and unnecessary construction traffic shall be kept off the proposed infiltrative area to minimize soil compaction.

(B) Construction shall not be performed when soil moisture is sufficiently high to cause smearing or compaction of the infiltrative soil.

(C) Following excavation, smeared soil surfaces surrounding the Treepage pit shall be scarified.

(D) Native soil shall be placed around the basin without excessive mechanical compaction.

(E) The one-inch pressure pipe shall enter the basin through a secure connection and discharge within the basin.

(F) Finished grade surrounding the Treepage pit shall be configured to direct stormwater away from the basin lid.

(G) The removable lid should be fitted with a seal and secured in place with bolts or screws.

(5) Operation and Maintenance

(A) The Treepage pit shall be periodically inspected through the accessible lid.

(B) Inspection should include evaluation of:

- wastewater level or persistent ponding;
- drain-down following dosing;
- accumulated solids;
- condition of the pressure inlet;
- odor;
- surface wetness surrounding the pit; and
- root intrusion or damage to system components.

(C) If persistent ponding or loss of infiltration capacity occurs, the Treepage pit shall be inspected and serviced or replaced as necessary.