

10.10 Temporary Sediment Facilities

10.10.1 Temporary Sediment Basin

Temporary sediment basins shall be designed in accordance with the "2002 Connecticut Guidelines for Soil Erosion and Sediment Control." The following general information was taken from that publication.

Definition

A temporary dam, excavated pit or dugout pond constructed across a waterway or at other suitable locations with a controlled outlet(s) such that a combination of wet and dry storage areas are created. A basin that is created by the construction of a dam is classified as an *embankment sediment basin* and a basin that is constructed by excavation is an *excavated sediment basin*. A basin that is created by a combination of dam construction and excavation is classified as an *embankment sediment basin* when the depth of water impounded against the embankment at emergency spillway elevation is three feet or more.

Purpose

- to intercept and retain sediment during construction
- to reduce or abate water pollution
- to prevent undesirable deposition of sediment in wetlands, on bottom lands and developed areas
- to preserve the capacity of reservoirs, ditches, canals, diversions, storm sewers, waterways and streams

Applicability

- below disturbed areas with a contributing drainage area less than 100 acres. For drainage areas less than five acres, a temporary sediment trap may be used.
- only for locations where failure of the temporary sediment basin will not, within reasonable expectations, result in loss of life or damage to buildings, roads, railroads or utilities
- not for use as a post-construction stormwater renovation system

Refer to the referenced publication for planning considerations and design criteria for temporary sediment basins.

10.10.2 Temporary Sediment Trap

Like temporary sediment basins, temporary sediment traps shall be designed in accordance with the "2002 Connecticut Guidelines for Soil Erosion and Sediment Control." The following general information was taken from that publication.

Definition

A temporary ponding area with a stone outlet formed by excavation and/or constructing an earthen embankment.

Purpose

- to detain sediment-laden runoff from small disturbed areas long enough to allow a majority of the sediment to settle out.

Applicability

- below disturbed areas where the contributing drainage area is 5 acres or less. For drainage areas greater than 5 acres use temporary sediment basin measure.
- where the intended use is 2 years or less. For uses greater than 2 years use temporary sediment basin measure.
- when diverting sediment-laden water with temporary diversions that meet the above limitations for use

Refer to the referenced publication for planning considerations and specifications for temporary sediment traps.