



PDHonline Course C292 (4 PDH)

Ponds - Planning and Construction Guidelines

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Ponds - Planning and Construction Guidelines

Glossary

Antiseep Collar A constructed barrier installed perpendicular to a pipe usually made of the same material as the pipe. It intercepts the flow of seepage along the pipe and makes the seepage path longer therefore slowing the flow and reducing soil-carrying ability.

Auxiliary Spillway The spillway designed to convey excess water over or around the dam.

Boom A floating barrier extending across a reservoir area, just upstream from the dam, to protect the side slope from erosion.

Coefficient of Permeability The rate of flow of a fluid through a unit cross section of a porous mass under a unit hydraulic gradient.

Core Trench The trench in the foundation material under an earth embankment or dam used to reduce seepage.

Critical Depth Depth of flow in a channel at which specific energy is a minimum for a given discharge.

Curve Number (CN) Represents the runoff potential of various soil-cover conditions.

Dam (earth dam) A barrier along with spillways and other works, constructed across a watercourse, which permanently impounds water, traps sediment, and/or controls flood water.

Drop Inlet A vertical entrance to a barrel section of a principal spillway system.

Exit Channel Channels the flow downstream from the pond dam to safeguard the dam.

Filter and Drainage Diaphragm A control device installed perpendicular to a pipe, made of aggregate. It intercepts water flow along pipes and prevents the movement of soil particles from the earth dam.

Foundation The surface upon which the dam is constructed.

Hooded or Canopy Inlet A fabricated assembly attached to the principal spillway pipe to improve the hydraulic efficiency of the overall pipe system.

Peak Discharge The maximum flow rate at which runoff from a drainage area discharges past a specific point.

Pond Area A still body of water either naturally or artificially confined.

Principal Spillway The lowest ungated spillway designed to convey water from the reservoir at predetermined release rates.

Riser The vertical portion of a drop inlet.

Seedbed Preparation Clearing, plowing, disking, and cultivation of dredged material for to be seeded.

Site Investigation Site visit to evaluate physical features of a proposed watershed including soils data and watershed characteristics.

Storage Volume The total volume available from the bottom of the reservoir to the top of the dam.

Temporary Storage The volume from the crest of the principal spillway to the top of the dam.

Vegetative Retardance The amount of hindrance to flow cause by the type, density, and height of vegetation.