Dredging Systems with Floc Logs

Dredged water enters and bulk sediment settles out

Dredge Pit (deposition pit)

Mixing system, using Floc Logs, treats turbid water, not mud

Settling Pond

Particle collection system used to capture the fine flocculated particulate

Discharge to open environment

See Mixing Chamber with Floc Logs

See Particle Collection System in Settling Pond

See Particle Collection System Details:
- Baffle Grid
- Dispersion Field with Wattles or Checks
- with Rock Checks
Mixing Chamber with Floc Logs Options in Detail

Mixing Chamber Treatment System

*All dimensions of mixing chamber are specific to site*

- Floc Logs
- • Rebar can be used to secure the logs in the chamber
- Length of mixing chamber built to accommodate specific mixing reaction time

[Diagram of mixing chamber with Floc Logs options]

[Image of mixing chamber setup]
Particle Collection Systems in Settling Pond

Particle Curtains in Settling Pond

All dimensions of particle curtains are specific to site.

Particle curtains attached across the Settling Pond capture flocculated particulate as it flows through and settles to the bottom.
Particle Collection Systems in Settling Pond

Particle Curtains Details

All dimensions of particle curtains are specific to site.

Flow of Floc Log treated

NOTE: EXAMPLE ONLY
Particle Collection System Details

Baffle Grid System

All dimension of baffle grid specific to site

Panel Details

Water flows in from Settling Pond

Baffle Grid Panels

Discharge to open environment

Panel Details

Back view

Front view

Side view

Panels

All dimension of baffle grid specific to site

Water flows in from Settling Pond

Baffle Grid Panels

Discharge to open environment

Panels
Dispersion Field with Wattle or Checks

Jute Matting with polymer powder

Wattles or checks made from sand bags, wood, rip-rap or other materials.

Water flows in from Settling Pond

Top view

Discharge into environment

Particle Collection System Details
Particle Collection System Details

Dispersion Field with Rock Checks

*All dimensions of treatment ditch are specific to site*

- Rock Checks to capture flocculated particulate
- Jute Matting for particle collection