



**CONSIDERATIONS**

- : Soils
- : Area Required
- : Slope
- : Water Availability
- : Aesthetics
- 9 Hydraulic Head
- : Environmental Side Effects

**DESCRIPTION:**

Constructed wetlands have a significant percentage of the facility covered by wetland vegetation.

**APPLICATION:**

- < Need to achieve high level of particulate and some dissolved contaminant removal.
- < Ideal for large, regional tributary areas.
- < Multiple benefits of passive recreation and wildlife.

**INSTALLATION/APPLICATION CRITERIA:**

- < Suitable soils for wetland vegetation are required.
- < Surface area equal to at least 1% and preferably 2% of the tributary watershed.
- < Include a forebay for extra storage and to trap incoming sediment.
- < Involve qualified wetland ecologist to design and install wetland vegetation.
- < Establishing wetland vegetation may be difficult.

**LIMITATIONS:**

- < Concern for mosquitoes.
- < Cannot be placed on steep unstable slopes.
- < Need base flow to maintain water level.
- < Not feasible in densely developed areas.
- < Nutrient release may occur during winter.
- < Overgrowth can lead to reduced hydraulic capacity.
- < Regulatory agencies may limit water quality to constructed wetlands.

**MAINTENANCE:**

- < Remove foreign debris and sediment build-up.
- < Areas of bank erosion should be repaired.
- < Remove nuisance species.
- < Control mosquitoes.



**TARGETED POLLUTANTS**

- Sediment
- Nutrients
- Heavy Metals
- Toxic Materials
- Oxygen Demanding Substances
- Oil & Grease
- Floatable Materials
- : Bacteria & Viruses

- High Impact
- : Medium Impact
- 9 Low or Unknown Impact

**IMPLEMENTATION REQUIREMENTS**

- Capital Costs
- : O&M Costs
- : Maintenance
- 9 Training

- High : Medium 9 Low