

# Sediment Basin: Table 1 Summary of Effects to Atlantic Salmon

## Practice Information

Sediment Basins are used where physical conditions, ownership, management, or economics preclude treatment of a sediment source by use of other conservation practices. Sediment basins are often installed on construction or mining sites to protect the natural resources until vegetation or structures are installed to control sources of sediment. Other practices are sometimes needed with a sediment basin to protect natural resources.

The purposes of a Sediment Basin are to:

- Preserve the capacity of reservoirs, culverts, ditches, canals, diversions, waterways, and streams;
- Prevent excessive down-slope deposition;
- Trap sediment originating from construction sites; and
- Reduce or abate damage to natural resources from pollution or deposition of sediment



Network Diagram Effect Number	Life cycle affected:	Effect on Essential Fish Habitat (EFH):	Essential Fish Habitat Conservation Measures (CMs):	Effect on EFH (with CMs):
D.1 Increase in water impoundment	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No effect
D.2 Increase in trapped sediment	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No effect
D.4 Increase in disturbed areas (construction), soil erosion	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May adversely affect: short term increase in turbidity or streambed sedimentation during construction ; potential increase in BOD	Erosion & Sediment Control Measures: Critical Area Planting installed as needed for site specific conditions	No adverse effect

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<b>Network Diagram Effect Number</b>	<b>Life cycle affected:</b>	<b>Effect on Essential Fish Habitat (EFH):</b>	<b>Essential Fish Habitat Conservation Measures (CMs):</b>	<b>Effect on EFH (with CMs):</b>
I.1 Decrease in peak discharge	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No effect
I.2 Increase in flooding	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No effect
I.3 Decrease in gully and streambank erosion	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No effect
I.5 Decrease in contaminants, pathogens, sediments to receiving waters	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	None	No adverse effect
I.9 Increase in Downstream reservoir capacity	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No effect
C.1 Increase in quality of surface waters and aquatic habitats	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	None	No adverse effect