

Grade Stabilization Structure: Table 1 Summary of Effects to Atlantic Salmon

Practice Information

Grade stabilization structures are installed to stabilize the channel grade and control erosion to prevent the formation or advance of gullies and headcuts. The practice is used in areas where structures are necessary to stabilize the site. Grade stabilization structures are not designed to regulate flow or water levels in a channel area.

Special attention is given to enhancing fish and wildlife habitat where enhancement is practical. The practice is also helpful in reducing pollution from sedimentation. Grade stabilization structures are located so that the elevation of the inlet of the spillway is set at an elevation that will control upstream headcutting. A wide range of alternative types of structures are available for this practice and an intensive site investigation is required to plan and design an appropriate grade stabilization structure for a specific site.



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 Decrease in water velocity	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect
I.1 Increase in channel stability	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect
I.2 Decrease in headcutting and channel erosion	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect

Grade Stabilization Structure: Table 1 Summary of Effects to Atlantic Salmon

Network Diagram Effect Number	Life cycle affected:	Effect on Essential Fish Habitat (EFH):	Essential Fish Habitat Conservation Measures (CMs):	Effect on EFH (with CMs):
I.3 Decrease in Contaminants, pathogens, sediments to receiving waters	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect
I.5 Increase in Quality of surface waters and aquatic habitat	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect
None I.6 Decrease in soil erosion	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect
I.7 Increase in ponding behind structure	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect
I.8 Decrease in downslope deposition	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect
C.2 Increase in Fishable and swimmable waters; health and safety issues for humans, domestic and wild animals	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect