

Pumping Plant: Table 1 Summary of Effects to Atlantic Salmon

Practice Information

Pumping plants provide a dependable water source or disposal facility for water management. This practice applies wherever water must be pumped to accomplish a conservation objective, which may include but is not limited to:

1. Water supply for irrigation, recreation, livestock or wildlife;
2. Maintenance of critical water levels in swamps, marshes, open water, or for newly constructed wetlands and ponds;
3. Transfer of wastewater for utilization as part of a waste management system;

Facilitation of drainage by the removal of surface runoff or ground water.



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.3 Increase in water transfer to meet a need	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May adversely affect: decrease in surface or groundwater due to increased use of water for irrigation	Water Supply Control Measures: Irrigation Water Management applied as needed for site specific conditions	No adverse effect
I.5 Decrease and increase in quality of surface waters and aquatic habitats	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May Adversely Affect: decrease in surface waters due to increased use of water for irrigation or consumptive use	Hydrogeological investigations of siting, aquifer characteristics and proximity to stream evaluated for connectivity to pumping site location.	No adverse effect
I.6 Increase in surface or ground water use	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May adversely affect: decrease in surface or groundwater due to increased use of water for irrigation	Water Supply Control Measures: Irrigation Water Management applied as needed for site specific conditions	No adverse effect

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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.7 Decrease in water availability for other competing human uses (recreation, water supply, hydropower, etc.)	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May adversely affect: decrease in surface or groundwater due to increased use of water for irrigation	Water Supply Control Measures: Irrigation Water Management applied as needed for site specific conditions	No adverse effect
C.2 Decrease and increase in fish and wildlife health and habitat suitability	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	none	No adverse effect
C.3 Decrease and increase habitat suitability, safety and health issues for humans, domestic and wild animals	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	none	No adverse effect