FloNergia Hatcheries Case Study

Increased Salmon And Trout Yield In Ontario Hatchery With FloMov Pump Installation

Repopulating Ontario Lakes

The depletion of wild fish in Ontario's lakes has raised concern for the habitation of salmon and trout throughout these waters. In order to maintain a healthy population of salmon and trout within these lakes, both private and government operated hatcheries around Ontario have been built in order to hatch and breed fish from a young age to a suitable size to be released into the wild.

Why Hatcheries?

Hatcheries have been developed to artificially breed and grow fish such that native fish can be conserved while replenishing fish spawn in various lakes, at rates better than what nature would allow. Hatcheries improve the sustainability of extracting juvenile fish from lake waters.

FloNergia Improves Oxygen Levels for Optimized Fish Growth

As many hatcheries are built on land, a need for water circulation and aeration within the hatchery tanks are a necessary criterion for fish growth. Optimizing water oxygen levels has a favourable and direct effect on the growth and required feed requirements for the development of fish. The FloNergia FloMov™ pump has been deployed by hatcheries over the past several years to improve both aeration performance and oxygen levels at a much more energy efficient rate. The FloNergia FloMov™ pump is capable of maintaining the oxygen levels and provides reliable pumping and circulation in the hatchery tank. The use of the FloNergia FloMov™ pump has eliminated the need for separate aeration and pumping systems which has drastically reduced energy costs.

A Specific Application

A government operated hatchery in Ontario needed to improve both their existing aeration performance as well as increase the water oxygen levels in their hatcheries to promote salmon and trout hatchery yields. The hatchery installed one 6-inch FloNergia FloMov™ pump into the hatchery tank. Since being installed, the hatchery improved salmon and trout yields by increasing aeration and water oxygen levels while reducing energy, operating and maintenance costs.