

Company

One Fish Engineering

Project

Ray Canal - Little Wind

Application

Traveling water screens

Challenges

To significantly decrease fish loss in the irrigation canal caused by entrainment while meeting site-specific flow rates and NOAA Fisheries size criteria.

Results

Reduction in fish passing into the irrigation canal, prevention of additional blockage and allowance of easier debris removal.

“Hydrolox was chosen during the design process due to the company’s customer service, proven product and knowledge of fish screen requirements. During the design and construction phases, I have found the customer support and engineering assistance of Hydrolox to be outstanding.”

—Suzanne Huhta, P.E., One Fish Engineering

Hydrolox™ Traveling Water Screen Significantly Reduces Fish Loss for Ray Canal-Little Wind



Background

Ray Canal, on the Little Wind River in Wyoming, was originally built in 1894 and is now part of a system collectively known as the Wind River Irrigation Project. The system delivers as much as 350 cfs of water to over 100 users regularly.

Challenge

The Ray Canal did not have traveling water screens installed anywhere along the irrigation system, resulting in significant fish loss. Studies performed in 2002 estimated the loss of fish in Ray Canal during that irrigation season to be on the order of 100,000 fish due to entrainment.

Solution

Working with OneFish Engineering, a consulting firm specializing in fish passage engineering and protecting natural resources, Hydrolox recommended installing 8 traveling water screens, which prevent fish loss and require low maintenance and downtime. The traveling water

screens also deliver a low cost of ownership and are designed to meet site-specific flow rates and NOAA size specifications.

Results

Hydrolox traveling water screens solution resulted in a substantial reduction in fish loss along the Ray Canal. This solution prevents blockages and provides easier debris removal. Additionally, the traveling water screens are virtually maintenance free, with minimal moving parts, delivering a low cost of ownership. Huhta confirms: “After careful consideration of the types of screens available for this project, we were pleased with our decision to utilize Hydrolox traveling water screens due to their ease of use, reliability and cost.”

Ray Canal continues to deliver 350 cfs of water to its customers while meeting site-specific flow rates and NOAA size criteria.

For more information contact us at: U.S. 1-866-586-2825, Europe +800 3344 5544, or www.hydrolox.com