Project Description

KGS Group has been authorized by the Manitoba Floodway Authority to prepare a conceptual design for a fish passage facility at the Red River Floodway Inlet Control Structure. Although the Inlet Control Structure is normally not a blockage to fish passage, during those periods when the gates of the structure are raised, fish passage is affected. The Manitoba Floodway Authority, has therefore, issued this study to consider options for a fish passage structure to provide fish passage at the Inlet Control Structure over a range of operating conditions.

The scope of this study includes the identification and screening of all potential fish passage concepts for headwater and tailwater levels that range over 20 feet in elevation difference with special consideration to construction, operation, maintenance, and dam safety issues. Conceptual designs were prepared for the preferred alternatives that will facilitate fish passage both when the radial gates are elevated and when they are lowered.

North/South Consultants worked as a sub-consultant for this project to provide design information on the fish species present in the Red River. This information included fish habitat, fish populations, swimming capabilities, fish movements, as well as fish passage design criteria for each fish species.

As part of the study team, Dr. Robert Newbury served as a specialist advisor and provided his extensive experience with the analysis and design of fish enhancement and fish passage facilities.