



Client

Quebec Port Authority

Vessel Type

Bulk Carriers, Tankers and Tugs

Location

Quebec, Quebec, Canada

Manoeuvring Feasibility Study for a New Port Infrastructure

As part of a port expansion project, the Quebec Port Authority (QPA) called on the services of the Maritime Simulation and Resource Centre (MSRC).

For this project, the MSRC modelled the planned infrastructure and integrated it in the existing database for the Port of Quebec. It also converted some current fields predicted by digital modelling, depicting the evolution of currents throughout the tidal cycle for spring tide and neap tide conditions. For each geo-referenced point, 12 different vector values were assigned to reflect the dynamic current evolution during tidal cycles.

Simulations designed to determine the operational feasibility of this project and the potential impacts on existing infrastructures were conducted in collaboration with the seasoned pilots of the Corporation of Lower Saint Lawrence Pilots.

