Location: Canoe Pass, Seymour Narrows, BC  
Client: New Energy Corporation, Calgary, AB  
Dates: June - July 2005

Numerical modeling simulations of ocean currents and water levels have been computed for Canoe Pass between Quadra Island and Maude Island in Discovery Pass, British Columbia, Canada. Canoe Pass has a dam, or barrier, across it which blocks passage of water from the east into Seymour Narrows since the dam was built many decades ago. The numerical model studies are part of a site investigation to assess the potential for operation of an underwater turbine to generate electrical power.

The ASL-COCIRM numerical model used in this study is a full three-dimensional circulation model. The 3-D model was used to simulate the water flows and water levels through Canoe Pass if the dam were completely removed and replaced by a 40 m wide passage between Quadra and Maude Islands.