

LAKE MAJOR DAM | EMERGENCY REPAIRS | ENGINEERING SUPPORT

Halifax Water



Description of Services Provided:

Phase I: Meco was retained by Halifax Water to oversee an emergency response to a limited failure, and prepare interim structural design improvements and stability measures to the Timber Dam constructed in the 1960's. The Lake Major Dam, located in Dartmouth, Nova Scotia, is owned and operated by Halifax Water as a water storage reservoir, supplying water to the Lake Major Water Treatment Plant. Meco provided engineering services for Halifax Water to strengthen the Lake Major Dam structure and also provide engineering support during construction of the remedial works.

Phase II: Meco provided conceptual design drawings for Halifax Water's evaluation.

The main components of the project deliverables were:

- Design of structural repairs
- Design of temporary fish passage
- Design of siphon system for maintenance flow
- Cost estimate
- Engineering support during construction
- Progress Reports
- Approved for Construction Drawings
- Hydraulic analysis and modelling
- Survey
- Geotechnical Assessment
- Conceptual design of new structure
- Assistance with Regulatory Approvals
- Conceptual Design Report
- Conceptual Design Drawings
- Public Consultation Plan
- Geotechnical Report
- Hydrotechnical Report