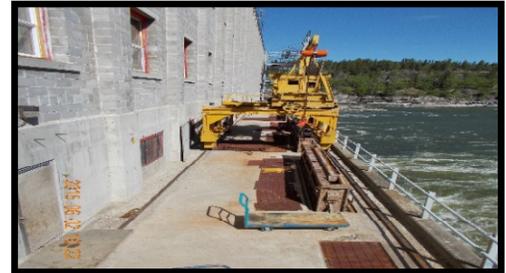


## ISLAND FALLS HYDROELECTRIC STATION | DAM SAFETY INSPECTION

SaskPower



### Description of Services Provided:

Meco was retained by SaskPower between 2015 to 2018 to complete Annual Dam Safety Inspection's (DSI's) for the Island Falls Hydroelectric development. The structures include a reinforced concrete Main Dam and Powerhouse, 'A' Dam, Whitesand Dam and nine (9) embankment dams that form the reservoir rim. The Island Falls Hydroelectric Project is located on the Churchill River near the village of Sandy Bay, Saskatchewan.

The Island Falls Main Dam and 'A' Dam are reinforced concrete dams. The Main Dam includes a powerhouse, ice sluices, undersluices and spillway. 'A' Dam is a concrete buttress. The earthfill dams consist of homogenous type structures and are located in low topographic areas in the northern and eastern perimeter of Sokatisewin Lake.

### The main components of the project deliverables were:

- Project Management
  - Kick-off Meeting to establish schedule
  - Project Management Plan
  - Progress Reports
- Annual Dam Safety Engineering Inspection
  - Site Visit
  - Summary Report
- Instrumentation Data Review and Analysis
  - Earth dam piezometers
  - Anchor load data
  - Crane rail gap measurements
  - Slope inclinometers
  - Powerhouse tell tale measurements
  - Powerhouse directional crack monitoring measurements
- A comprehensive Dam Safety Inspection Report of findings and recommendations