

























MAJOR ASSET RENEWAL PLAN PROJECTS

- Upgrade valve operating machinery to hydraulics.
- Replace culvert valves.
- Rehabilitate miter gates.
- Upgrade miter gate operating machinery to hydraulics.
- Upgrade compressed air systems.
- Install ice flushing system.
- Rehabilitate highway tunnel.

AUTOMATIC IDENTIFICATION SYSTEM (AIS)

- AIS is a shipboard broadcast transponder system operating in a VHF maritime band capable of sending and receiving navigational information.
- AIS disseminates environmental information.
- AIS monitors vessel speeds.

DRAFT OPTIMIZATION PROJECT

- Draft Optimization Tools (DOT) have been developed to predict under keel clearance (UKC) during vessel transit.
- DOT's utilize:
 - vessel draft
 - vessel speed
 - water levels
 - river bottom profiles
 - vessel squat curves/equations

