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Parks Canada

Federal Infrastructure Investment Program

Update

September 2022



Horseshoe Lake Dam 2021



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Parks Canada Infrastructure Renewal

Infrastructure renewal allows the Trent-Severn Waterway to continue performing its role in serving Canadians by:



- ❖ Mitigating flood risks for the purpose of protecting people and property;
- ❖ Protecting heritage structures and landscapes;
- ❖ Operating the Trent-Severn Waterway as a uniquely Canadian destination for visitors that supports economic opportunities for local communities.



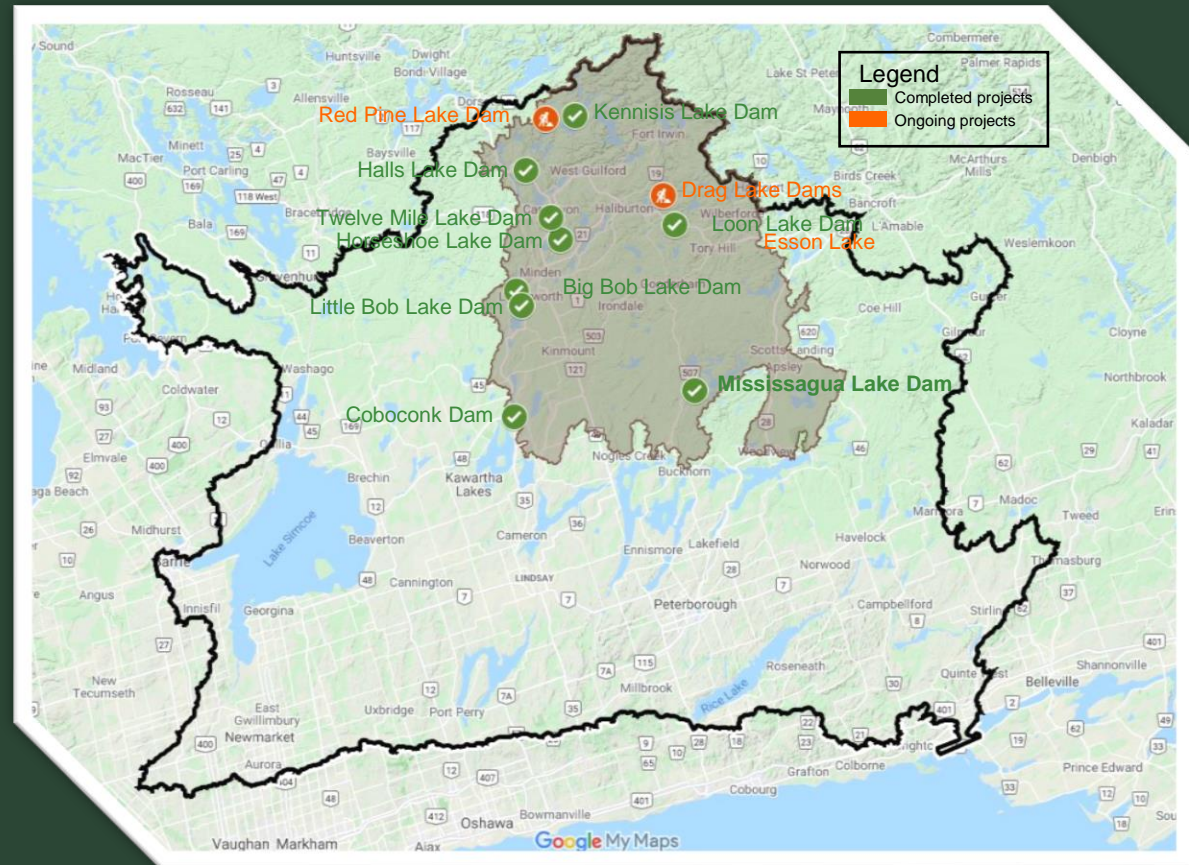
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Structural capital assets support the operations of a more than 18000 km² watershed, and a 386 km navigable waterway.

These assets include 140 dams and water control structures, 2 lift locks, 2 flight locks, 36 conventional locks, and a marine railway.





Completed Projects in Reservoir Area

- ❖ Kennisis Lake Dam Replacement
- ❖ Mississauga Lake Dam Replacement
- ❖ Drag Lake North Dam Rehabilitation
- ❖ Loon Lake Dam Rehabilitation
- ❖ Little Bob Lake Dam Repair
- ❖ Big Bob Lake Dam Repair
- ❖ Percy Lake Dam & Little Brother Dam Access Roads
- ❖ Coboconk Dam Rehabilitation
- ❖ Twelve Mile Lake Dam Replacement
- ❖ Horseshoe Lake Dam Replacement





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Red Pine Lake Dam Replacement



June 2022

Commenced: August 2021

Scope:

- ❖ full replacement of the dam with a concrete two sluice dam
- ❖ dredging of the river and portion of the lake to allow for barges to move construction material and equipment to and from the site
- ❖ refurbishment of mechanical equipment
- ❖ public safety improvements

Status:

- ❖ Contractor has completed the dredging work and has mobilised to site.
- ❖ The bypass structure is complete and has been commissioned.
- ❖ The cofferdam structures construction is complete and the site is dewatered.
- ❖ Archaeological work on historic dam in the excavation has been completed.
- ❖ Very little winter work due to limited access means this project is expected to span three years.



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Red Pine Lake Dam Replacement



Archaeological Investigation on Historic Dam Upstream of Existing Red Pine Lake Dam – August 2022



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Drag Lake South Dam Replacement



June 2022

Commenced: August 2021

Scope:

- ❖ full replacement of the dam with two sluice dam plus the hydro intake structure
- ❖ refurbishment of mechanical equipment
- ❖ public safety improvements

Status:

- ❖ A cofferdam isolates the south dam from water flow.
- ❖ The construction of the dam is now complete and all that remains is install of an access between the North and South Dams.
- ❖ Cofferdam removal should be complete before the end of September, 2022



Essen Lake Side Dam



Background:

- ❖ Earth embankment associated with Essen Lake Concrete Dam failed in May 2022
- ❖ Emergency work – installation of a water filled bladder dam to sustain summer lake levels in June 2022

Scope:

- ❖ Construction of a new concrete wall to maintain the reservoir rim

Status:

- ❖ Preliminary design complete
- ❖ Geotechnical and survey to confirm design parameters to occur in September 2022
- ❖ New dam construction by Parks Canada forces through fall and winter



Ongoing Asset Management

- Gathering Data and Preparation -

- ❖ Funds have been directed toward projects with deferred work, as identified by engineering inspections and various reviews.
- ❖ During the implementation of the program of work, Parks Canada has gathered up-to-date information about TSW structural assets and their condition.
- ❖ This preparatory work is not as visible, but forms an invaluable baseline of data for ongoing asset management.
- ❖ The in-depth data has led to some re-prioritization: work on some projects has been expanded, while other work has instead been prioritized for the future.



Ongoing Asset Management

- Gathering Data and Preparation -

Inspections, Assessments, Studies and Investigations – July 2022

- ❖ Additional funding has been provided over the next 2 years for these activities
- ❖ More information on the affected dams will be provided in the coming months



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For further information or
to receive direct e-mails
regarding construction:



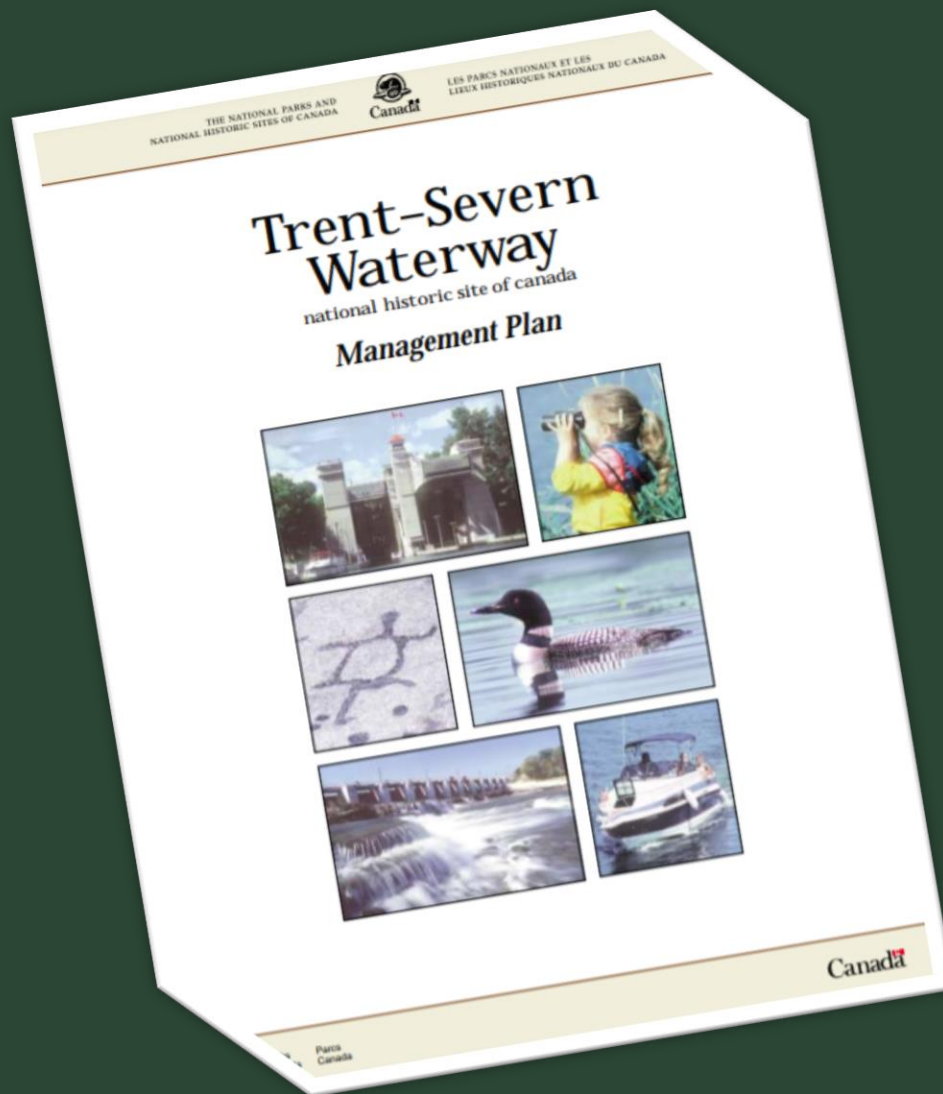
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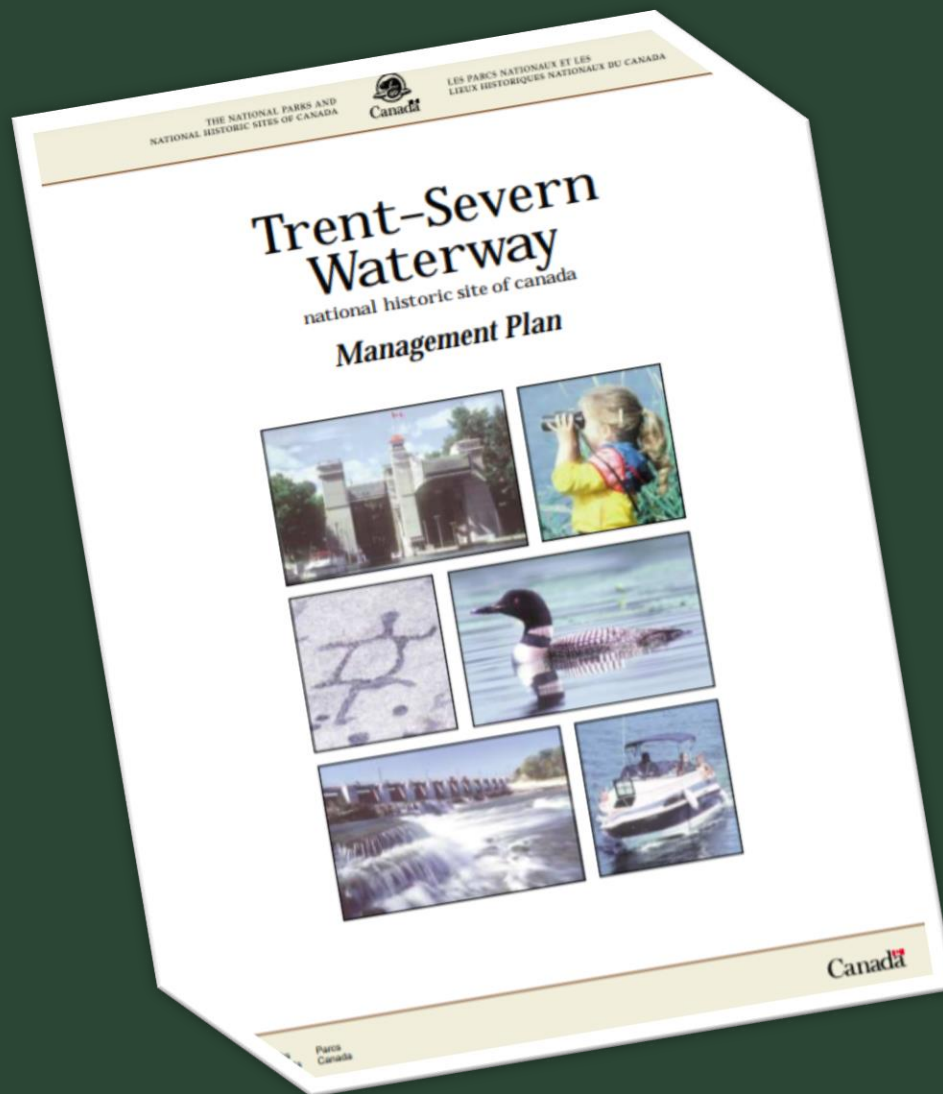
- ❖ Management plans set the high level objectives for the management of Parks Canada places over a ten year period.
- ❖ They are a legal requirement under the Parks Canada Agency Act; they must be approved by the Minister and tabled in Parliament.
- ❖ Consultation with Indigenous groups and stakeholders is a requirement for the development of a management plan.



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Public consultation of the DRAFT management plan will run from the beginning of April until the end of June and will include:

- ✓ An online web-based component that allows review and comment on the plan;
- ✓ Bilateral meetings with key stakeholder groups; and
- ✓ Virtual Town hall-style meetings for the general public.

The Parliamentary deadline for tabling the new TSW management plan is December 2022.