

Request for Quote

For

Operation, Maintenance & Surveillance Manual Update

For Warkworth Dam

In the Municipality of Trent Hills



LOWER TRENT
CONSERVATION

Requested by Lower Trent Region Conservation Authority
May 26, 2022

RfQ Contact:

Janet Noyes – Manager, Development Services & Water Resources
janet.noyes@ltc.on.ca

Closing:

Friday, June 17, 2022 at 4:00 pm

Lower Trent Conservation
714 Murray Street
R.R. #1
Trenton, ON K8V 5P4

Introduction / Background

The Lower Trent Conservation (LTC) watershed region includes the furthest downstream section of the Trent River watershed, encompassing 2,070 square kilometres. It includes the Trent River, which flows out of Rice Lake to the Bay of Quinte at Trenton, and the watersheds of eight main tributaries. The watershed region also includes a number of smaller watercourses that flow directly into Lake Ontario and the Bay of Quinte from Grafton to Quinte West. LTC owns and operates 1 dam within our jurisdiction – the dam on Burnley Creek (also known as Mill Creek) in Warkworth.

In 2018/2019 DM Wills completed a Dam Safety Report (DSR) for the Warkworth Dam following the guidance from the province. As part of that study, it was noted that the current Operation, Maintenance and Surveillance Manual (OMS Manual), did not comply with the requirements in the 2007 Canadian Dam Association (CDA) Dam Safety Guidelines. In 2021 LTC replaced the old log lifting system with a new overhead gantry system and the current OMS does not reflect the new equipment either.

Recommendations from the DSR include the following points specific to the OMS Manual:

- Undertake routine dam inspections throughout all seasons and at a frequency of at least once per month.
- Add a separate section on the routine inspection form for documenting public and operator safety (fall arrest, fencing, railings, safety boom, etc.).
- Consider adding a separate section to the annual inspection form dedicated to summarizing the recommendations and requirements for follow-up action.
- Develop a process and form for undertaking special inspections following unusual or extreme events.
- Monitor the headpond and piezometer water levels as part of the routine inspections and develop a headpond water level vs. piezometer water level curve for each piezometer.
- Update the OMS Manual to include the results of the latest dam safety and dam breach studies and ensure that the information recommended in the 2007 CDA Dam Safety Guidelines is provided.

Lower Trent Conservation is seeking quotes from suitably qualified firms to update the Operation, Maintenance and Surveillance Manual to reflect the recommendations above, address the changed log lifting system and ensure that the OMS Manual complies with the 2007 CDA guidelines. Creating Inspection forms are part of this undertaking.

Please find the following attached:

- Appendix A - Photos of dam
- Appendix B – Location information

The current OMS and the Dam Safety Report for the Warkworth Dam can be made available upon request.

Scope of Work

An updated Operation, Maintenance and Surveillance Manual (OMS) outlining the activities required to operate the dam safely and in accordance to CDA guidelines.

Inspection forms for regular and specific inspections will be required.

Guidance and scheduling of the inspections including the monitoring of four (4) piezometric wells on the property will be included.

Schedules of required maintenance and monitoring/surveillance will be included.

Dam Drawings

Drawings of the dams are available for review at Lower Trent Conservation main office (address below) or by contacting Janet Noyes (janet.noyes@ltc.on.ca) for scanned copies.

Schedule

Lower Trent Conservation will receive quotations until June 17, 2022. Review of quotations and acceptance is expected to take two weeks with award of the contract anticipated in early July. Delivery of the manual is expected by the end of September 2022.

Quotation Submission Requirements

One copy of the quotation shall be submitted no later than 4:00 pm, Friday, June 17, 2022. Quotations shall be sent by email to: janet.noyes@ltc.on.ca.

The quotation shall be addressed to:

Lower Trent Conservation
714 Murray Street
R.R. #1
Trenton, ON
K8V 5P4

Attention: Janet Noyes, P.Eng.

Quotes are to include all labour costs, site visits, and report production costs. The quote format can be a letter with lump sum quote – a breakdown is not necessary but can be included. Three hard copies of the final manual are expected with this project. Experience with similar type of work is highly recommended and corporate literature describing such experience is expected to be included with the quote.

Selection Criteria

This request for quotation is not a Tender. The lowest quotation or any quotation will not necessarily be accepted as per Section 4.6 the Non-competitive procurement of the Purchasing Policy and Procedures. Lower Trent Conservation reserves the right not to accept a quotation it deems incomplete or deficient.

If you require a site visit to the property, the site is available and accessible to the public.

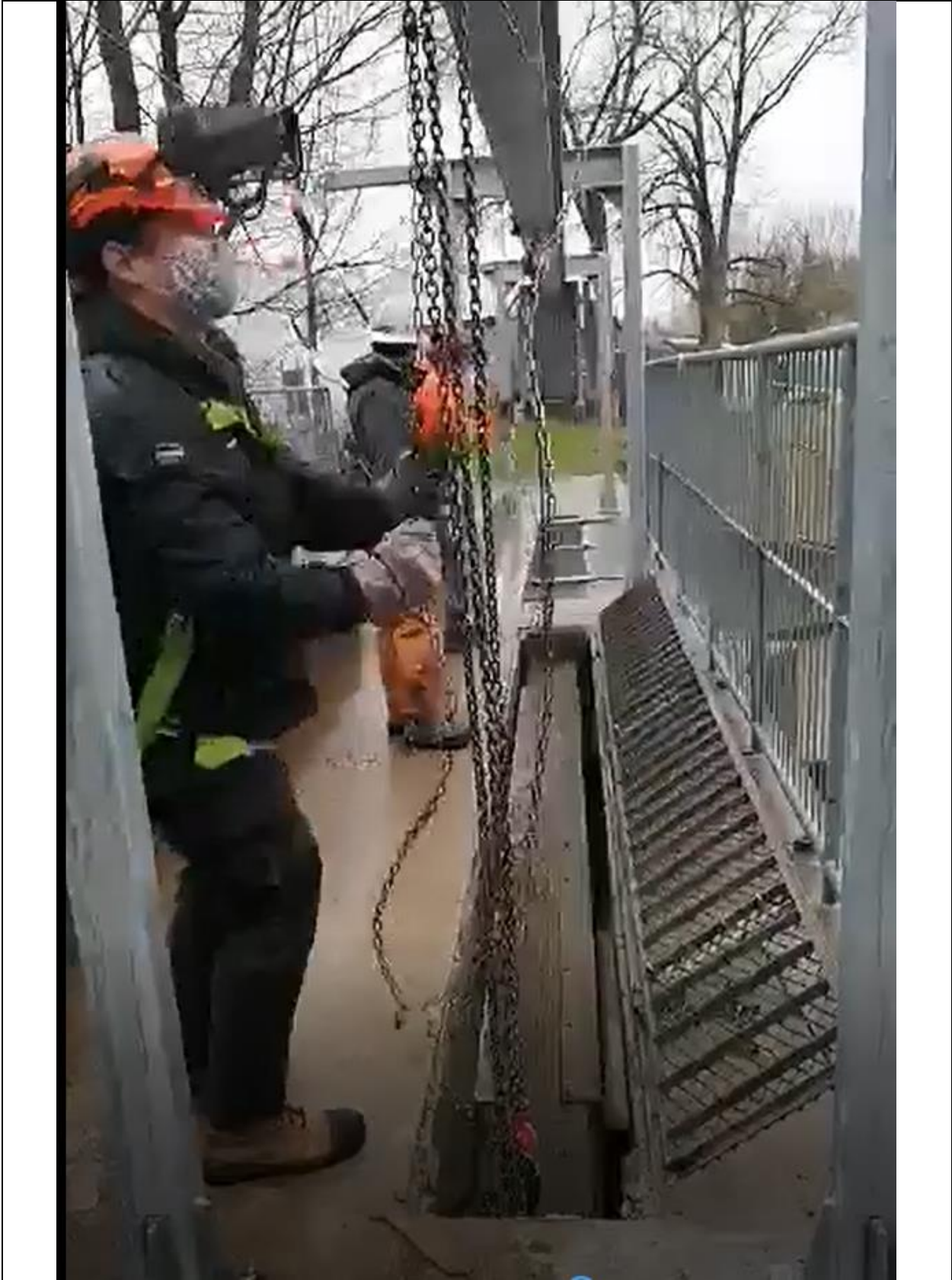
Appendix A: Photos of Dam



View of Warkworth Dam Deck – looking south -logs in

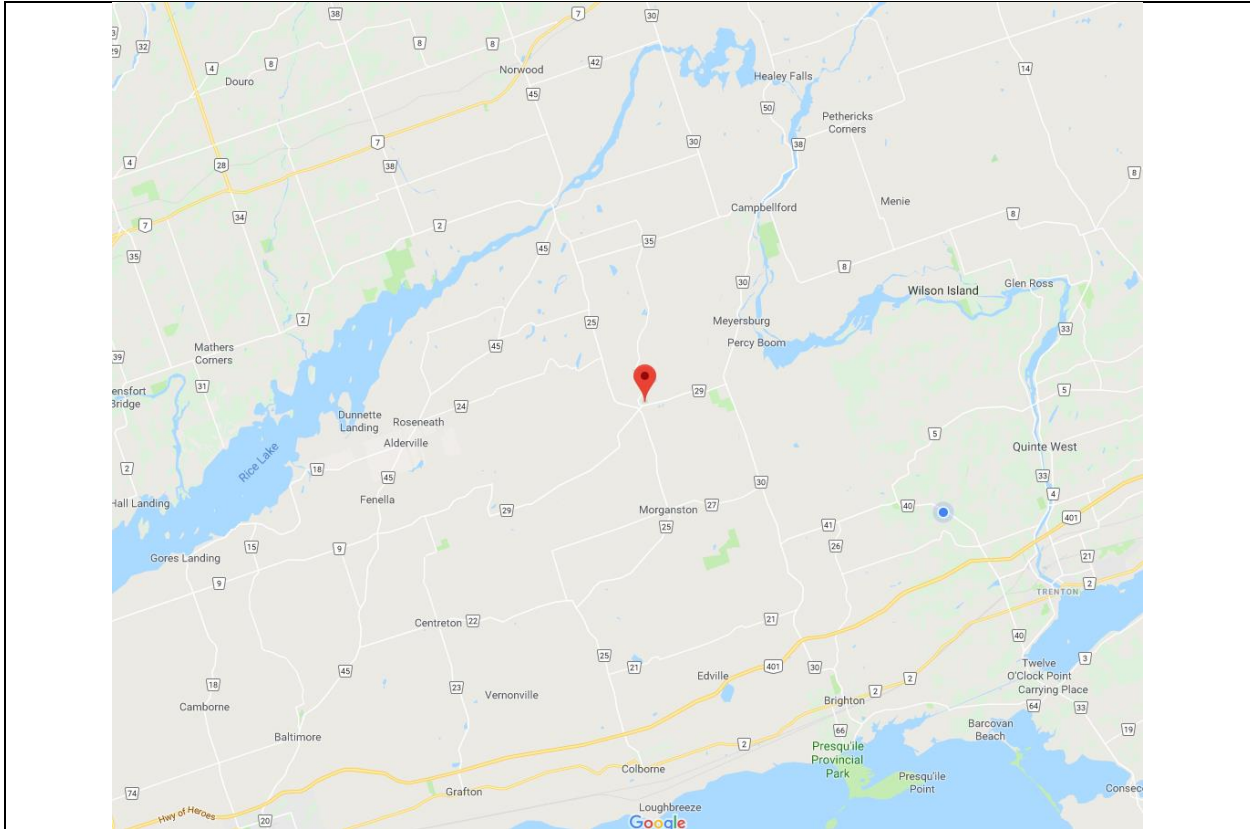


View of pond – summer operation level



Dam Operations with new Gantry system

Appendix B: Location of Dam



General Location Map – Warkworth Area, Municipality of Trent Hills



Warkworth Dam Location.