

Landrie Lake Water Utility Proposed Upgrade and Environmental Assessment

July 2024

The Landrie Lake Water Utility (LLWU) is jointly owned by the Municipality of the County of Richmond and the Town of Port Hawkesbury. Landrie Lake has been identified by green hydrogen and ammonia production developers as the source water for what is the essential process component. The LLWU was originally constructed around 1969 and not structured to serve this level of industrial development. Serving the needs of this new industry will result in increasing the existing water demand and re-establishing the transfer of water from the adjacent watershed as per the original water system design.

The proposed upgrade is to reinstate the Little River Reservoir Transfer Pumping Station (LRTP) to enhance yield at Landrie Lake. The project will include reinstatement of 2 kms of road abandoned in 1992, replacement of the existing building superstructure and associated equipment, electrical power supply and

emergency backup, and reinstatement of 2.6 kms of pipeline and right-of-way from Little River Reservoir to Landrie Lake. At the pipe outlet, a reinforced concrete energy dissipation structure (approximately 230 m long along an existing mapped watercourse) is being considered to transition flow to stream flow for entry into Landrie Lake, subject to final design.

Environmental Assessment Registration (EARD) Process and Schedule

Improvements to the LLWU will require a registration as a Class I Undertaking under the Nova Scotia Environment Act in accordance with the Environmental Assessment Regulations because the proposed project involves transferring water between watersheds, and the drainage area containing the water to be diverted is larger than 1 km².

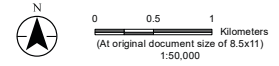


Aerial view of existing pipeline corridor between pump house and Hwy 104 (West)



Landrie Lake Water Utility

- Road / Highway
- Watercourse / Waterbody
- Elevation Contour
- ▨ Wetland
- Project Development Area**
- Water Utility Line
- Access Road (Existing)



Stantec Consulting Ltd. is preparing the EARD. Field work in support of the assessment is underway and includes the following:

- Archaeological Resources Assessment
- Wetland Assessment
- Vegetation Survey
- Breeding Bird Survey
- Fish and Fish Habitat Survey

Membertou Geomatics Solutions is preparing a Mi'kmaq Ecological Knowledge Study.

Aberdeen Engagement Solutions is engaging with the public and stakeholders to provide project information and respond to questions. Information provided by the public and stakeholders is taken into consideration in the preparation of the EARD.

It is anticipated that the EARD will be submitted to Nova Scotia Environment and Climate Change (NSECC) in November 2024.

The public will have an opportunity to review the EARD and submit comments. When the EARD is released by NSECC, members of the public will be able to review the information at the following locations:

- Environmental Assessment Branch website
- Two public locations – location to be determined
- Department of Environment and Climate Change, local office

Public comments are reviewed by the Minister of Environment and Climate Change and considered when making a decision regarding the project.

Comments or Questions

If you would like to learn more about the proposed project or have questions, please contact:

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