

## Boat Harbour Remediation Project

### Construction of Pilot Testing Infrastructure

#### Why is the pilot work important?

This work will help us to determine the most effective technologies to use in the cleanup phase of the project. Part of the process will include examining sediment behavior, management, treatment, and its transport and eventual containment.

#### How will the pilot work be done?

The pilot scale work is being completed in stages, with each stage requiring approval by Nova Scotia Environment.

- 1) The first stage was completed with the construction of a temporary barrier to isolate Cove 1, approved and constructed in 2017.
- 2) The next stage includes construction of the infrastructure necessary to carry out the pilot testing. This includes construction of a treatment laydown pad and dredging work compound.
- 3) The third and final stage will be the actual pilot testing of methods recommended by the design engineer, based on studies over the past number of months.

#### What is involved in the construction of the infrastructure?

The treatment pad will include the construction of a gated access area, containment berm, lined sludge dewatering pad and supporting pipelines. A chain link fence will also be installed to separate the area from the operational effluent treatment plant.

The dredging work compound will include the construction of an access road, drainage berm and gravel laydown pad.

Environmental controls will be put in place, as required. This may include measures to control surface water runoff and erosion and sedimentation control measures.

#### When do you plan to start the pilot testing?

Construction of the infrastructure is expected to begin in July 2018. The actual pilot testing is expected to begin in August 2018, and continue into December 2018/January 2019. We expect to have another public open house session in May 2018 to discuss what the pilot testing work will include, as part of Nova Scotia Environment's permitting process.

#### How are the overall remediation plans coming along?

GHD was hired as the design engineer in May 2017. They are just finishing up a rigorous site investigation. The nature and extent of contamination is now well understood. The contamination is fairly well contained within the treatment facility and Boat Harbour.

Bench scale testing has just been completed. This involved a series of laboratory tests to figure out how the sediment responds in the lab to various treatment options. This helps inform treatment methods to test during the pilot testing work. Planning for pilot testing is now underway, with a tender to construct the infrastructure described above expected in May 2018 and a second tender for pilot testing expected in June 2018. Pilot testing will inform the final remediation design.

The team is also working on finishing up baseline studies to support an environmental impact assessment that will be submitted this coming summer. We are on schedule to begin cleanup activities in 2020, after the effluent stops flowing.

A project website was recently launched:

<https://novascotia.ca/boatharbour/>