

Cleanup set to begin at residential properties

The Port Hope Area Initiative (PHAI) remediation of residential properties in Port Hope will begin this spring. The first group of property owners will see the excavation and removal of historic low-level radioactive waste from identified areas in their yards. Following the cleanup, the properties will be restored according to the plans developed through discussions with the owners (see page 5).

The cleanup of residential properties has been planned to minimize the effects on homeowners and neighbourhoods as much as possible. In addition, monitoring and control measures will be in place to prevent the spread of contamination and protect the health and safety of the workers, the residents and the environment.

The waste from all sites will be transported to the new Long-Term Waste Management Facility, located south of Highway 401 between Baulch Road and Brand Road in Port Hope, for safe storage and monitoring. The facility has been accepting waste



First placement of on-site waste at the LTWMF

since December 2017, when the first truckloads of contaminated soil stored at the closed Welcome Waste Management Facility were placed in the first cell of the project's new engineered aboveground mound. As the on-site waste is relocated, the second and third of the mound's four cells will be constructed to accommodate the historic waste from residential and other sites in Port Hope.

Beginning the cleanup of the community this year is an important milestone for Port Hope. As we undertake the project, we are committed to minimizing impacts on the community. – Bryan Tyers, Director of Project Delivery.

The waste is the result of the refining and processing activities of Eldorado Nuclear Limited, which operated in Port Hope from the 1930s to the 1980s. Canadian Nuclear Laboratories (CNL) is undertaking the PHAI on behalf of Atomic Energy of Canada Limited, a federal Crown corporation.

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What's next for the Port Hope Project

Temporary Storage Sites

Historic low-level radioactive waste at three locations in Port Hope will be transported to the new Long-Term Waste Management Facility in spring/summer 2018. This project activity will be the first step in the highly coordinated plan to clean up sites and transfer waste from within the community to the new facility.

The waste stored under tarps on the Centre Pier will be moved first, followed by the waste stored at the Pine Street North Extension site and the municipal sewage treatment plant.

PHAI trucks will follow designated project routes when the waste is being moved. The trucks will be loaded in a controlled manner, and the contents will be securely covered. No truck will be released from a work site onto a public roadway until it has been closely monitored for contamination and cleaned if necessary.

The removal of waste from the Centre Pier will begin the process of clearing the pier for use as the staging area during the remediation of the Port Hope Harbour.

Port Hope Waterfront Sites

The remediation and restoration of the waterfront area sites will begin in spring 2018 with work in the West Beach, Mill Street South and CN/CP viaducts areas.



Centre Pier and Pine Street North Extension Temporary Storage Sites

An aerial photograph of Port Hope Harbour. A red outline marks the area to be remediated, which includes the harbour walls and the approach channel. Two inset images provide more detail: one shows 'Sediment containment tubes separate contaminated water from sediment - water treated on site' and the other shows a cross-section diagram of 'Harbour wall rehabilitation'.

Port Hope Harbour

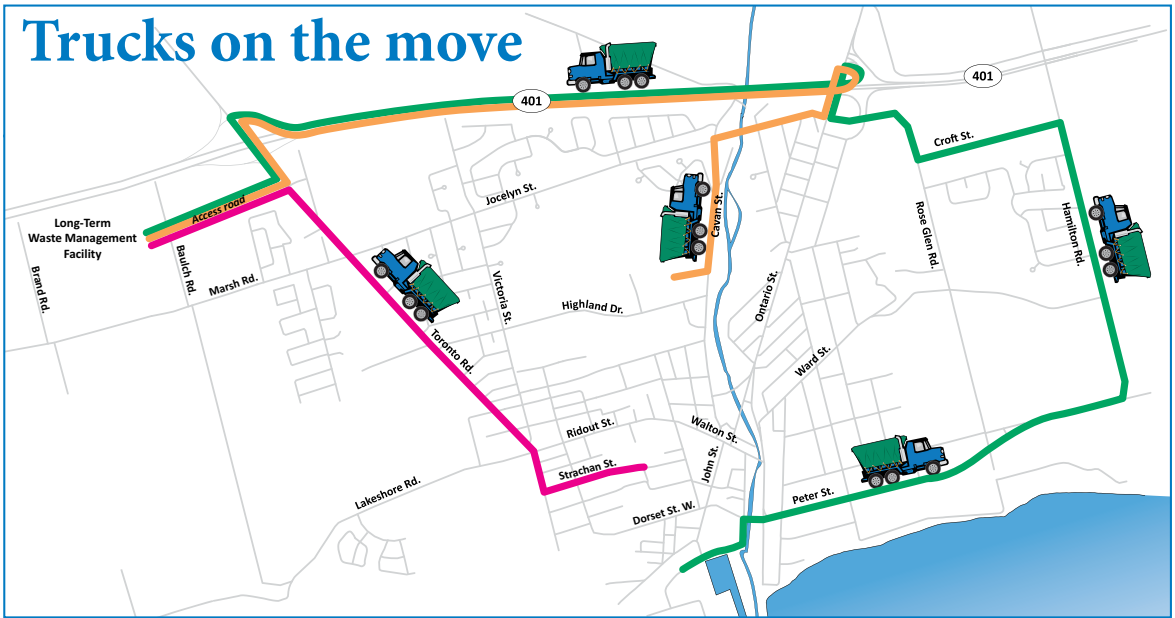
Scheduled to begin in 2018, remediation in this area will take approximately five years to complete.

Work in the harbour includes:

- Rehabilitating approximately 1.5 kilometres of aging harbour walls
- Isolating the work area by installing two wave attenuation structures
- Suction dredging the approximately 120,000 cubic metres of sediment contaminated with historic low-level radioactive waste from the inner and outer harbour and approach channel
- After the cleanup is completed, the Port Hope Harbour will be returned to the municipality for its use.



Trucks on the move



While travelling along designated transportation routes, developed in close consultation with the community, you may share the road with PHAI trucks moving to and from the Long-Term Waste Management Facility. If you have any questions or concerns about the movement of waste, please contact CNL at 905.885.0291.

Dust monitoring and control

CNL has stringent requirements for monitoring, managing and controlling dust during PHAI construction and remediation. The PHAI Dust Management and Requirements Plan sets out actions, roles and responsibilities for staff and contractors who carry out work with the potential to cause dust. For dust to become airborne, exposed soil, dry conditions and wind must be present. By avoiding or managing these factors, dust can be prevented and controlled.

Prior to and during construction work, wind speed, wind direction, precipitation and temperature are carefully monitored. Based on the monitoring results, dust prevention measures are implemented before work begins. These measures include dampening soil in dry areas, reducing activities or loads to avoid unnecessary dust generation, using wind fencing around work areas and, if necessary, postponing work activities

likely to cause dust. During work, dust prevention measures include minimizing the areas of exposed soil and applying a nightly cover to open work sites.



Dust suppression activities

Managing dust

- If the waste is very saturated and/or frozen, the potential to create dust is limited
- Dust suppressants and water are available on site, ready to be sprayed on loads as required and will be applied to both empty and loaded trucks when required.

PROPERTY RADIOLOGICAL SURVEY: UPDATE

Kitchen-table talks continue

Meetings with owners to discuss the remediation and restoration plans for their properties have become quite intimate, with talks often taking place at kitchen tables in the owners' homes.

It's a sensitive topic – the removal of historic waste from backyards, front yards, basements and streetscapes – and the personal approach is a key part of designing the cleanup of private properties.

The collaborative process includes a detailed explanation of radiological testing results and drawings that highlight the removal and replacement of plantings, trees and physical features such as decks and fences.

"We seek the active participation of owners in the restoration of their properties," said Stephanie Clifford, CNL Communications Officer. "It's gratifying to see how owners respond positively to



our efforts to make this process inclusive."

To date, design plans have been discussed with 45 property owners, with a number of properties moving to remediation. Meetings to discuss plans with the next group of 115 owners will be scheduled with CNL staff in the next few months.

Approximately 800 properties will require remediation through the PHAI.

INVESTIGATIONS

CAMPAIGN 1

(450 properties)

100%

Completed

CAMPAIGN 2

(800 properties)

100%

Completed



CAMPAIGN 3

(1,400 properties)

Initial testing

100%

Completed

Delineation underway

CAMPAIGN 4

(1,250 properties)

Fieldwork underway

CAMPAIGN 5

(1,250 properties)

Radon monitoring
underway



Design Work

Remediation/restoration design work underway for 160 properties requiring PHAI remediation



Road Allowances

Borehole drilling & soil sampling underway at **160** road allowances



Compliance Letters

Issued by neighbourhood once testing and reporting is completed

New opportunities to give us your feedback

As CNL begins the remediation and restoration of major sites and residential properties this year, our PHAI Public Information Program is evolving in response to feedback received from stakeholders to ensure the program continues to meet the changing needs of the community.

As a result, CNL is replacing the fixed membership and structured meeting format of the Port Hope Project Citizen Liaison Group with new and varied public engagement tactics, including targeted focus groups, neighbourhood meetings and opportunities to observe remediation activities.

This change is designed to encourage participation from property owners and community members directly impacted by project-related construction and remediation activities within their residential and business neighbourhoods.

All outreach events will be well advertised to the community in advance. CNL will use input from participants to help refine our communications approaches and ensure that Port Hope residents, business owners and visitors remain well informed about the day-to-day impact of project activities.

PHAI Engagement – by the numbers...

93 Public
Engagement
Activities
in 2017

CNL responded to requests for information on planning, design, implementation and environmental monitoring of the Port Hope and Port Granby projects. In 2017, more than 2,300 public interactions took place in person, at the Project Information Exchange and by phone, email and letter.

46,691

The PHAI website and social media feeds provide 24/7 access to up-to-date, accurate project information. In 2017, there were almost 47,000 visits to the website and 50,000 views on Facebook.

2,364



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