

## IN THIS ISSUE

Regional business opportunities . . . . . 2

Property Radiological Survey . . . . . 3

Citizen Liaison Group . . . 4

Species at risk survey . . . 5

3-D models . . . . . 5



Port Hope Project  
Waste Water Treatment Plant  
exterior and interior (inset)

## Waste water treatment plant moves on to equipment installation

**W**ork on the new Port Hope Project Waste Water Treatment Plant has moved to the interior, and equipment installation is underway.

Applying best-available technology, the plant will use a two-stage process to remove a wide range of contaminants from waste water collected at the site. Once construction is completed later this fall, the treatment process will be tested and the results provided to the Canadian Nuclear Safety Commission (CNSC) for approval to begin operating the plant.

This process will ensure the quality of water being discharged into Lake Ontario meets or exceeds stringent CNSC requirements, resulting in enhanced protection of the Great Lakes Basin ecosystem.

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**We're redesigning the PHAI website – [www.phai.ca](http://www.phai.ca) – to make it more user friendly and accessible through mobile devices. Watch for the updated site this summer.**

## PHAI projects generating regional business

The Port Hope Area Initiative (PHAI) projects are generating area business as contracts are awarded to support various construction activities. Examples of business opportunities resulting from the Port Hope and Port Granby projects include:

- Construction of the Port Hope Project access road: Behan Construction, Cobourg – approximate value: \$2 million



Construction of the Port Hope Project access road

- Engineering services, materials, fabrication and erection of structural steel for the Port Hope Project and Port Granby Project waste water treatment plants: Trade Tech, Bowmanville – approximate value: \$1.5 million
- Wall installation, exterior brick and stone work for the Port Granby Project Waste Water Treatment Plant: Quinte Masonry, Belleville – approximate value: \$400,000
- Paving Elliott Road, part of the clean construction material transportation route for the Port Granby Project: CoCo Paving Inc., Bowmanville – approximate value: \$380,000
- A Peterborough propane supplier provided heating services for the Port Hope Project Waste Water Treatment Plant;
- The Rent All Centre in Port Hope supplied site trailers and construction equipment;
- A Newtonville contractor provided site washroom services for the Port Granby Project;
- A Grafton contractor erected fencing around the Port Granby Project long-term waste management facility site; and
- Landscaping businesses from Bowmanville and Cobourg provided tree clearing and planting for both projects.

In addition, hundreds of thousands of dollars in subcontracts and supplies for other project needs, from landscaping to land survey work, have benefitted area businesses. For example:

- A Gore's Landing construction company supplied granular material for the Port Hope Project long-term waste management facility parking lot and access road;

It is predicted that the PHAI will continue to create economic opportunities throughout the region in the form of jobs, supplies and services as the major contracts for the Port Hope Project and Port Granby Project long-term waste management facilities and associated project activities get underway.

# Property Radiological Survey well underway

The Property Radiological Survey is well underway with more than half of Ward 1 Port Hope property owners now involved in some aspect of the program.

The work will test every Ward 1 and a few Ward 2 properties over five campaigns to identify which properties require cleanup of historic low-level radioactive waste (LLRW).

To date, all initial investigations – including radon monitoring, interior and exterior gamma radiation testing and borehole drilling/soil sampling – have been completed at the first 430 properties, with historic LLRW identified on 45 properties. All 45 property owners have been notified and reassured about the safety of their properties.

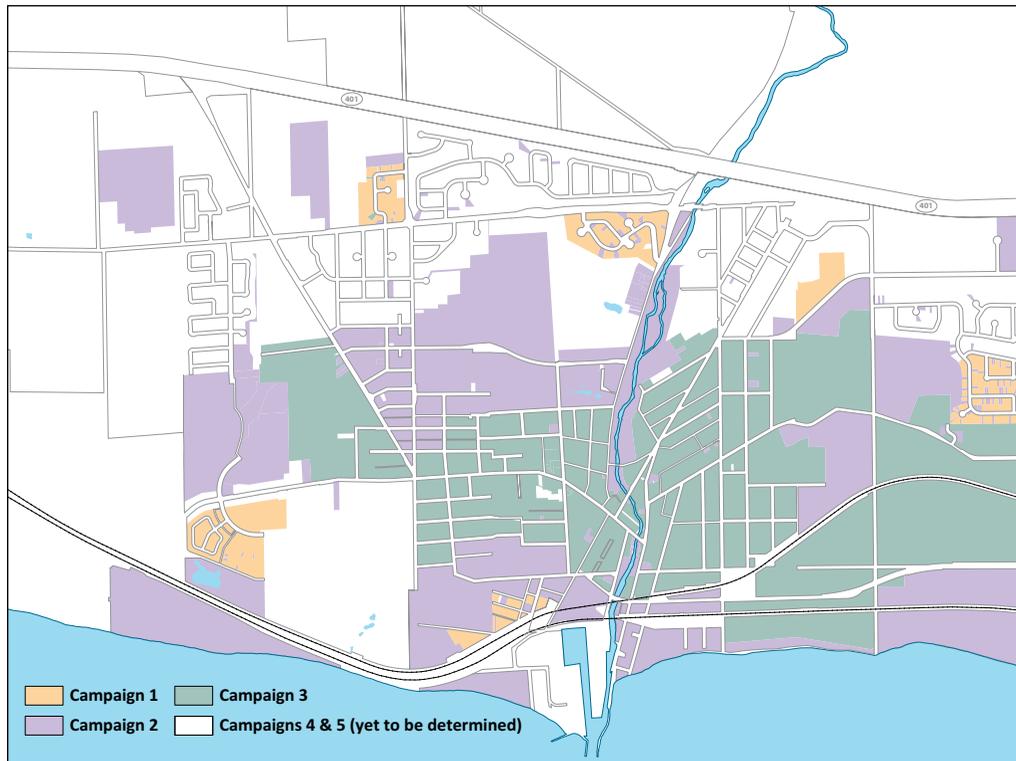
Port Hope Project Director Walter van Veen says experience gained from testing in Campaign 1 is being applied to future campaigns to help the investigations progress more smoothly.

As a result of these lessons learned, adjustments to the campaigns are being made and affected property owners are being notified. Some properties formerly included in Campaigns 2 and 3 will be moved to subsequent campaigns while other properties will be added.

“Making adjustments will permit us to minimize disruption in the community by being able to time individual property cleanups with nearby larger-scale site cleanups,” explains van Veen.

## Upcoming work includes:

- Field work at over 750 Campaign 2 properties as a follow-up to last year’s radon monitoring.
- Campaign 3 radon monitoring at more than 1,700 properties.
- Testing of remaining properties (Campaigns 4 and 5) over the next several years.



## Citizen Liaison Group plans for upcoming year

The 2014 term of the Port Hope Project Citizen Liaison Group (CLG) is underway with six newly appointed members taking their places on the volunteer committee.

The 12-member group of Port Hope residents brings together a broad cross-section of community interests including the environment, education, business, health and community life. The CLG is dedicated to the exchange of information between the PHAI Management Office and broader community. Members work to develop a technical understanding of the project so they can play a role in strengthening community awareness.

At its first meeting of 2014 in March, CLG members discussed their priorities for the upcoming year, which include increasing the visibility of the CLG in order to raise public awareness about the project.



(l-r) **Branden Fonovic, Stephen B.H. Smith, Janette Laffin, Bob Anglin, Gwyneth Barlow, Paul Laing, Brian Maxwell, Steven Mark, Catharine Tozer, Ben Normand and Wendy Giroux (absent – Kelly Morgan Batten)**

The group meets four times a year. At its final meeting of each year, the CLG will host a public event to provide the community with a forum to discuss the Port Hope Project. Vacancies for the CLG are publicly advertised every year in local papers and on the PHAI website. Members serve two-year staggered terms.

### Meet the CLG

#### **Bob Anglin – 2<sup>nd</sup> year**

Architectural Conservancy of Ontario (Port Hope) representative

- Interests – conservation, arts & culture

#### **Gwyneth Barlow – 1<sup>st</sup> year**

Citizen at large

- Interests – nuclear industry/science

#### **Branden Fonovic – 2<sup>nd</sup> year**

Knights of Columbus Council #6490 representative

- Interests – environment, education

#### **Wendy Giroux – 2<sup>nd</sup> year**

Port Hope Minor Hockey representative

- Interests – youth organizations, real estate, business

#### **Janette Laffin – 1<sup>st</sup> year**

Citizen at large

- Interests – real estate, community involvement

#### **Paul Laing – 1<sup>st</sup> year**

Citizen at large

- Interests – citizens' involvement, education and youth

#### **Steven Mark – 1<sup>st</sup> year**

Port Hope & District Chamber of Commerce representative

- Interests – business, economic opportunities

#### **Brian Maxwell – 1<sup>st</sup> year**

Willow Beach Field Naturalists representative

- Interests – environment/conservation

#### **Kelly Morgan Batten – 1<sup>st</sup> year**

Port Hope Rotary Club representative

- Interests – community involvement, business

#### **Ben Normand – 1<sup>st</sup> year**

Port Hope Young Professionals representative

- Interests – youth, business

#### **Stephen B.H. Smith – 2<sup>nd</sup> year**

Citizen at large

- Interests – business, environment/conservation

#### **Catharine Tozer – 2<sup>nd</sup> year**

Northumberland Hills Hospital representative

- Interests – health, education, history

# PHAI updates ecological inventory

The PHAI has updated its inventory of species at risk to include plants and animals that are newly protected under legislation since the environmental assessments for the Port Hope and Port Granby projects were completed in 2006 and 2009 respectively.

The updated information will permit the PHAI Management Office to protect species by avoiding or managing species interactions in areas where project construction and remediation activities are planned. This work will help PHAI contractors to plan their work with appropriate mitigation measures in mind. For example, a management plan will be developed to protect vegetation located in the West Beach area of Port Hope.

A team of specialized consultants used site observation, plant sampling and a review of ecological mapping in areas of Port Hope and Southeast Clarington to generate the updated

inventory. As a result, a number of species were added to the database such as the Barn Swallow, the Bobolink and the Little Brown Myotis (bat). This updated information will assist the PHAI in meeting its environmental assessment commitments and complying with applicable federal and provincial legislation.

The Species at Risk Database report will be available at the PHAI Project Information Exchange and electronically by request.



Bobolink

Little Brown Myotis

Barn Swallow

## 3-D model tells the story

A table-top model of the Port Hope Project long-term waste management facility and surrounding lands is helping the public visualize what the engineered aboveground mound will look like when the project is complete and how it will fit into the local landscape.

The model is built to a 1:1500 scale (1 cm = 15 metres). An architectural model company used the project engineering drawings to create three-dimensional (3-D) computer contours of the mound and local area. The contours were “hand-dressed” to create accurate site details such as roadways, landscaping features, buildings and the aboveground mound. Additionally, a take-apart model was built to profile the layers that compose the mound’s cover and base liner systems to illustrate how the waste will be safely encapsulated.



**Port Hope Project table-top model**

The model can be transported to off-site events and can be viewed at the PHAI Management Office’s Project Information Exchange at 115 Toronto Road, Port Hope. A model of the Port Granby Project facility has also been developed.

## Waste water treatment plant

...continued from page 1

Chemical precipitation and clarification (Stage 1) are followed by reverse osmosis (Stage 2). ROCHEM reverse osmosis technology, developed in Germany, was selected as the most effective way to treat the Port Hope Project waste water. The purpose of the plant is to treat surface water and groundwater during construction of the waste management facility and contaminated water (leachate) from within the aboveground mound after it is capped and closed.

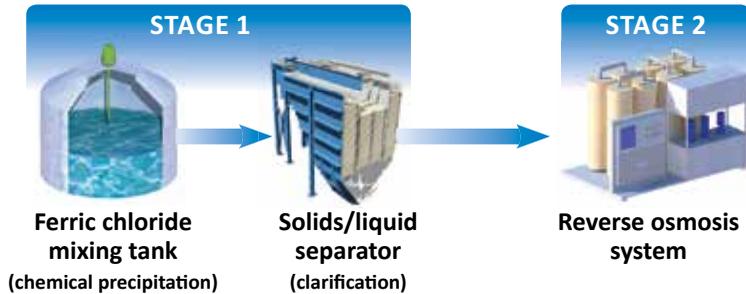
The plant is located at the site of the new long-term low-level radioactive waste management facility south of Highway 401 and west of Baulch Road in Port Hope.



**Municipality of Port Hope Council members and staff tour the Port Hope Project Waste Water Treatment Plant**

Through the Port Hope Project, approximately 1.2 million cubic metres of historic low-level radioactive waste will be cleaned up from various sites in Port Hope. The waste will be safely transported to the long-term waste management facility.

## Waste water treatment process



### Port Hope Area Initiative (PHAI) Project Information Exchange

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