

## Waste Water Treatment Plant nearly complete



View of the plant looking southeast

Construction of the new Port Granby Project Waste Water Treatment Plant is scheduled to be completed this summer.

Using best-available technologies, the treatment process has been designed specifically to remove a wide range of contaminants through a two-stage process that includes microbiological treatment followed by reverse osmosis. Over the next several months, 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.

The new waste water treatment plant will treat groundwater and surface water pumped

from the existing facility site as well as groundwater and surface water collected at the new facility during waste placement.

The plant will also treat contaminated water (leachate) from within the aboveground mound once it is closed.

The plant is located at the site of the new Port Granby Project long-term low-level radioactive waste management facility. It will replace the treatment plant located at the existing waste management site on the shoreline of Lake Ontario.

Through the Port Granby Project, approximately 450,000 cubic metres of historic low-level radioactive waste will be safely relocated from the existing facility to a new engineered aboveground mound. This new long-term facility will be built about 700 metres north of the lake on the east side of Elliott Road.



Thickening tank installation

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.



## Citizen Liaison Group plans for upcoming year



2014 CLG members engage in discussion during first meeting

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

The six-member group of Clarington residents brings together a broad cross-section of 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 the 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, learning more about how the environment will be protected during the construction phase and what business opportunities project construction will generate for the region.

### Meet the CLG



**Jack Hampsey** – CITIZEN AT LARGE

- Director of Communications at Valleys 2000 Inc.
- Former nuclear control technician at Ontario Power Generation
- Bowmanville resident



**Maria Kordas-Fraser** – SOUTH EAST CLARINGTON RATEPAYERS' ASSOCIATION (SECRA) REPRESENTATIVE

- Former teacher, college professor, school librarian
- Long-time Port Granby resident



**Suzanne Land** – CITIZEN AT LARGE

- Finance generalist for the Student Association of Durham College and University of Ontario Institute of Technology
- Member – Samuel Wilmot Nature Area Management Advisory Committee
- Bowmanville resident



**Marc Landry** – DURHAM NUCLEAR HEALTH COMMITTEE REPRESENTATIVE

- Manager of Quality Control at the Canadian Broadcasting Corporation
- Courtice resident



**Blair Smyth** – CITIZEN AT LARGE

- Member – Clarington Pioneer Cemetery Board; Jerusalem #31 Masonic Lodge and Oshawa Shrine Club
- Retired correctional officer
- Bowmanville resident



**Bonnie Wrightman** – CLARINGTON BOARD OF TRADE AND OFFICE OF ECONOMIC DEVELOPMENT REPRESENTATIVE

- Office Manager, Clarington Board of Trade
- Courtice resident

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

## PHAI projects generate regional business opportunities

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:

- 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



Paving Elliott Road at the Port Granby Project facility

- 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

*continued on page 4...*

## Survey 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 and 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 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.



## Local business opportunities ...continued from page 3

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

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 Newtonville contractor provided site washrooms for the Port Granby Project;
- A Grafton contractor erected fencing around the Port Granby Project long-term waste management facility site;
- Landscaping businesses from Bowmanville and Cobourg provided tree clearing and planting for both projects;

- A Gore's Landing construction company supplied granular material for the Port Hope Project long-term waste management facility parking lot and access road;
- A Peterborough propane supplier provided heating services for the Port Hope Project Waste Water Treatment Plant; and
- The Rent All Centre in Port Hope supplied site trailers and construction equipment.

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.

## 3-D model tells the story

**A** table-top model of the Port Granby 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 completed and how it will fit into the 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 Port Granby Project 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 Granby 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 Hope Project facility has also been developed.

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

115 Toronto Road, Port Hope, ON L1A 3S4 • Tel: 905.885.0291 • Fax: 905.885.9344 • info@phai.ca • www.phai.ca

Find us on Facebook



Follow us on Twitter

