

Port Granby environmental project moves ahead

Work gets underway this fall at the site of the Port Granby Project long-term waste management facility to prepare for construction of the engineered aboveground storage mound and remediation of the existing waste management facility next year.

In July, the Government of Canada announced the award of an \$86.8 million contract to AMEC-CB&I Joint Venture to undertake the Port Granby Project in southeast Clarington. AMEC-CB&I Joint Venture is a Canadian partnership that brings together firms experienced in low-level radiological waste remediation, construction and engineering. The award of the Port Granby Project marks a milestone for the Port Hope Area Initiative (PHAI) as the first of the PHAI's two projects to begin waste remediation and restoration.

The contract includes excavation and transfer of approximately 450,000 cubic metres of historic low-level radioactive waste from the existing Port Granby waste site on the shoreline of



Aerial view of Port Granby area

Lake Ontario to a long-term waste management facility (LTWMF) being built about 700 m north of the lake.

AMEC-CB&I will adhere to stringent health and safety plans, required by the PHAI Management Office under its Canadian Nuclear Safety Commission licence for the Port Granby Project. Contractor requirements for the protection of the public, workers and the environment include dust management, occupational health and safety, radiation protection and traffic management. The contractor must also conform to all municipal bylaws.

“Everything is now in place for us to start the clean-up phase of this important project,” said Craig Hebert, PHAI General Manager. “Our contractor brings extensive international expertise to environmental projects such as this,

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Rehabilitation of a culvert and widening of a section of Concession Road 1 between Lancaster and Elliott roads was completed this summer along the Port Granby Project clean construction material transportation route. The PHAI undertook the roadway improvement to support increased truck traffic to the long-term waste management facility site.



Bags of compost and soil installed under roadway promote natural vegetation growth

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and the PHAI has assembled a strong team to oversee the work with safety and environmental protection as our top priorities.”

The current contract is the third major Port Granby Project contract to be awarded. A clean construction material haul route was built in 2012 to allow trucks delivering construction materials and equipment to access the LTWMF site located east of Elliott Road, south of Concession Road 1.

Construction of a new state-of-the-art waste water treatment plant, the second major contract, was completed earlier this year. The plant will treat waste water during and after construction of the engineered aboveground mound and greatly improve the quality of treated water discharged to Lake Ontario. The new plant will be fully operational next year.

The Port Granby Project addresses a long-standing environmental problem resulting from the past practices of Eldorado Nuclear, a former Crown Corporation, and its private sector predecessors. Waste from Eldorado’s Port Hope uranium refining operation was deposited at the Port Granby Waste Management Facility between 1955 and 1988.

Port Granby Project Work Sequence



1 Contractor mobilizes workforce and begins setting up on site

2 Equipment deliveries start along clean construction material transportation route



3 Construction of underpass and internal waste haul route begins

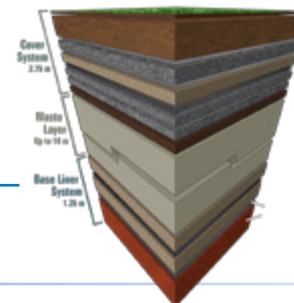


4 Aboveground mound construction and liner installation begins



5 Multi-year waste excavation, transport and placement in mound begins

6 Cap and close aboveground mound; restore existing site



Contractor begins to gear up this fall

Over the next several months, AMEC-CB&I Joint Venture will be working behind the scenes to assemble subcontractors, suppliers and the labour force needed to undertake the project and submit the more than 40 compliance plans, procedures and other project documents required by the PHAI Management Office.

This fall, the contractor will survey the existing and long-term waste management sites to map natural contours and features, identify utilities and ensure bird nests will not be disturbed by project activities. Construction will start in the spring to build internal roads and install fencing at the new site. This will be followed by construction of the internal waste haul route and underpass at Lakeshore Road to permit transportation of the historic low-level radioactive waste from the existing site to the long-term waste management facility without using public roads. Construction of the engineered aboveground mound base liner system, waste excavation and placement of the waste in the mound are scheduled for later in 2016.

Making it easy to learn about PHAI business opportunities

Interested in learning about business and contracting opportunities with the PHAI? You can drop in to the PHAI Management Office at 115 Toronto Road, Port Hope, any Thursday from 1:00 to 3:00 p.m. to speak with our procurement staff. No appointment is needed.

Our staff will explain the procurement process and highlight the additional resources available to businesses, which include:

- **The Port Hope Contractor Portal:** The Port Hope & District Chamber of Commerce, in partnership with the Municipality of Port Hope and the Clarington Board of Trade and Office of Economic Development, has developed the portal (www.porthopecontractorportal.com) as a platform for businesses to network with one another and connect with the PHAI's prime contractors.

AMEC-CB&I Joint Venture – the major contractor for the Port Granby Project – is currently looking for subcontractors and



Screen capture of PHAI website

suppliers to provide a wide range of services from engineering, land surveying and excavation to equipment rentals, security and fuel.

- **PHAI Careers and Contract Opportunities:** The PHAI posts job and contract opportunities on www.phai.ca.
- **CNL Website:** Anyone interested in becoming a PHAI supplier should complete the Vendor pre-qualification questionnaire at www.cnl.ca/en/home/work/supply-chain/vendors.aspx

For more information, contact the PHAI Management Office at 905.885.0291 or info@phai.ca.

Major contractor experienced in LLRW remediation

Amec Foster Wheeler and CB&I (AMEC-CB&I Joint Venture) have joined forces, bringing together a long history of environmental remediation experience across Canada, the U.S. and abroad.

Together, Amec Foster Wheeler and CB&I built the Monticello Radiological Landfill under the U.S. Department of Energy's Uranium Mill Tailings Remedial Action Plan. Similar to the Port Granby Project, the Monticello project involved the construction of a multi-layered containment facility, construction of supporting

infrastructure and transportation routes and waste placement.

Amec Foster Wheeler was the lead contractor for the Grand Junction, Colorado low-level radioactive waste clean-up project, which involved approximately 5,000 properties contaminated with waste generated from a former uranium processing plant. CB&I carries out environmental cleanups for the U.S. Army Corps of Engineers, remediating sites impacted by radioactive waste generated between the 1940s and 1960s.



Become part of the Citizen Liaison Group

Applications now being accepted

Recruitment is now underway to fill openings for the 2016 term of the Port Granby Project Citizen Liaison Group (CLG).

The CLG meets at least four times a year and provides a forum for its volunteer members and PHAI Management Office staff to exchange information and ideas about the cleanup and safe, long-term management of the historic low-level radioactive waste in the Municipality of Clarington.

The group is composed of up to eight members who reflect a cross-section of the community by representing areas such as the environment, business, education, health and community life.

CLG members have the opportunity to gain an in-depth understanding of the project and share their perspectives with the PHAI project team. They participate in project activities such as tours of project sites and join PHAI staff at community events.

“CLG members not only develop a deeper understanding of the Port Granby Project, they also contribute in real and valuable ways,” said Peter MacLeod, the CLG’s independent facilitator. “As the project moves ahead, the work of the CLG will become even more important.”

Applications for the 2016 CLG will be accepted until December 18. Visit www.phai.ca or call 905.885.0291 for more information.

Final step in AECL restructuring complete

The final stage in the restructuring of Atomic Energy of Canada Limited (AECL) was completed in September when AECL entered into a long-term contract with Canadian National Energy Alliance (CNEA) for the management and operation of Canadian Nuclear Laboratories (CNL). The PHAI Management Office is part of CNL.

This past June, the Government of Canada announced the selection of CNEA as the preferred bidder to manage and operate CNL under a Government-owned, Contractor-operated (GoCo) model. CNL, as a private-sector company, remains responsible for the day-to-day operations of its facilities and offices across Canada, which include Canada’s largest nuclear science and technology complex at



Canadian Nuclear
Laboratories

Laboratoires Nucléaires
Canadiens

Chalk River, Ont., and the PHAI Management Office and Low-Level Radioactive Waste Management Office in Port Hope.

All of CNL’s current commitments to nuclear safety and strong community relationships remain unchanged. Similarly, the PHAI will continue to meet all existing obligations and commitments for the Port Hope and Port Granby projects in accordance with its Canadian Nuclear Safety Commission licences, Environmental Assessments and municipal Legal Agreement.

PHAI mitigation approach focuses on preventing, managing and monitoring project impacts

An overview is now available to anyone interested in learning more about how the PHAI minimizes impacts of the Port Hope and Port Granby projects.

The PHAI ensures the protection of people and the environment through a variety of impact reduction measures. These include measures to prevent and suppress dust, reduce noise and manage truck traffic. PHAI staff conducts regular monitoring to confirm the mitigation measures are achieving their intended results. This approach enables the PHAI to prevent, manage and monitor project impacts and adjust and improve mitigation measures as necessary.

The PHAI mitigation strategy draws from three foundational documents – the Environmental Assessment Screening Reports for the Port Hope Project and Port Granby Project; the Legal Agreement between the municipalities of Port Hope and Clarington and the Government of Canada; and the Canadian Nuclear Safety Commission (CNSC) Waste Nuclear Substance licence for each project. These documents identify the mitigation measures and monitoring required of PHAI staff and contractors. The PHAI's monitoring results are regularly reported to the CNSC.



Water truck for dust suppression

To obtain a copy of the overview document, please phone 905.885.0291 or visit the Project Information Exchange.

Upcoming PHAI Events

Port Granby Project

Public Information Session

Wednesday, October 7 – 3:00-8:00 p.m.
Newcastle Town Hall

Port Hope Project

Public Information Session

Wednesday, November 4
Port Hope High School
Check www.phai.ca for details

Port Hope Area Initiative Project Information Exchange

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