



**1. Construction Stages:** The Port Granby Project consists of three distinct construction stages:

Stage 2: A five-year program of waste transfer from the PGWWMF to the Containment Mound at the LTWWMF. In addition to the requirements detailed in the Environmental Protection Plan and the Health and Safety Plan, this stage operates in accordance to the requirements of the Radiation Protection Plan.

Stage 3: Decommissioning of the PGWMP, final site restoration and demobilization.

**2. Project Elements.** The construction of the Port Granby Project include the following elements bundled into three Contracts and sequenced as described

### 3. Stage 1: Contract A

- I. Elliott Road Upgrade.
- II. Fencing of the Work Area.
- III. Elliott Road Parking lot and access areas for WWTP
- IV. North/south stormwater ponds

#### 4. Stage 1: Contract B

- I. Construct new Waste Water Treatment Facility (WWTP). A single combined wastewater treatment facility to treat contaminated runoff and leachate from the new containment mound, both during construction and in the long term, as well as potentially contaminated groundwater intercepted by the proposed East Gorge Groundwater Collector. The sequence of construction is:
  - a. Construct building;
  - b. Construct aeration tanks;
  - c. Install WWTP equipment;
  - d. Electrical / Instrumentation Installation
  - e. Construction of force mains
  - f. Testing / start-up /commission / transition.
  - g. Install Ancillary Buildings and provide utilities for:
- II. Contractor's trailer complex.
- III. Departmental Representatives office.
- IV. Elliott Road Security Kiosk.

### 5. Stage 1: Contract C - This Contract R.023276.217

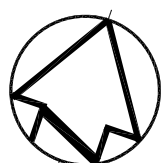
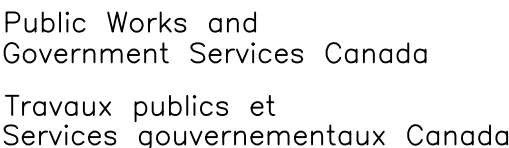
- I. Civil Site Servicing Component:
  - a. Install Ancillary Buildings and provide utilities for:
    - i. Contractor's trailer complex.
    - ii. Departmental Representatives office.
  - iii. Nichols Road Security Kiosk.
  - b. Install fencing and perimeter controls.
  - c. Provision of common utilities: potable and non-potable water, sewage, communications, and outdoor lighting.
  - d. Construct on-site access roadways and haul routes.
  - e. Construction of site parking and staging/laydown areas.
  - f. Installation of force mains on the LTWMF and the PGWMF sites.
  - g. Install common routing for utilities between the PGWMF and the LTWMF.
- II. Stormwater Management Works (LTWMF and PGWMF): includes ditches, swales, and channels, permanent culverts, forcemains, pumping station and stormwater management ponds (LTWMF SWM Pond, LTWMF Equalization Pond and PGWMF SWM Pond ).
- III. Tunnel Construction - Lakeshore Road Upgrade, temporary diversion, and a two-way tunnel and a single lane tunnel under Lakeshore Road.
- IV. Excavate engineered containment mound and installation of the liner at LTWMF in a staged sequence (Excavate Cell 1).

### Stage 2: Contract C

- V. Install additional Ancillary Buildings, and maintain and operate all ancillary buildings and facilities:
  - a. Contractor's trailer complex.
  - b. Departmental Representatives office.
  - c. Elliott Road Main Access and Security Kiosk.
  - d. PGWWMF Main Access and Security Kiosk.
  - e. Trailer complex for workforce lunch room/changing/emergency decontamination and first aid.
  - f. Personnel contamination monitoring facility (portable contamination meters / manual frisking).
  - g. Two wheel wash units.
  - h. Equipment decontamination facility.
  - i. Equipment radioactivity monitoring portals.
  - j. Two weigh scales with kiosk.
  - k. Equipment maintenance and fuel station.
  - l. Materials storage areas.
  - m. SWM pumping stations and buildings.
- VI. Excavate Waste from the PGWWMF and transfer to the containment mound. Key sub-tasks include:
  - a. Existing monitoring well abandonment / decommissioning.
  - b. Selective clearing and grubbing.
  - c. Excavation, transport of waste.
  - d. Backfilling and grading.
  - e. East Gorge Bank Stabilization.
  - f. Re-vegetation by stages.
- VII. Place waste in the containment mound as per specification.
- VIII. Excavate engineered containment mound and installation of the liner at LTWMF in a staged sequence (Excavate Cell 2).
- IX. Place waste in the containment mound (Cell 2).
- X. Construct final cover for the containment mound.
- XI. Construct PGWWMF Groundwater Collection System: The East Gorge Groundwater Collector will be constructed within the area of the East Gorge in phases according to the waste excavation sequence.
- XII. Backfill, grading and re-vegetation by stages.
- XIII. Remediate area 205 of Lakeshore Road and Nichols Road south of Lakeshore Road.
- XIV. Decommission the PG WTP at the end of the construction phase.
- XV. Decommission west gorge reservoir pump station, designated piping and appurtenances.
- XVI. Commission the work.

### Stage 3: Contract C

- XVII. Decommission tunnels and reinstate Lakeshore Road.
- XVIII. De-mobilize from PGWMF including removal of temporary ancillary buildings and utilities.
- XIX. De-mobilize from LTWMF including removal of temporary ancillary buildings and utilities.
- XX. Final Grading and Landscaping. Restore the PGWMF and the LTWMF based upon the final use plan.



04		
03	TENDER ADDENDUM No. 1	2014/10/01
02	REISSUED FOR TENDER	2014/09/16
01	ISSUED FOR TENDER	2013/06/28
revision		date

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project title  
titre du projet

**PORT GRANBY, ONTARIO**  
PORT HOPE AREA INITIATIVE

PORT GRANBY PROJECT  
LTWMF CONSTRUCTION AND  
PGWMF REMEDIATION

drawing title  
titre du dessin

CONSTRUCTION SEQUENCE

drawn by  
dessine par J.P.

designed by  
conc par S.J.K.

approved by  
approuvé par **B.G.**

bid project manager  
offre administrateur  
J.A., P.ENG. de projets

project date date du projet	2013-07-15
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project no.  
no. du projet

R.023276.217

WT-G-05