

Port Hope Area Initiative Project Update

Durham Nuclear Health Committee
November 19, 2021

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Port Granby Storage Mound Complete – September 2021



September 2021

Port Granby Waste Removal Complete – November 2020

Remediation of ~1.3 tonnes LLRW



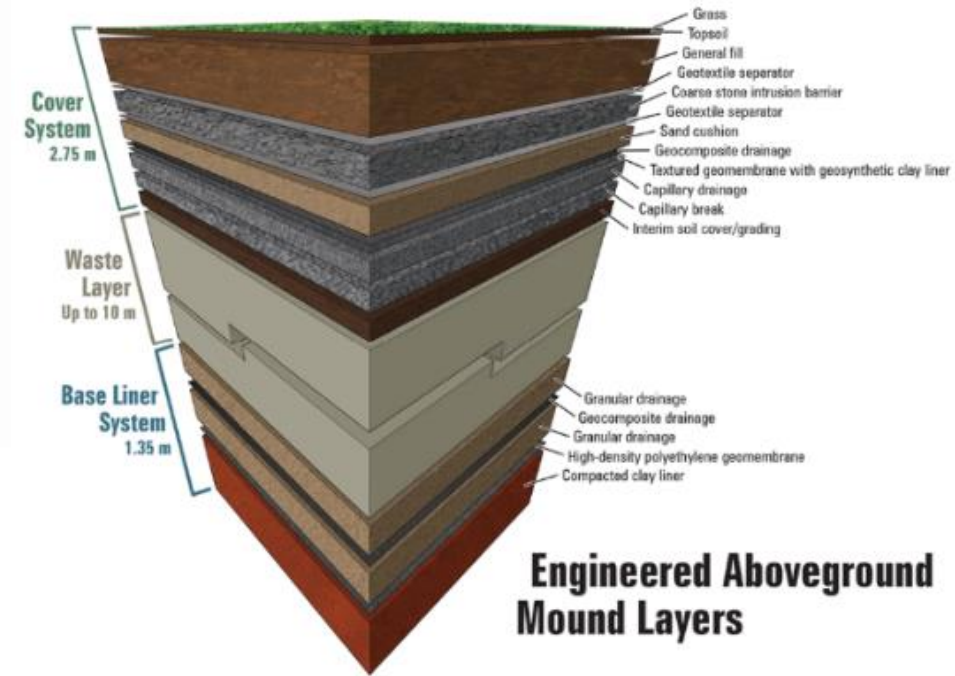
Former Waste Management Site



Port Granby Project Long-Term Waste Management Facility



Port Granby Mound – Cap & Close



Port Granby Water Management

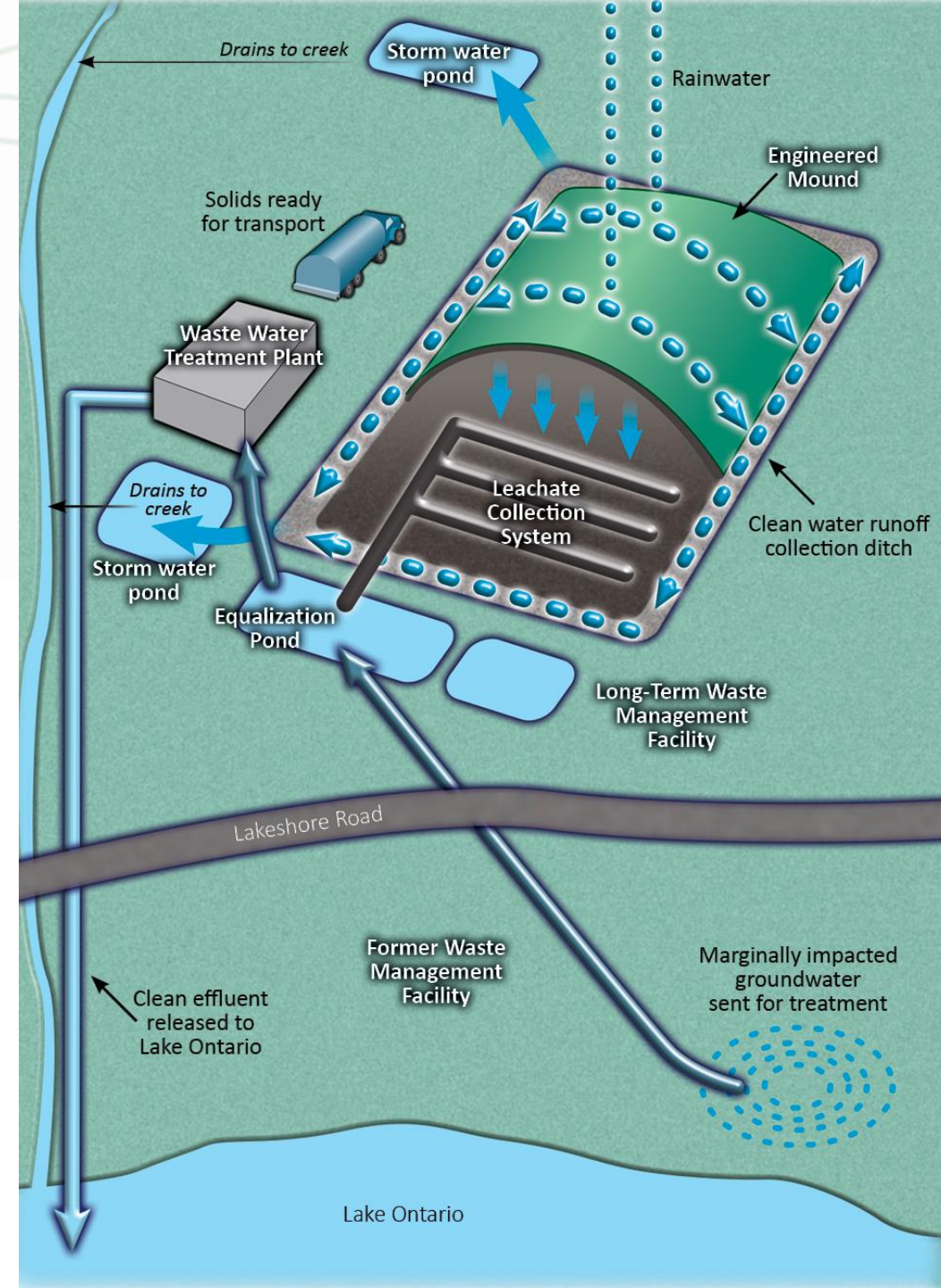
- Port Granby Project Waste Water Treatment Plant treats impacted groundwater, surface water, mound leachate, marginally impacted groundwater from former site
- Storage mound diverts clean water (rain/snow) to perimeter ditches, into storm water ponds before discharge off site

CNSC Licence Amendment 2019

- Reflects release limits of treated water
- Confirms removal of broad list of nuclear/hazardous substances, meeting requirements for discharge to Lake Ontario - enhanced protection of Great Lakes Basin ecosystem

Processing to Date

- ~ 768,000 m³ clean water released to Lake Ontario
- ~ 2,855,000 kg solids to safe, long-term storage



Port Granby Water Management

Onsite Water Storage

- Eight large tanks effective in addressing water challenges – one remaining

Transporting Waste Water

- Small volumes of Port Granby Waste Water Treatment Plant residual waste (liquid brine/solids)
- Safely transported to Port Hope Project Waste Water Treatment Plant
- Compliant with all regulatory requirements

East Gorge Groundwater Treatment



- Long-term collection system at former site: treats migrating, marginally contaminated groundwater
- Continue operation, regular monitoring until groundwater flow reaches background levels (likely several decades)
- Pumps water to plant for treatment, testing before release to Lake Ontario



Removal of Site Infrastructure

- Lakeshore Road realignment
- Removal of infrastructure, internal roads
- Removal of Lakeshore underpass
- Contractor demobilization



Port Granby Phase 3 - Long-Term Monitoring



Waste Water Treatment

- East Gorge groundwater collection
- Port Granby Project Waste Water Treatment Plant: storage mound leachate, East Gorge groundwater collection
- Plant output safely transported - licensed, offsite storage



Environmental Monitoring

- Air, water, groundwater, soil, plants, wildlife monitoring continues



Long-Term Waste Management Facility Monitoring

- Site remains fenced
- Mound surface, internal sensors monitored
- Grounds monitored, maintained



Continued Safety Oversight

- Plans in place to ensure any event is properly managed
- Minimize risk to people, environment

After the Port Granby Project is Complete



PHAI Indigenous Engagement

Communities and Organizations

- Alderville First Nation
- Curve Lake First Nation
- Hiawatha First Nation
- Mississaugas of Scugog Island First Nation
- Anishinabek Nation
- Chippewas of the Williams Treaties
- Mohawks of the Bay of Quinte
- Métis Nation of Ontario, local Métis Councils

Engagement

- Williams Treaties First Nations monthly meetings
- Ongoing information sharing/project updates
- Engagement meetings, virtual tours
- Newsletters, bulletins, event invitations, disclosures
- Observation and demonstration opportunities
- Archaeological protocol



Indigenous Engagement sessions



Indigenous archaeological land visit

PHAI Engagement

Recent Engagement

- Port Granby Project Annual Update: Municipality of Clarington Council
- PHAI Overview: Ontario Tech University Nuclear Engineering students
- PHAI Overview: Mississaugas of Scugog Island First Nation
- Williams Treaties First Nations monthly meeting
- PHAI Cleanup Criteria Amendment Application: Public Information Session
- PHAI overview: Northumberland Hills Association of Realtors
- PHAI overview: Durham Regional Association of Realtors
- PHAI overview: Ontario Minister of Environment, Conservation & Parks
- PHAI overview: Durham Region Nuclear Strategy Working Group

Upcoming Engagement

- PHAI tour - Cheryl Gallant, MP Renfrew—Nipissing—Pembroke
- PHAI Project Update: CNSC Regulatory Oversight Review
- PHAI overview: Toronto Regional Real Estate Board



Thank You

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