



Port Hope Area Initiative: Challenges and Successes

Long-Term Stewardship Conference

2018 August 22



Canadian Nuclear Laboratories | Laboratoires Nucléaires Canadiens

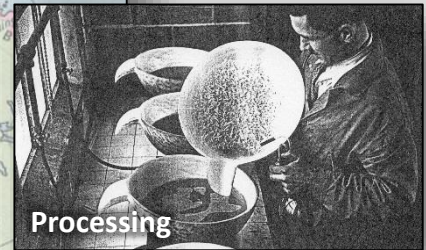
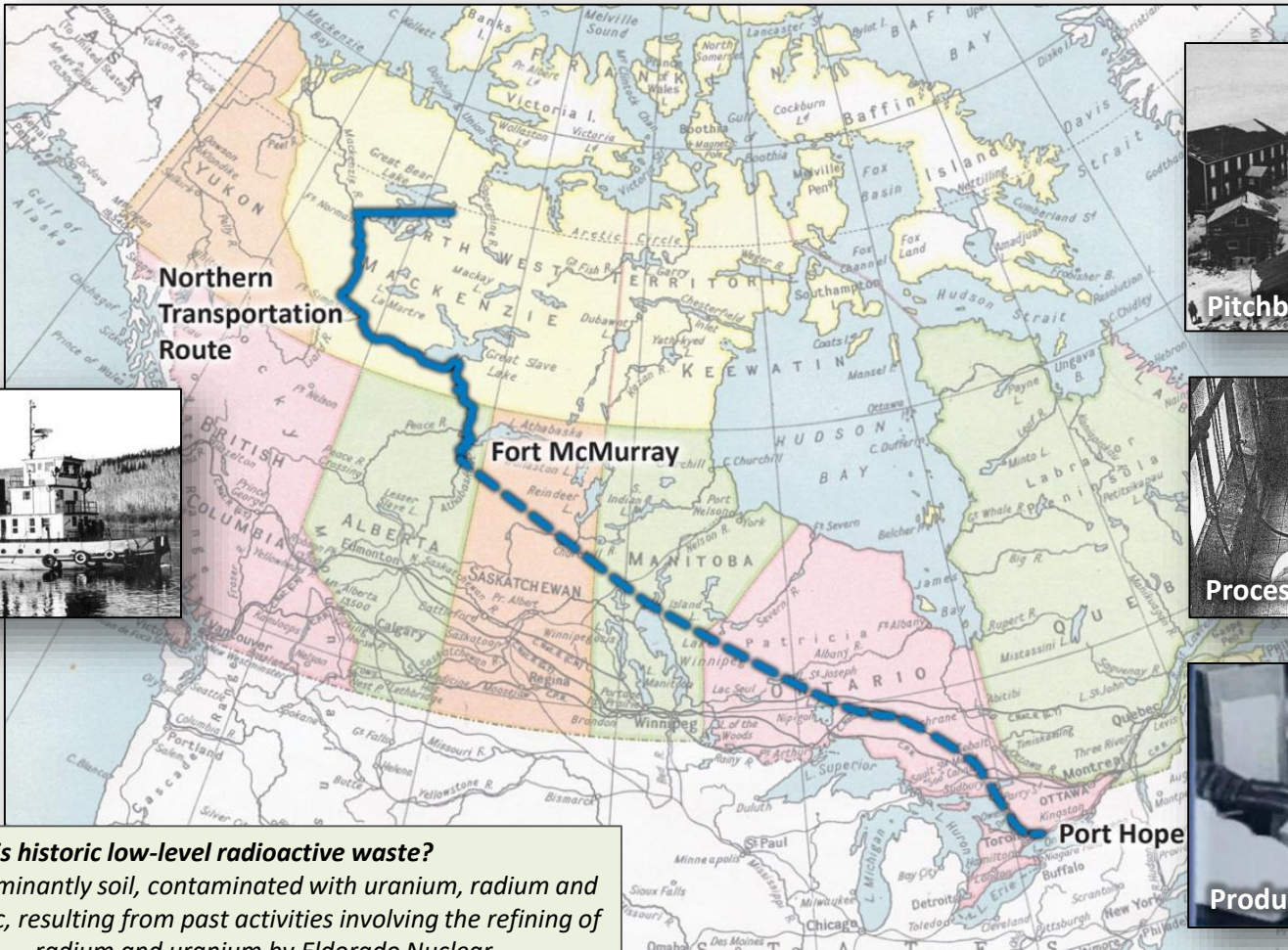
Port Hope Area Initiative

One Initiative, Two Projects

- Canada's commitment to clean up and safely manage historic low-level radioactive waste from former Canadian Crown Corporation, Eldorado Nuclear Limited (1933-88)
- Federal funding of \$1.28 billion
- One initiative, two projects – Port Hope Project and Port Granby Project
- Committed to completing the projects safely, while minimizing community impact
- Will result in significant environmental benefits



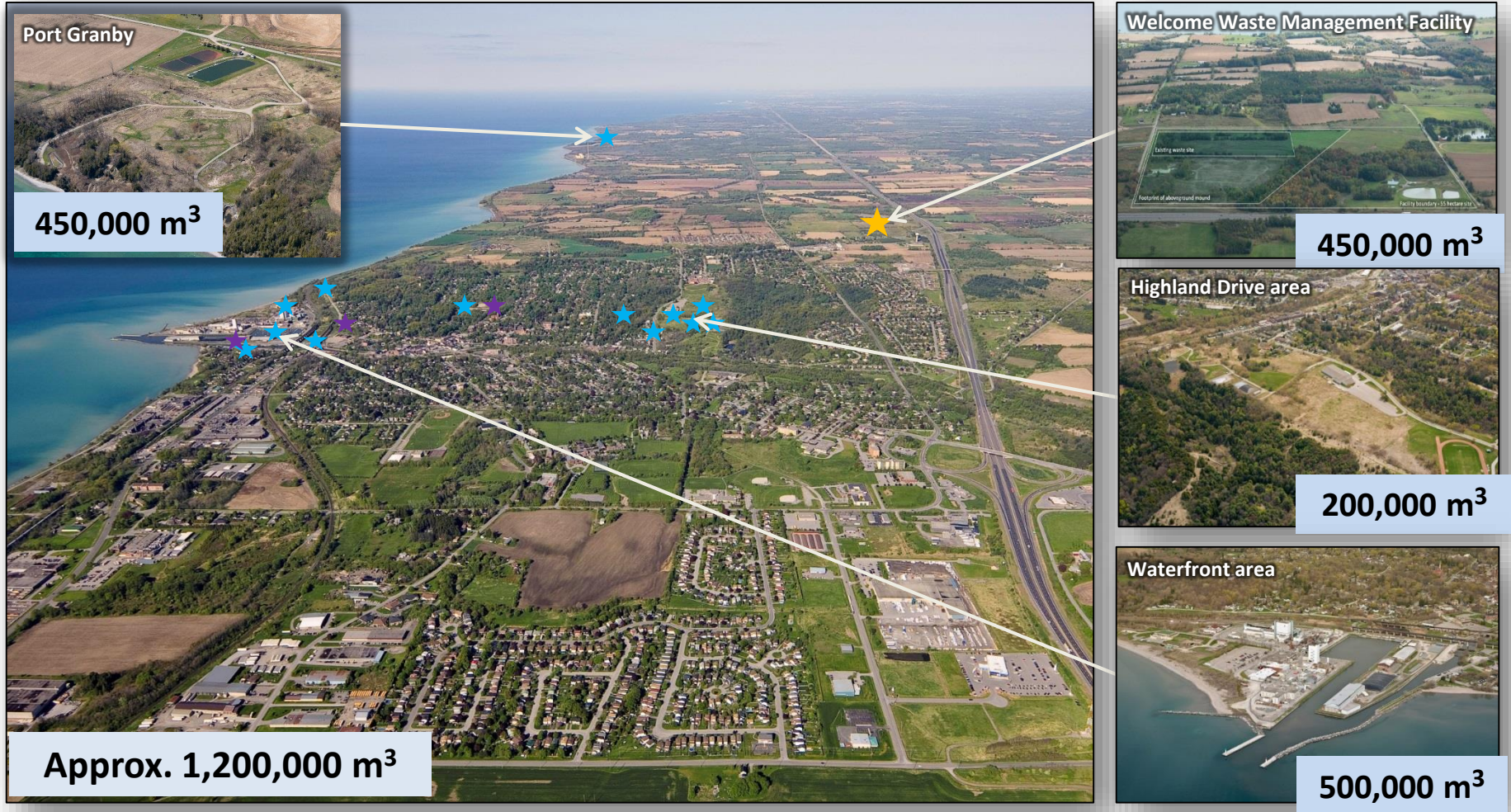
Low-Level Radioactive Waste in Port Hope



What is historic low-level radioactive waste?
Predominantly soil, contaminated with uranium, radium and arsenic, resulting from past activities involving the refining of radium and uranium by Eldorado Nuclear



Port Hope Project



PHP Long-Term Waste Management Facility



Port Hope Project Long-Term Waste Management Facility

Site Progress (2010-2018)

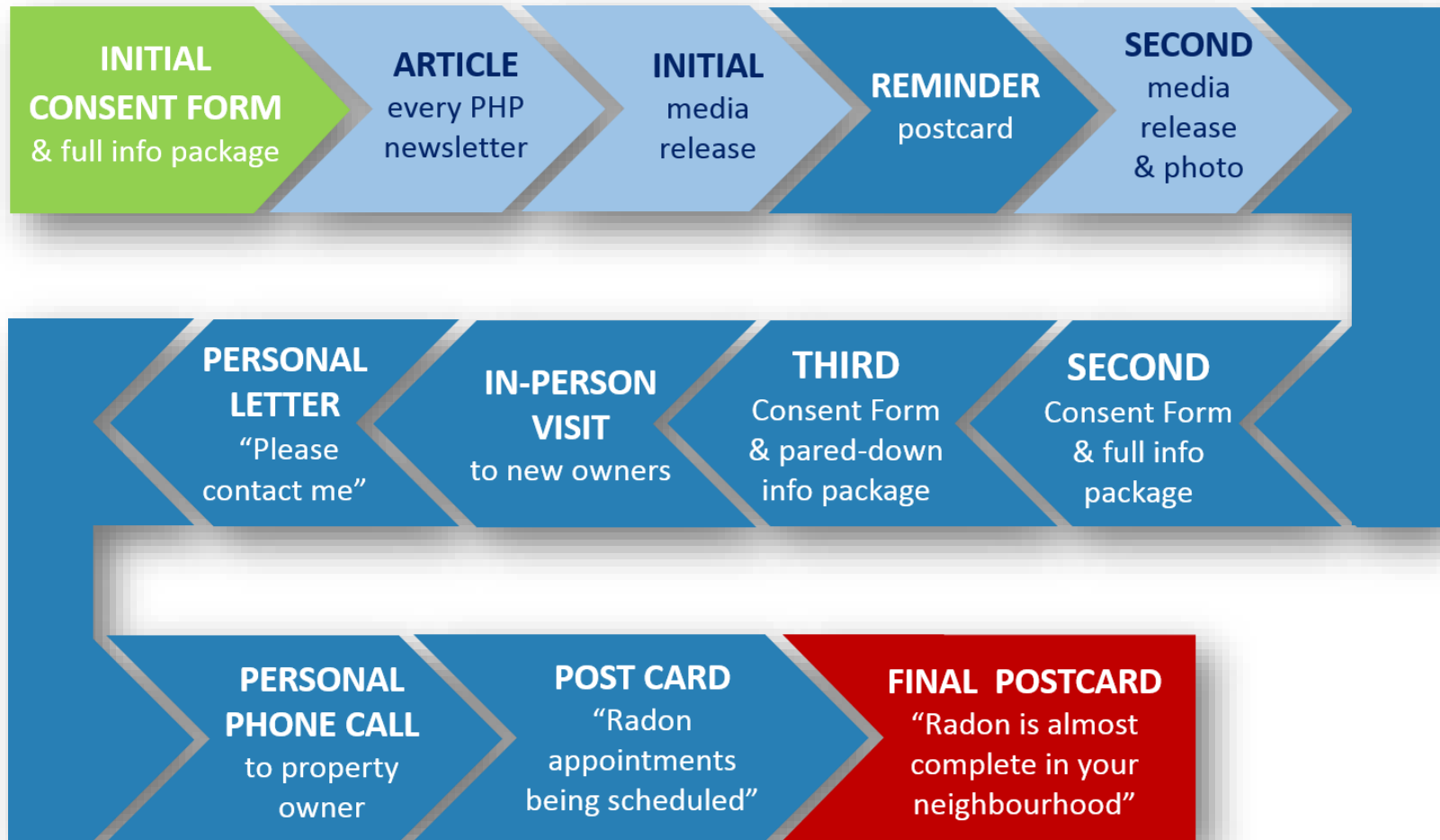


Small-Scale Sites: Radiological Survey



Overcoming Challenges

Confirming Consent from Reluctant Property Owners



Long-Term Monitoring/Community End Use



Port Granby Project LTWMF



Port Granby Project Site Progress

(2010-2018)



Overcoming Challenges

On-site Water Management

- Updated contingency management plan
- Additional water-storage capacity (lake tanks, baker tanks for emergency use)
- Diversion berms constructed to redirect clean storm water away from remediation areas
- Use of portable water treatment system



Long-Term Monitoring/Community End Use



Health & Safety, Security, Environment & Quality



Health & Safety Programs

- Site/worker/contractor safety programs
- First Responder training/drills



Security Programs

- Personnel security clearances – CNL and contractors – to ensure reliability
- Site-specific security plan – contractors: site access control, security program, procedures to inform CNL of any security issues



Environmental Protection Programs

- Compliance with federal/provincial requirements
- Robust environmental monitoring and protection plans



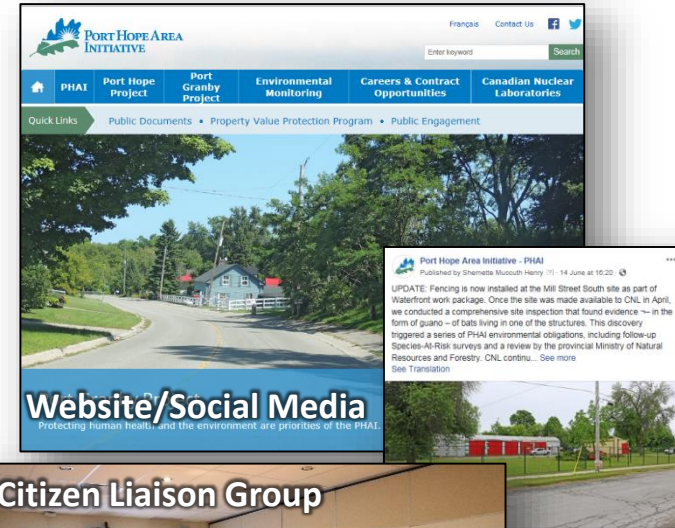
Quality Assurance Programs

- Support licensing requirements
- Review & approval: process/timing expectations - promote continuous improvement



Public Information Program

- Commitment under Legal Agreement, Environmental Assessments and CNSC licences
- Provides accurate, timely and consistent information to the public
- Promotes awareness, understanding and confidence





Thank You

Questions?



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