

MANAGEMENT ORGANIZATION SOCIÉTÉ DE GESTION DES DÉCHETS NUCLÉAIRES

Long-term Management of Canada's Used Nuclear Fuel: Progress Update

Presented to:

Ontario Power Generation: Pickering Community Advisory Council

Presented by:

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Overview

- Triennial report published
- Working collaboratively with communities to advance site selection
- The project will only proceed with the involvement of the interested community, First Nation and Métis communities in the area, and surrounding communities, working in partnership to implement it
- Drilling of initial boreholes may begin Summer 2017









Triennial Report 2014 to 2016

Triennial Report 2014 to 2016

 Submitted Progress Through Collaboration – Triennial Report 2014 to 2016 to the Honourable James Gordon Carr, Minister of Natural Resources



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Status of the Site Selection Process



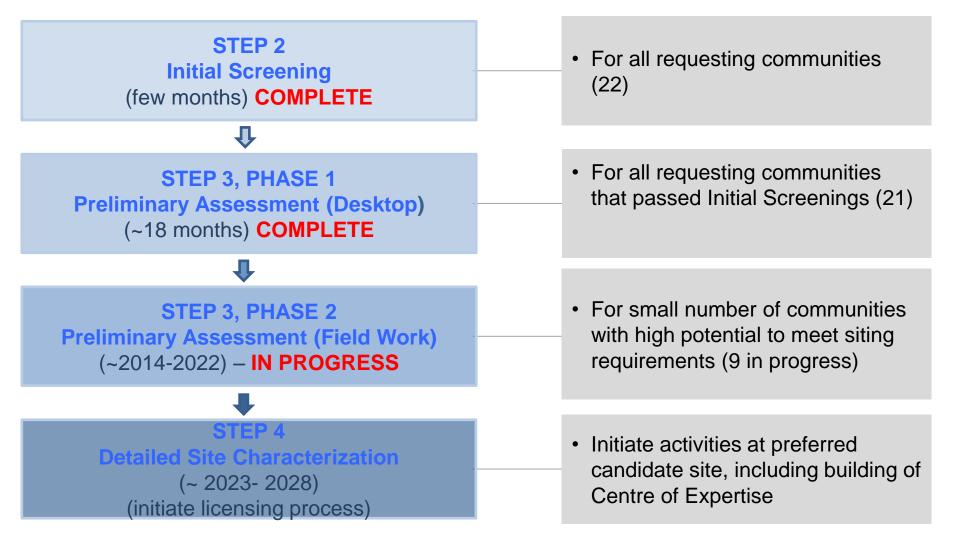




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Multiple Stages of Assessment and Dialogue



Timelines are illustrative, to guide planning. Actual timelines may vary.



Objective of Phase 2 Assessments of Sites:

To develop confidence on selection of a preferred location to take into detailed site characterization

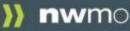
Safety	Confidence a deep geological repository can be developed with strong safety case at that location
Transportation	Confidence a safe, secure and socially acceptable transportation plan can be developed
Partnership	Confidence a strong partnership can be developed – with interested community, First Nation and Métis communities in the area, and surrounding communities



Engagement

- Community driven to explore learning, guide field studies and build partnership
- Ongoing engagement with municipalities and Aboriginal communities in potential siting areas
- Expanded regional engagement





Working With Communities





2017 Engagement on Transportation

 September 2016, NWMO published discussion document to support ongoing public learning and conversations about APM transportation and development of a planning framework





Technical Studies



Phase 2 Field Studies – Approach varies with the geological setting

Northern Ontario – Crystalline Rock	Southern Ontario – Sedimentary Rock	
 Initial General Field Studies Airborne geophysical surveys Observing geological features Detailed geological field mapping and, environment surveys 	 Initial General Field Studies Initial borehole drilling to advance understanding of the general geology Borehole locations not expected to be repository sites 	
Review findings with communities. NWMO further narrows study areas to those with strongest potential.		
 Repository-Scale Field Studies Borehole drilling and testing focused on potential repository sites Environment studies 	 Repository-Scale Field Studies Borehole drilling and testing focused on potential repository sites Seismic reflection surveys and mapping Environment studies 	

Field studies will be planned and implemented in collaboration with communities.



Approach for Initial Borehole Drilling in Northern Ontario

- Drill initial boreholes at or near a potential repository site to further advance understanding of geology
- Select a preferred location for initial borehole drilling based on integration of technical studies and input from people in the area





Interweaving Indigenous Knowledge

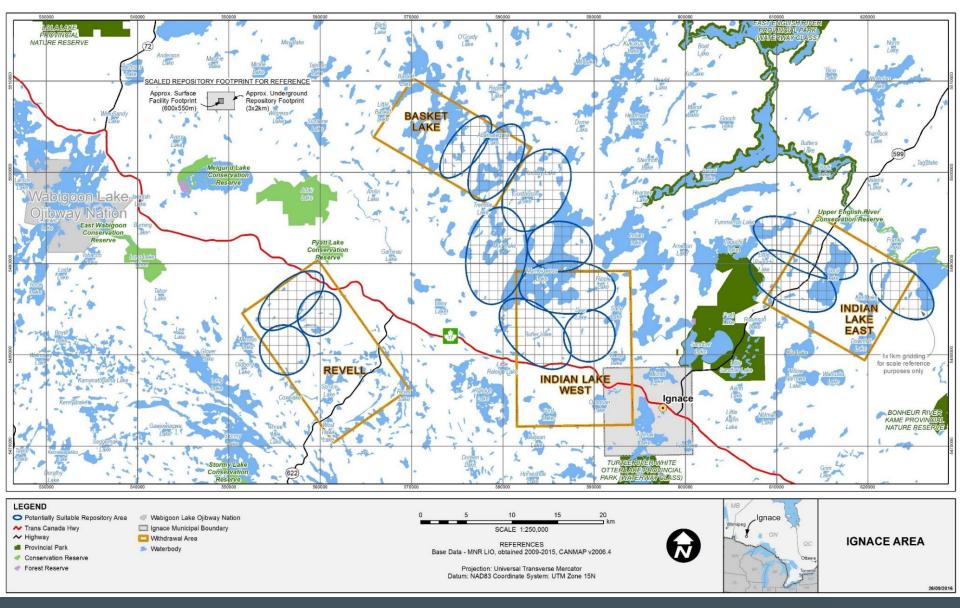
- Traditional Knowledge
- Land use and occupancy
- Ceremony
- Asserted and Established Aboriginal and Treaty rights
- Trap lines

Indigenous intellectual property is protected as agreed with the people who choose to share that knowledge

NWMO Aboriginal Policy and Indigenous Knowledge Policy

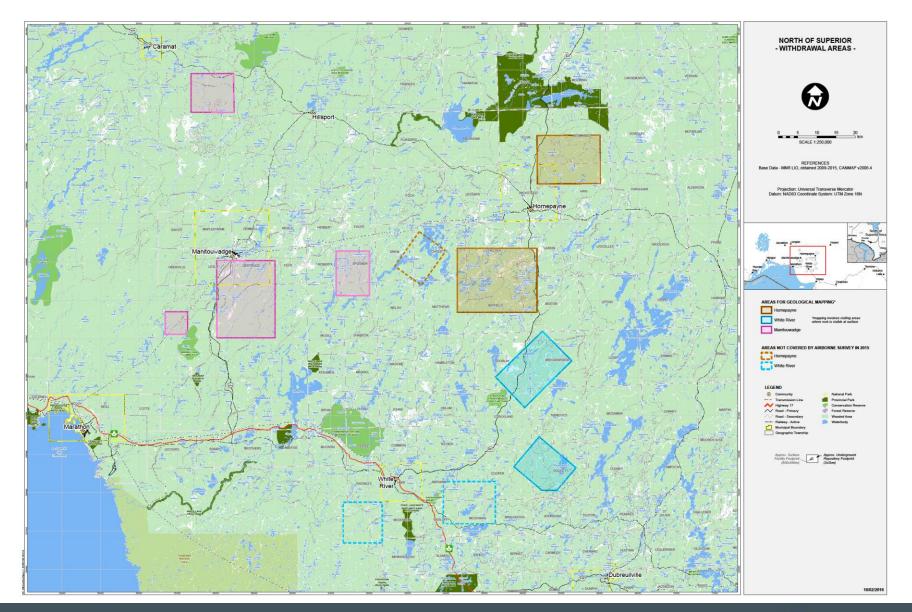


Areas Near Ignace discussed with people in the area



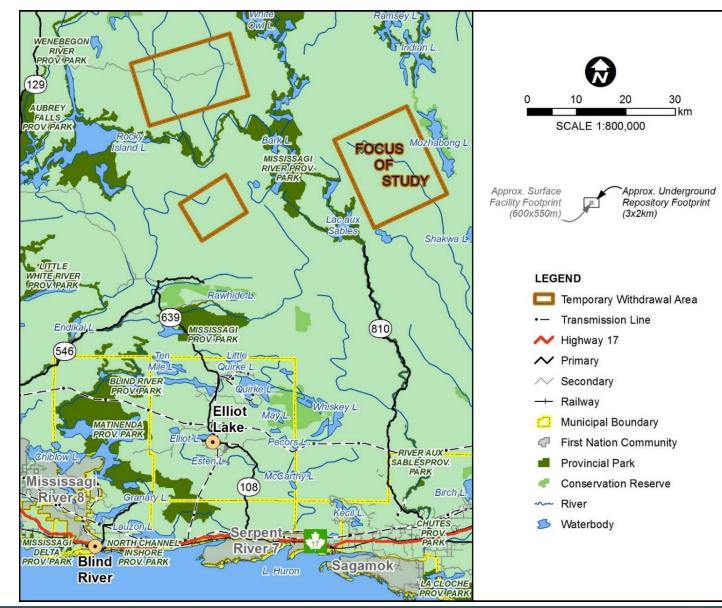


Areas Near Hornepayne, Manitouwadge and White River





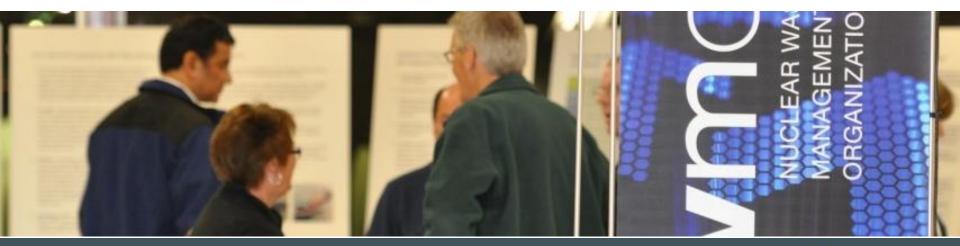
Areas Near Elliot Lake and Blind River





Southern Ontario

- Municipally owned land parcels are being reviewed for their suitability for initial research borehole
- Initial borehole is for research purposes only and is not expected to be a repository site





Next Steps

- Continue to advance field studies
- Work to develop a supportive partnership in siting areas involving interested community, First Nations and Métis communities in the area
- Continue to narrow down the number of study areas through ongoing stock-taking of assessment findings
- Advance development of planning framework for transportation



Questions

