CMD 22-H7.1G

File / dossier : 6.01.07 Date: 2023-07-31 e-Doc: 7096642

Presentation from the Canadian Nuclear Laboratories

Présentation des Laboratoires Nucléaires Canadiens

In the Matter of the

À l'égard des

Canadian Nuclear Laboratories, Chalk River Laboratories

Application to amend its Chalk River Laboratories site licence to authorize the construction of a near surface disposal facility

Laboratoires Nucléaires Canadiens, Laboratoires de Chalk River

Demande visant à modifier le permis du site des Laboratoires de Chalk River pour autoriser la construction d'une installation de gestion des déchets près de la surface

Commission Public Hearing Part 2 Audience publique de la Commission Partie 2

May 30 to June 3, 2022 August 10, 2023 30 mai au 3 juin 2022 10 août 2023





We would like to acknowledge

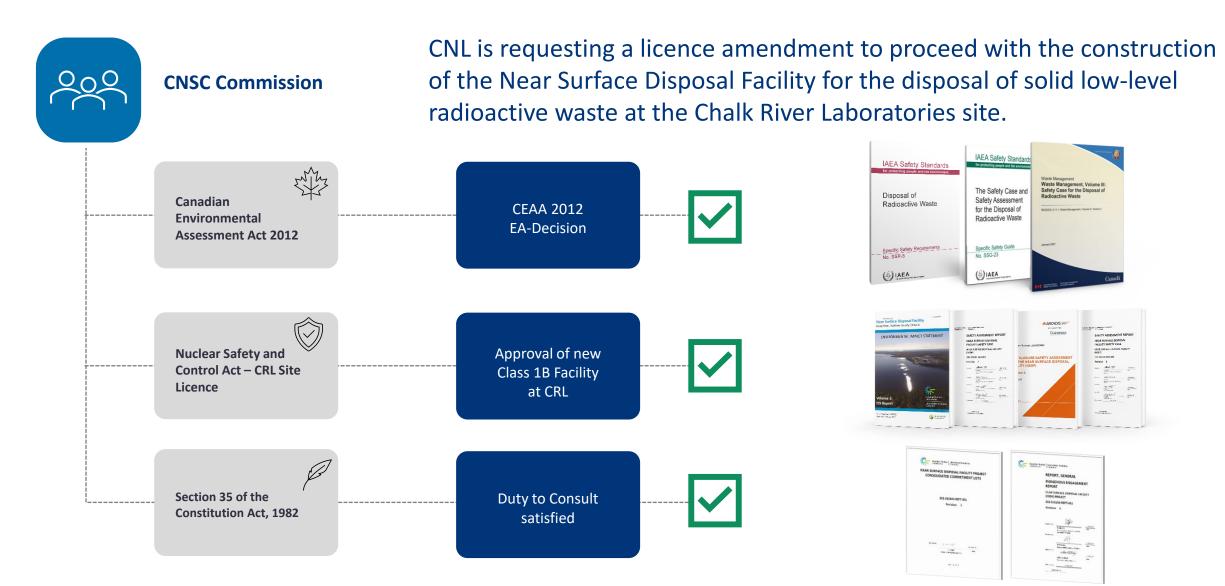
The Chalk River Laboratories site is located on the unceded and unsurrendered territory of the Algonquin Anishnaabe people. As an organization, CNL recognizes and appreciates their historic connection to this place. CNL also recognizes the contributions that First Nations, Métis, Inuit and other Indigenous peoples have made, both in shaping and strengthening this community in particular, and this province and country as a whole.



Near Surface Disposal Facility Project

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Indigenous Nations and communities that have established or asserted treaty and/or Aboriginal rights:

- Algonquins of Pikwàkanagàn First Nation
- Algonquins of Barriere Lake First Nation
- Timiskaming First Nation
- Wolf Lake First Nation
- Métis Nation of Ontario
- Kitigan Zibi Anishinabeg First Nation
- Kebaowek First Nation
- Williams Treaties First Nations
 - Alderville First Nation
 - Beausoleil First Nation
 - Georgina Island First Nation
 - Rama First Nation
 - Curve Lake First Nation
 - Hiawatha First Nation
 - Scugog Island First Nation

Indigenous Nations, communities and organizations that have interests:

- Algonquin Anishinabeg Nation Tribal Council
- Algonquins of Ontario
- Anishinabek Nation

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- Algonquin Nation Secretariat
- Mohawks of the Bay of Quinte

CNL is committed to working in collaboration with local and interested Indigenous Nations, communities and organizations.











NSDF is the Right Thing to Do

CNL has listened and made changes to the project
NSDF will enable remediation of the Chalk River Laboratories
NSDF is protective of the environment and the Ottawa River
NSDF is protective of human health

CNL has the **people** and **experience** to safely execute the project



Public Key **Concerns Raised** during Engagements



Justification for the Project

Waste inventory

Design & engineering

Long-term monitoring & accountability

Alternative means assessment

Environmental events

Protection of the Ottawa River

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Active listening, learning & engagement

Indigenous Engagement



Incorporation of Traditional Knowledge



True collaborations



Procedural Direction – What We Heard

Terrestrial biodiversity



Water quality



Forest Management



Sites of cultural importance



Asserted rights from CRL site operations

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CNL is committed to ongoing and tailored engagements specific to community preferences.

ROC - HOU



Waste Inventory





Low-level waste is suitable for disposal in an engineered near surface facility Waste from only Canadian sources – mostly includes large volumes of contaminated soils and demolition debris





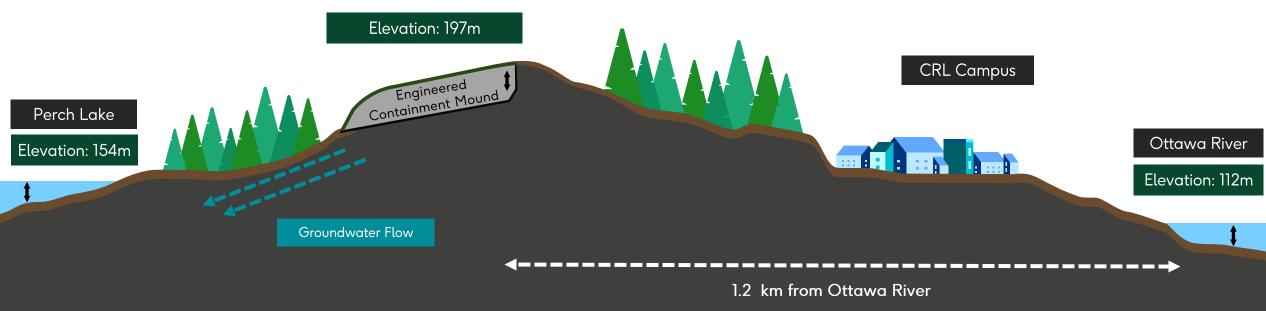


All waste – including legacy waste – is characterized using modern waste characterization approaches and standards

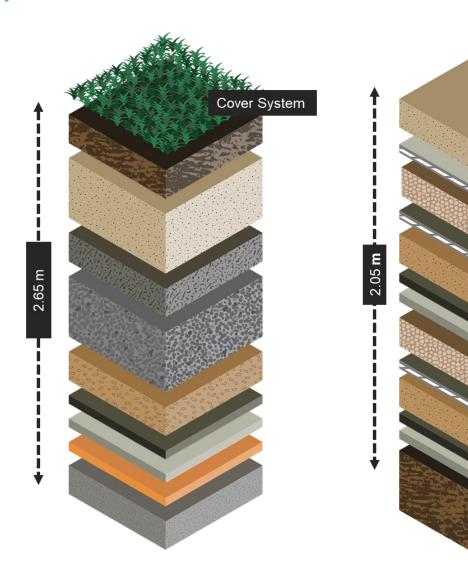
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The Site Is Appropriate

- Alternative means assessment included site selection process
- Sited on a bedrock ridge sloping away from Ottawa River
- Elevation well above the worst case flood levels
- Extensive site characterization performed









- Based on international best practices
- Multiple layers of natural and synthetic barriers design to work together
- Rigorous testing demonstrates design life will be exceeded
- Containment and isolation of waste for more than 550 years
- Passive safety features which also serve multiple safety functions

Base Liner System

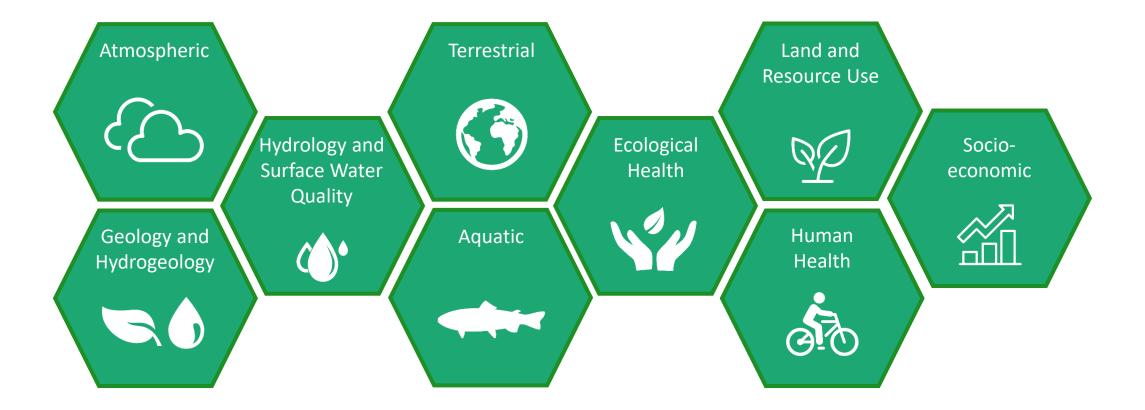


The proposed project will enhance the level of protection of the Ottawa River.



Comprehensive Environmental Assessment

Radiological and non-radiological effects are considered for all phases of the project for the following disciplines





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Wildlife and Habitat Management









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NSDF Environmental Assessment Follow-up Monitoring

Effluent, Environment, Groundwater Programs

Received public, stakeholder and Indigenous feedback on draft plan

To biscussions have started on Indigenous involvement in monitoring



CNL's construction process provides the framework to ensure adequate control and documentation within approved safety margins and regulatory or statutory requirements.







CNL is held accountable

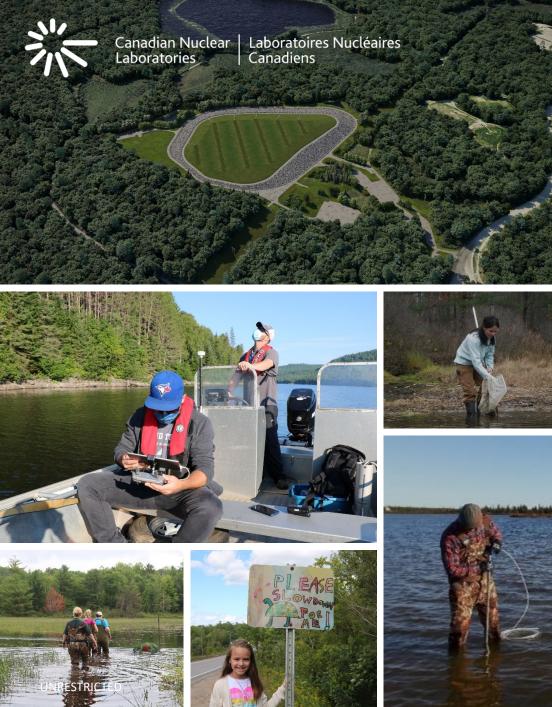


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Our commitments

- We apply modern waste management standards and technologies to reduce risks associated with radioactive wastes.
- We continue to engage with the public and Indigenous peoples and proactively address concerns.
- We ensure the protection of human health and the environment during every phase of the project.
- We carry out periodic reviews and updates of the safety case through all licensing stages.



Overall Conclusions

The proposed NSDF Project meets the requirements of the Canadian Environmental Assessment Act 2012 and is not likely to cause significant adverse environmental effects with the identified mitigations.



The NSDF meets the requirements of the Nuclear Safety and Control Act and all applicable regulations.



Engagement with Indigenous Nations, communities and organizations has been robust and meaningful, and has progressed significantly through the course of these proceedings to satisfy the Crown's duty to consult.



Meegwetch. Thank you. Merci.



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