

Near Surface Disposal Facility

a safe solution

1 Why?



The Near Surface Disposal Facility enables the transformation of Chalk River Laboratories into a world class centre for science and technology by creating a **safe and permanent disposal** for wastes from more than 65 years of historical operations and the enduring mission of innovative research.

2 What?

The Near Surface Disposal Facility would be an engineered containment mound to safely dispose of low-level waste in **10 separate cells**, which are covered as each disposal cell is filled.



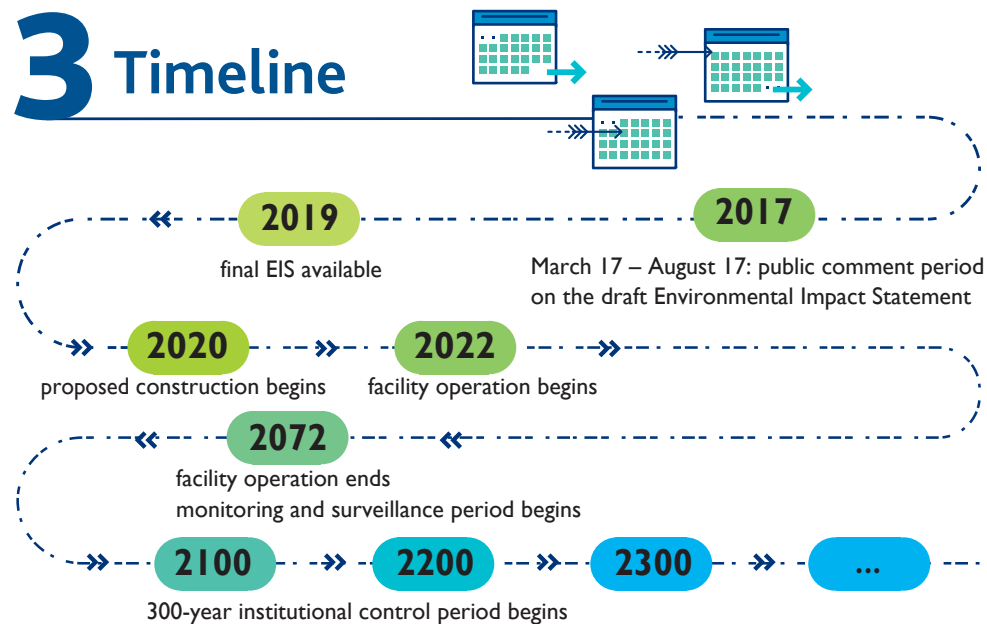
ENGINEERED CONTAINMENT MOUND



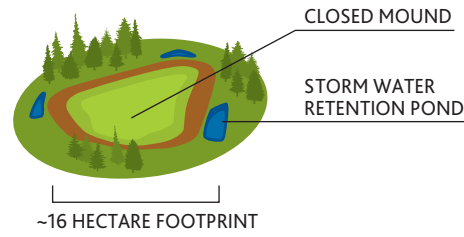
WASTE WATER TREATMENT PLANT
Removes contaminants

- 10 disposal cells
 - Total capacity: 1 million cubic metres
- Precipitation that contacts the waste during operations is continuously removed and treated via the waste water treatment plant.

3 Timeline



4 What will the Near Surface Disposal Facility look like?

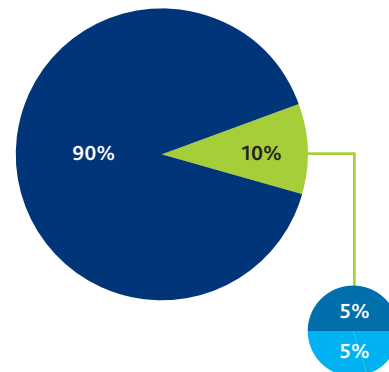


The approximate footprint of the closed mound: **16 hectares**, completely located within CNL's 4,000 hectare site.

The mound will not be visible from the Ottawa River. Following closure, the mound will resemble a grassy hill.



5 What will go in it?



- **90%*** waste from Chalk River Laboratories – past, present and future
 - **5%*** waste from decommissioning at Whiteshell Laboratories in Manitoba and other federal nuclear liabilities
 - **5%** from other Canadian sources, such as universities and hospitals
- * Responsibility of the Government of Canada

6 Waste Acceptance Criteria

The Near Surface Disposal Facility has strict criteria that set limits on physical, chemical and radiological characteristics of the waste. **Waste that does not meet the criteria will not be accepted**



7 A safe solution



- ✓ Proven technology
- 🌱 Built to protect people and the environment even in the case of a disruptive event, like an earthquake
- 🔍 Canada's nuclear regulator and other federal agencies set regulations and provide oversight
- 🌍 Designed with Canadian and International expertise, operated by our staff who live and work in the Ottawa Valley

8 An important conversation

- Social media
- Public Information Sessions
- Site tours
- Community events
- Newsletters
- Website
- What?
- Where?
- Why?
- When?

CNL engages with local communities and Indigenous groups to **provide valuable input** into the project.

9 How can I learn more? Ask us

- 📱 @CanadianNuclearLaboratories
- 📧 communications@cnl.ca
- 📞 1-800-364-6989
- 🐦 @CNL_LNC
- 🖱️ www.cnl.ca/NSDF

10 How do I get involved?



- Participate in the Environmental Assessment process by sharing your thoughts on the Environmental Impact Statement www.cnl.ca/nsdf-eis
- Join us at one of our Public Information Sessions www.cnl.ca