

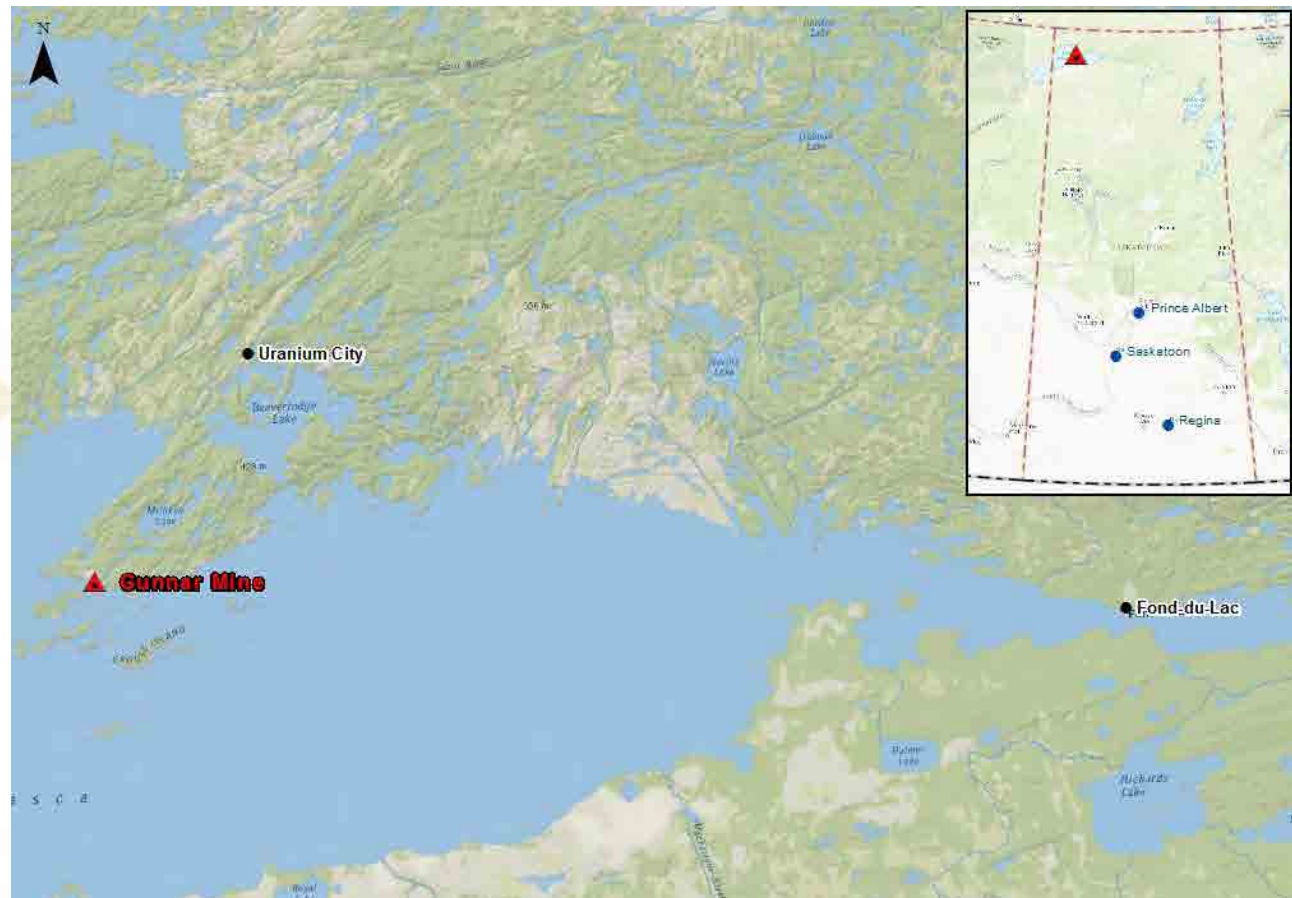
Gunnar Other Site Aspects

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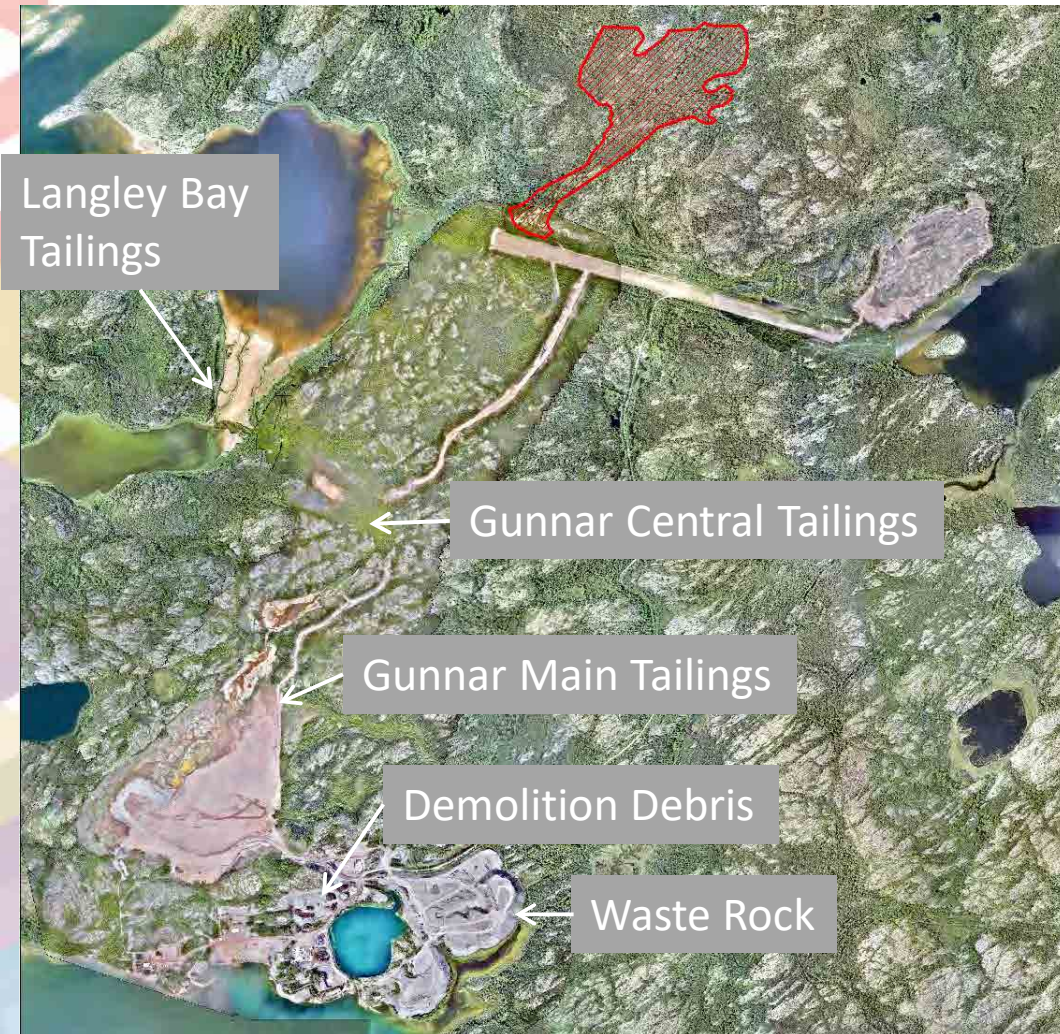
Site Location and History

- The site is located 25 km south of Uranium City, on Lake Athabasca
- Discovered in 1952
- Open pit and Underground Mine, Uranium Mill, Town Site
- Closed in 1964



Environmental Legacy

- 3 Tailings areas as a result of milling operations
- 2 Waste rock piles
- Residual impacts from milling facility
- All mine and mill buildings



“Other Site Aspects”

1. Non-contaminated demolition debris and asbestos containing material
2. Contaminated and hazardous material
3. Waste Rock
4. General Site
 - Gamma Impacted
 - Mine Openings
5. Open Pit



Other Site Aspects Project Objectives

1. Consolidate and Dispose of Non-Hazardous Demolition Debris
2. Consolidate and Dispose of Hazardous Rock/Soil/Waste
3. Stabilize Waste Rock Slopes
4. Reduce Gamma Exposure
5. Minimize Contaminant Loadings to Zeemel Bay and St. Mary's Channel

Prior to Demolition



Buildings and Structures

Gunnar Pit

Waste Rock Piles

Completed Project Milestones

- 2015
 - Tailings and Other Site Aspects separated
 - Preliminary Remediation Design Report
- 2016
 - Stakeholder Workshops
 - Updated Preliminary Remediation Design Report
 - Commission Hearing with the Canadian Nuclear Safety Commission and successful removal of Phase II Hold Point
- 2017
 - Completed of part 1 of procurement to identify successful proponents for the upcoming part 2 stage
 - Borrow Material confirmation
 - Detailed Remediation Design Report
- 2018
 - Currently conducting part 2 of the procurement process to identify successful Contractor
 - Detailed Remediation Design Report

Design Components

1. Consolidate debris and waste into Landfill A and Landfill B
2. Regrade and cover Waste Rock Piles and general site
3. Permanently close 3 mine openings
4. Monitor the Open Pit

1. Consolidate debris and waste into Landfill A&B



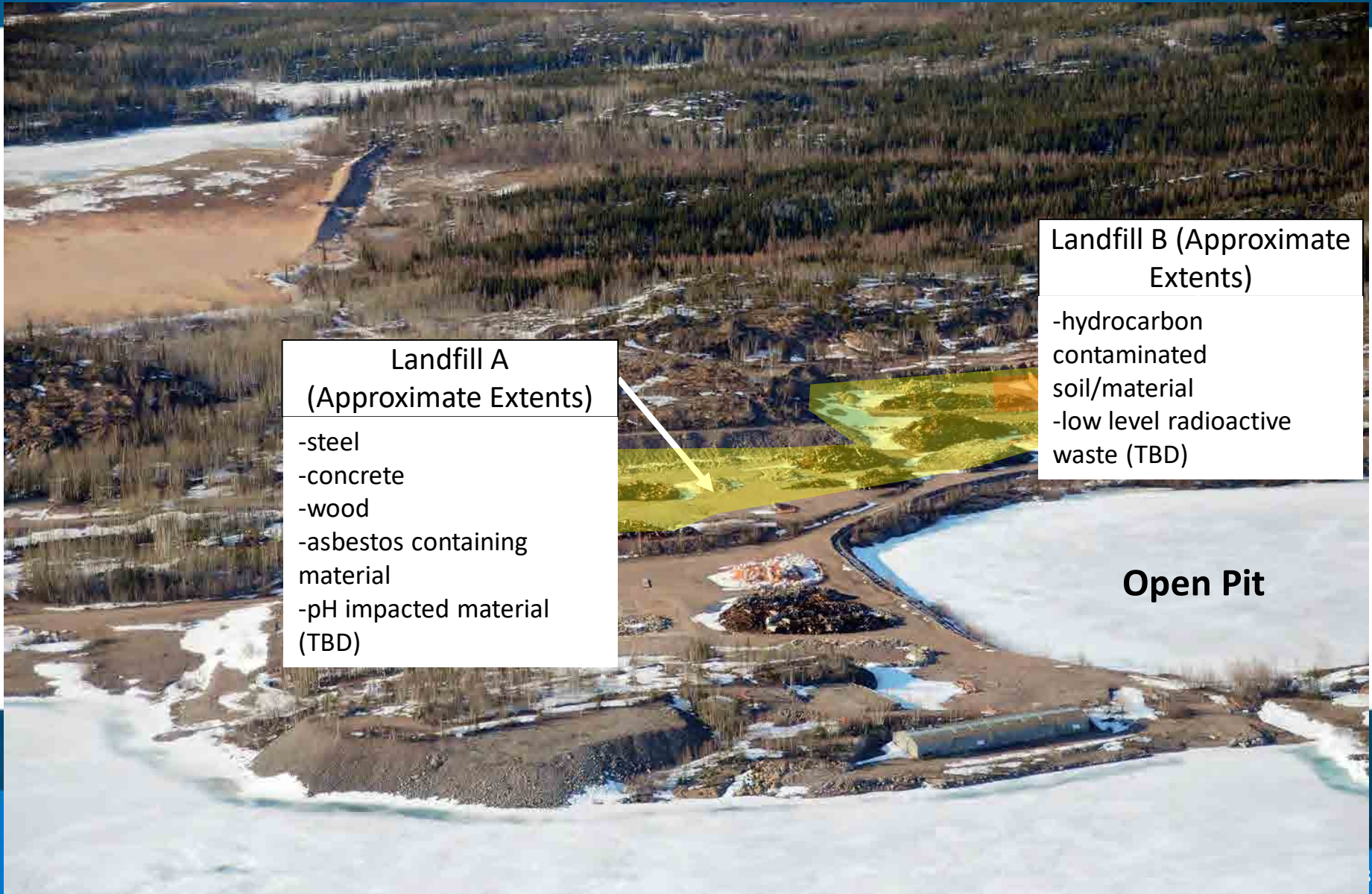
1. Consolidate debris and waste into Landfill A&B



Low level radioactive waste

pH Impact
Material

1. Consolidate debris and waste into Landfill A&B



Landfill A (Approximate Extents)

- steel
- concrete
- wood
- asbestos containing material
- pH impacted material (TBD)

Landfill B (Approximate Extents)

- hydrocarbon contaminated soil/material
- low level radioactive waste (TBD)

Open Pit

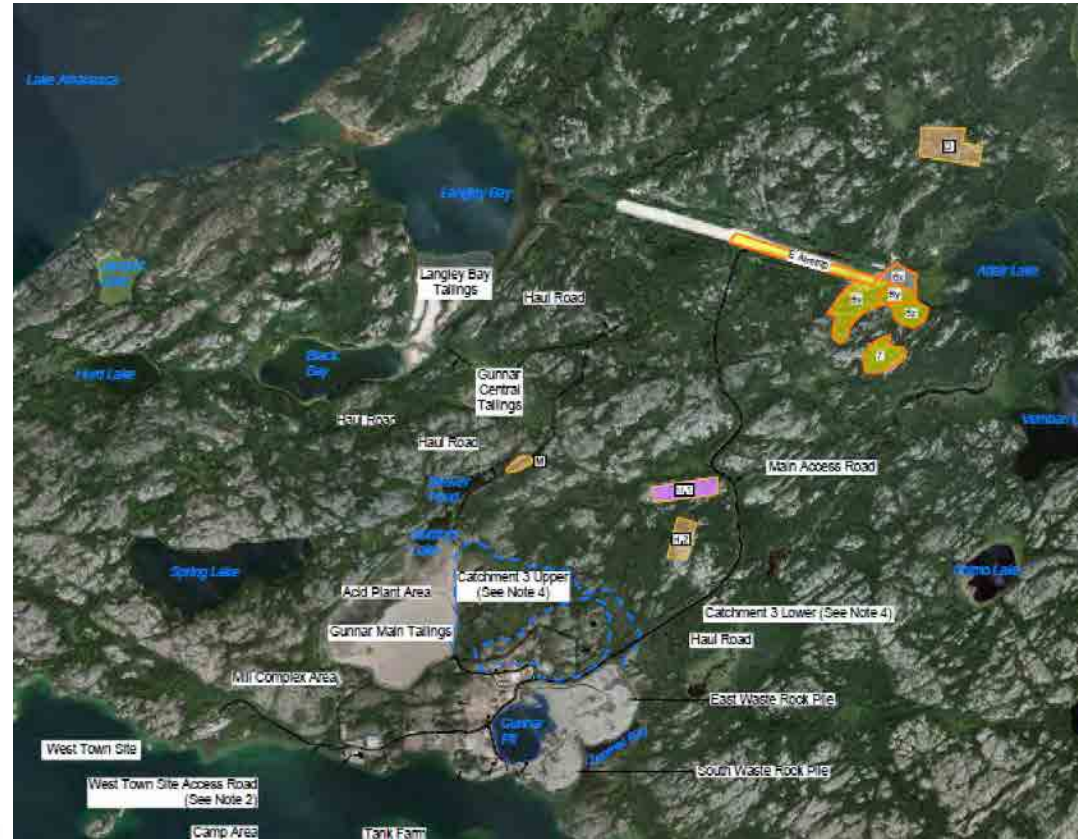
2. Regrade and cover Waste Rock Piles and general site



2. Regrade and cover Waste Rock Piles and general site

Quarry Rock Cover

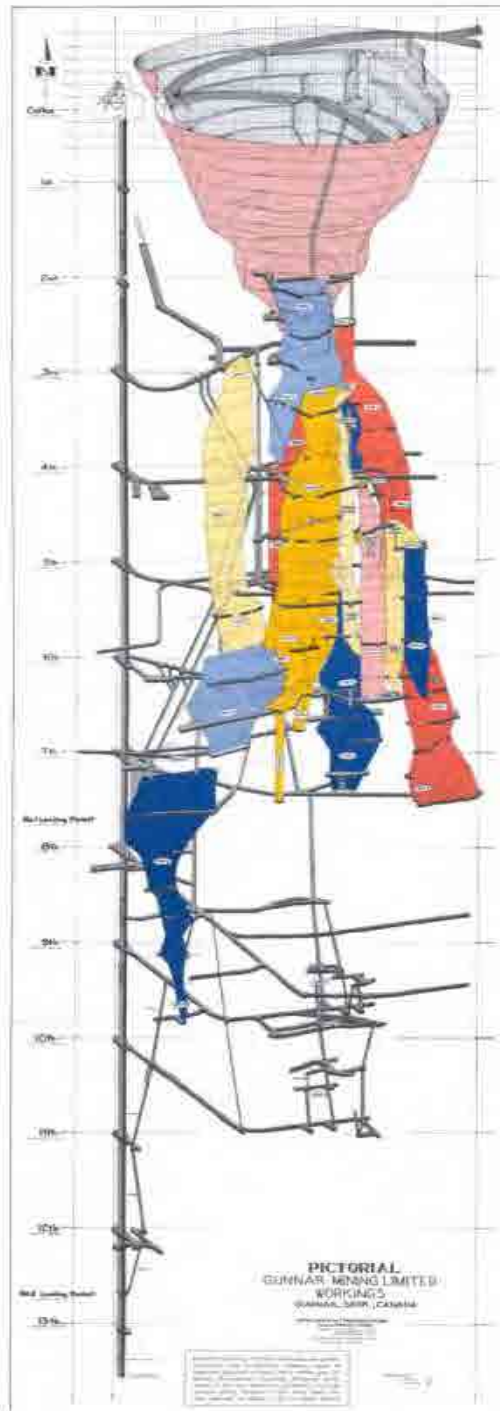
1. Not mining
2. Required for both Tailings and Other Site Aspects Projects
3. Purpose is to acquire clean rock to use as:
 1. rip rap on shorelines and channels
 2. cover material for steeper slopes



3. Permanently close 3 mine openings



4. Open Pit and Underground Workings



Summary of Key Updates

1. pH impacted material design is being finalized, proposed to go in Landfill A
2. Low level radioactive waste design is being finalized, proposed to go in Landfill B
3. Blasting work will occur in 2019-2021 (approximately)
4. Quarry rock cover will be placed on steeper slopes (4:1 and 5:1)

Project Timelines

- 2018
 - Finalize detailed remediation design report
 - Procurement of Other Site Aspects Contractor
- 2019
 - Remediation work begins
- 2022
 - Anticipated completion of remediation operations and demobilization activities
 - Begin post remediation monitoring to transition into provincial Institutional Control Program