



Faro Mine Remediation Project
Projet d'assainissement de la mine Faro

The Faro Mine Legacy

70 million tonnes of
tailings and 320 million
tonnes of waste rock





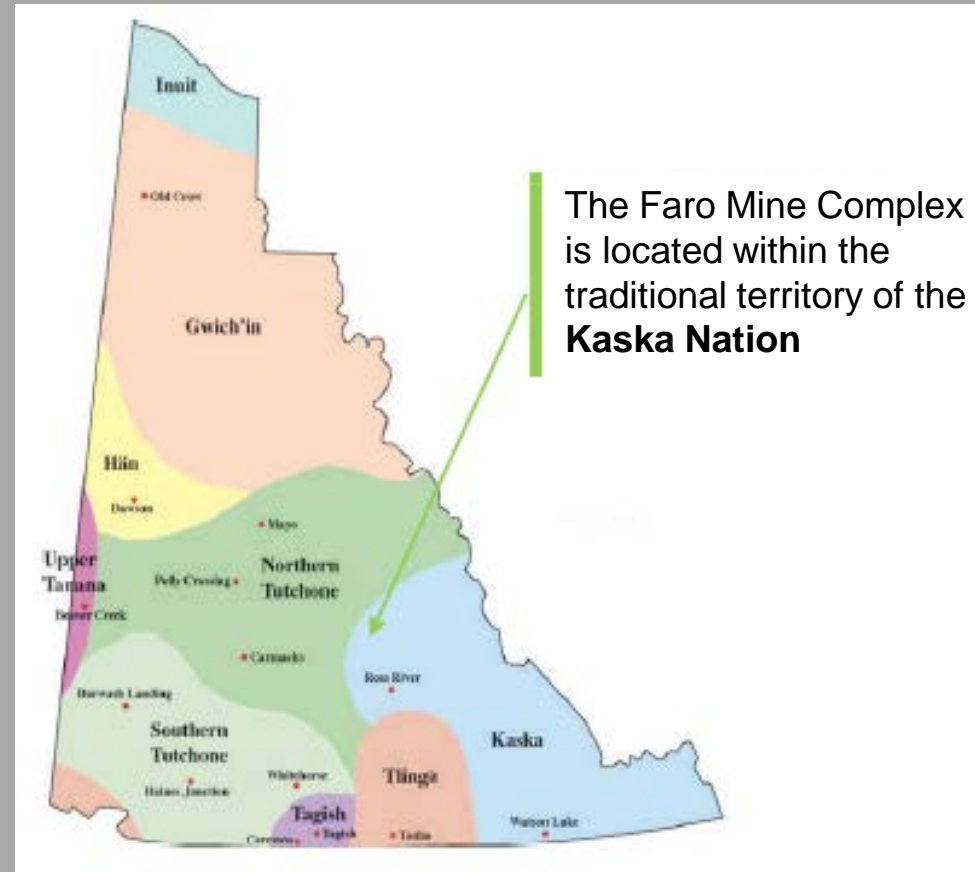
Presentation Outline

- Site Overview
 - History
 - Layout
 - Current Conditions
- Closure Plan Concepts
 - Diversions
 - Stabilize and Vegetate Landforms
 - Water Collection and Treatment
- Post-Closure Requirements
- Questions





Faro Mine Complex History





Faro Mine Complex History

Water from the site flow to the Pelly, River, which then flows into traditional territory of the **Selkirk First Nation**

The Town of Faro, established in 1968, now has about 400 residents





Faro Mine Complex History





Faro Mine Complex – Site Layout



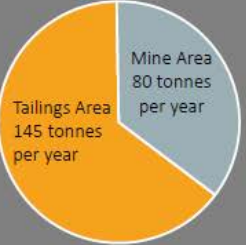


Faro Mine Complex – Current Conditions

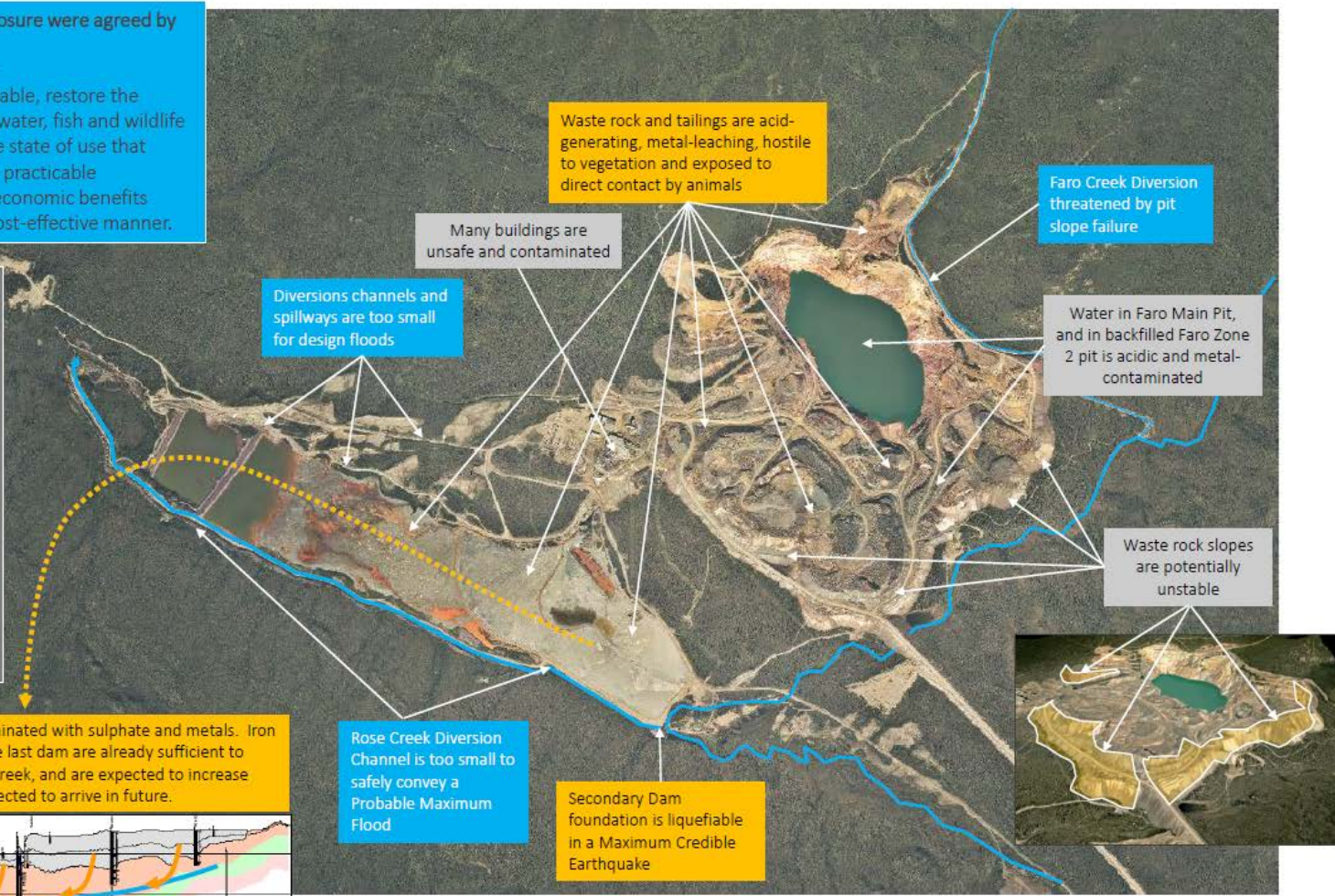
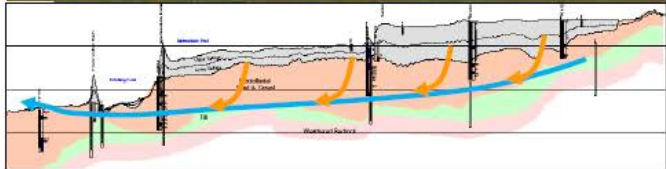
The five overarching objectives for closure were agreed by Canada, Yukon, Selkirk and Kaska:

1. Protect human health and safety
2. Protect and, to the extent practicable, restore the environment, including land, air, water, fish and wildlife
3. Return mine site to an acceptable state of use that reflects pre-mine land use where practicable
4. Maximize local and Yukon socio-economic benefits
5. Manage long term site risk in a cost-effective manner.

The Faro Mine and Rose Creek Tailings Areas release high levels of contaminants that need to be prevented from entering Rose Creek. The pie chart below shows zinc loadings that would reach Rose Creek if no closure actions are taken.

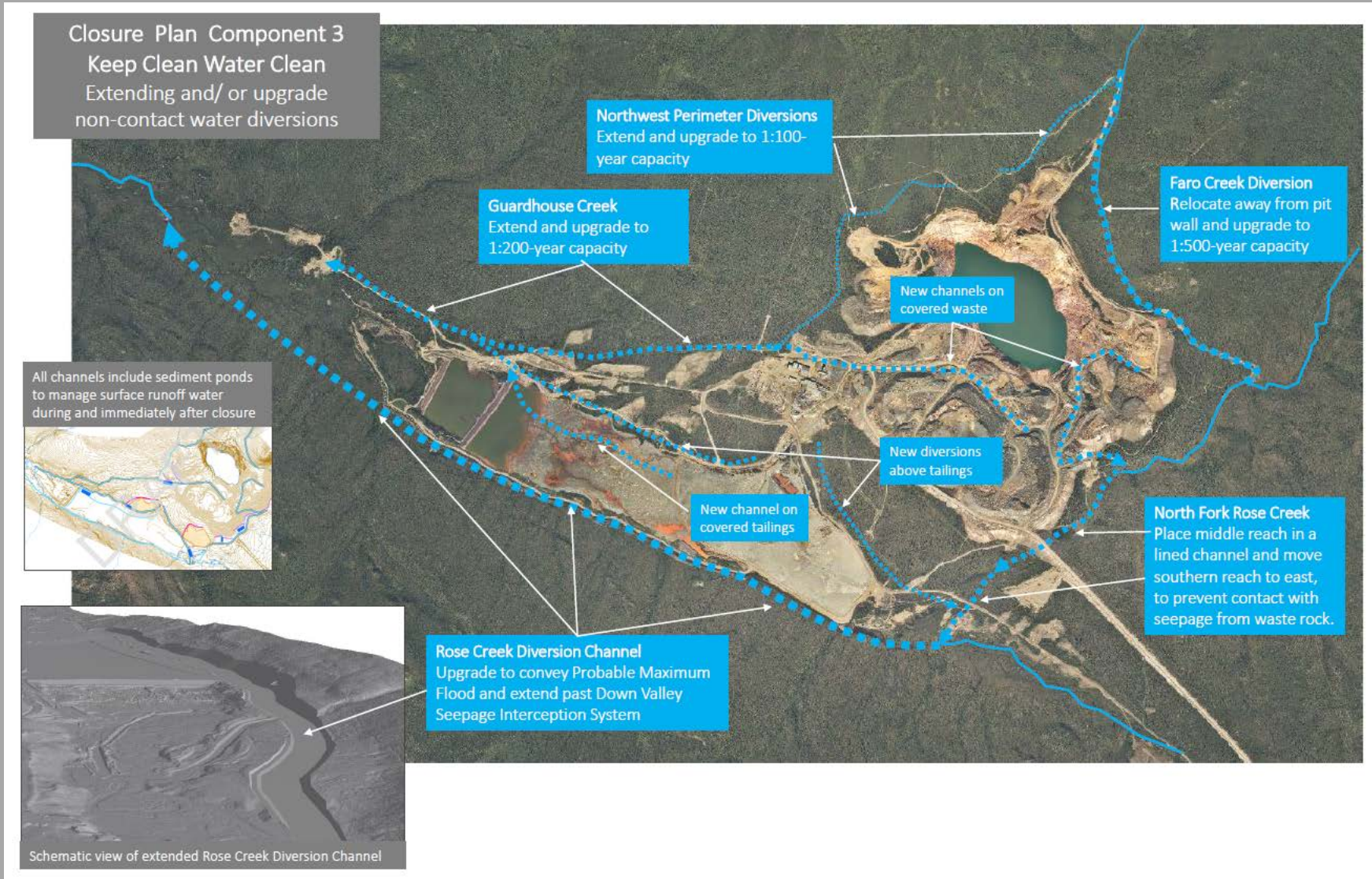


Groundwater below the tailings is contaminated with sulphate and metals. Iron and manganese concentrations below the last dam are already sufficient to cause significant contamination of Rose Creek, and are expected to increase over time. Zinc and other metals are expected to arrive in future.





Closure Plan – Diversions





Closure Plan – Stabilize and Revegetate Landforms

Closure Plan Component 2
Stabilize and Revegetate Landforms
Re-shape, cover, revegetate and
establish surface drainage on
waste rock and tailings

Rose Creek Tailings Area

- 1. Stabilize dams**
Add buttress to Intermediate Dam
Blast density foundation of Secondary Dam
- 2. Landform surface**
Use material from expansion of Rose Creek Diversion Channel to create a mounded surface
- 2. Construct cover**

Cover all tailings surfaces.
Profile is designed to support
vegetation growth
- 3. Establish drainage and revegetate**

Include expansion of
Intermediate Dam
spillway to convey
local PMF



Closure Plan – Stabilize and Revegetate Landforms

Closure Plan Component 2
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Faro Mine Area

1. Relocate low grade ore and regrade slopes

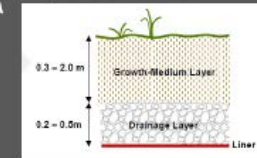
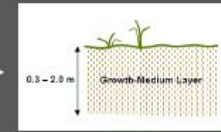


Low grade ore will be relocated to a central pile so it can be covered more efficiently

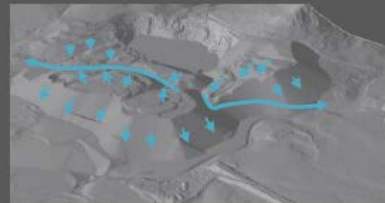
2. Construct three type of cover



Isolation Cover
Low Infiltration
Very Low Infiltration



3. Establish drainage



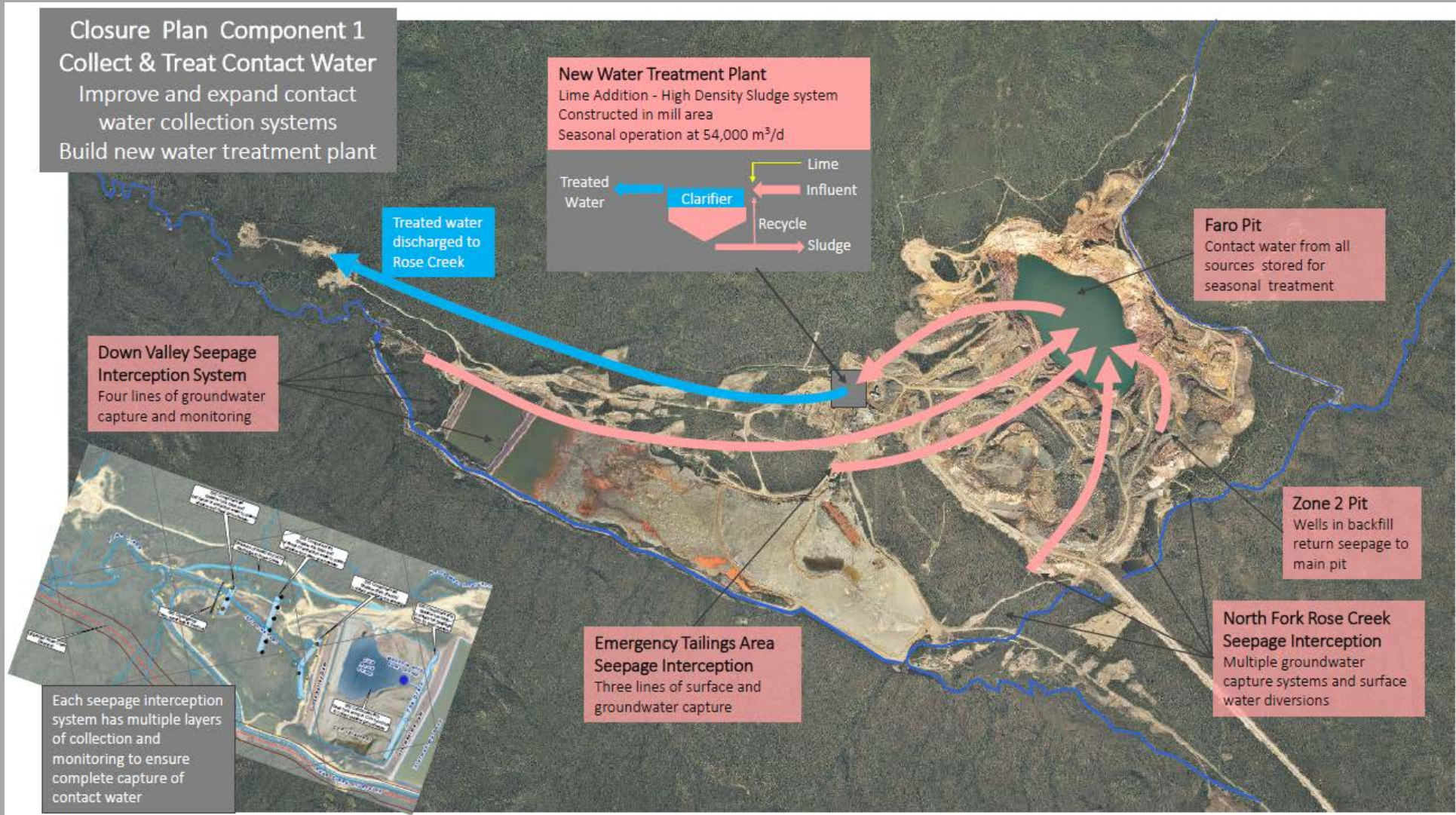
4. Seed and plant vegetation

*Early establishment to minimize erosion.
Variety of seed mixes for slopes, flats, dry areas, moist areas.
Planting to create vegetated drainage swales.*



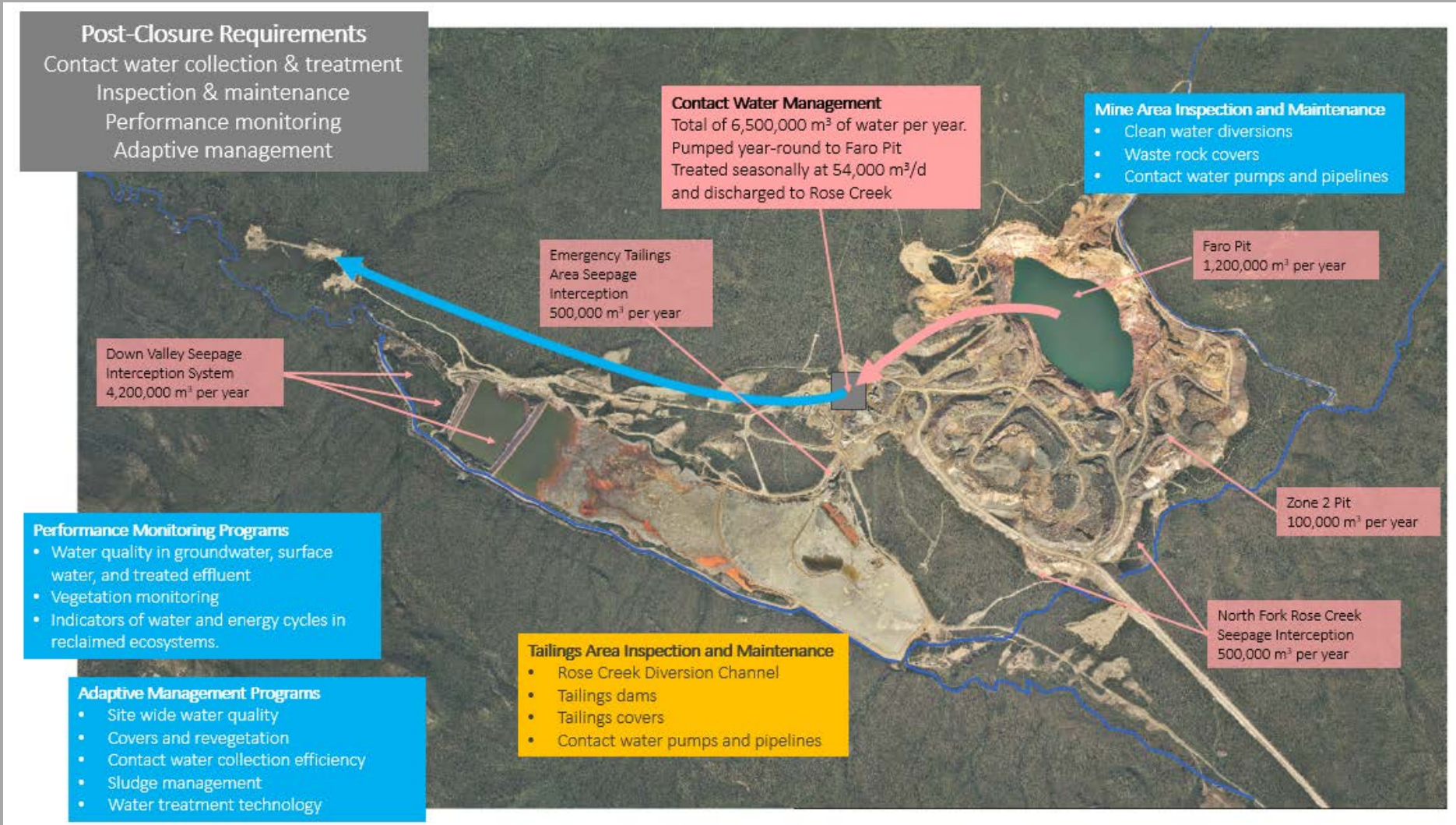


Closure Plan – Water Treatment and Collection





Post-Closure Requirements





Thank you and questions?

