

Annual Public Forum

City Council

March 6th, 2023



AGENDA – March 8th, 2023

- 1. Introduction and where we are in the process
- 2. How engagement has shaped the project
- 3. What have we done on site already?

- 4. What are we doing next on site?
- 5. Employment, training, jobs





Introduction and where we are in the process

1. THE GMRPTEAM

Canada

Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) Yellowknife Team*



Chris MacInnis* Director



Natalie Plato Deputy Director



Curtis Duffy Senior Engineer



Candace DeCoste Regulatory Manager



Jessica Mace Engagement Manager



Andrei Torianski **Economic Policy** Analyst



Nicole Garbutt Administrative **Project Coordinator**



Daniella Vaniersel Communications Officer



Christopher Thomas Mine Specialist



Geneva Irwin Community Consultation Officer

Parsons



Community



Garrett Cochrane Aaron Braumberger* Socioeconomic Relations Officer Development Manager



GNWT



Erika Nyyssonen Senior Advisor



Jeff Rosnawski **Technical Specialist**



* Chris MacInnis and Aaron Braumberger work out of Ottawa

1. WHERE ARE WE IN THE PROCESS

1948 - 2004 Mining

2020 August Water License & Land Use Permit received

2021 - 2038 **REMEDIATION**



Traditional Use

2005 - 2020

Care & Maintenance, Site Stabilization Plan Regulatory and Engagement 2038 and beyond

Post Closure Perpetual Care





















2. How engagement has shaped the project

2. ENGAGEMENT OVER THEYEARS!





3. What have we DONEALREADY on site?

3. 2005-2020

Care and Maintenance

- Water monitoring
- Treating contaminated water
- Air quality monitoring and dust management
- Dust management
- Site Stabilization
- Roaster deconstruction
- Underground stabilization







3. ACTIVE REMEDIATION OVERVIEW

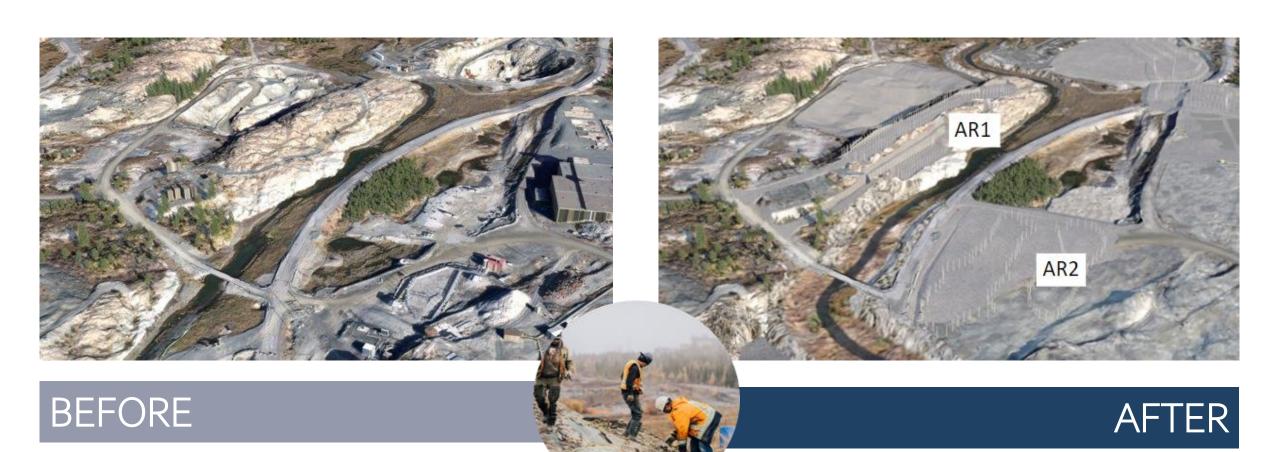
WHAT IS STARTED 2021 and 2022

- ✓ Area 1 Freeze Pad
- ✓ Landfill
- ✓ Backfilling the underground
- ✓ Townsite deconstruction

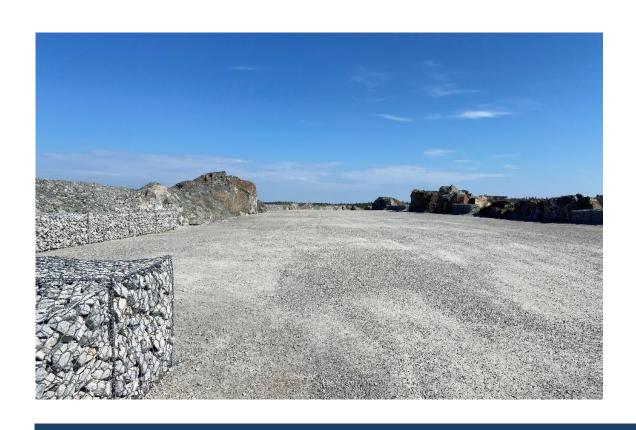
WHAT IS COMING 2023-2038

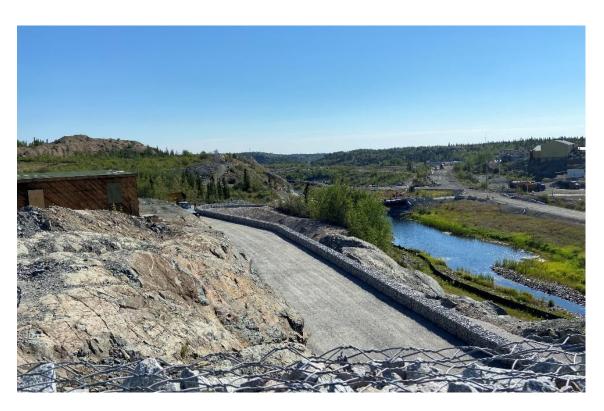
- ✓ Create and use borrow
- ✓ Build Water Treatment Plant
- ✓ Safely remove site structures
- ✓ Remove most contaminated soils
- ✓ Freeze all arsenic chambers
- √ Fill pits
- ✓ Cover tailings
- ✓ Work in Yellowknife Bay
- ✓ Restore Baker Creek

3. 2021 - Area 1 Freeze Pad



3. 2021/22 - Area 1 Freeze Pad





NOW

3. 2021—Landfill





BEFORE

AFTER

3. 2021—Landfill





NOW

3. 2021-22 — Underground Backfilling



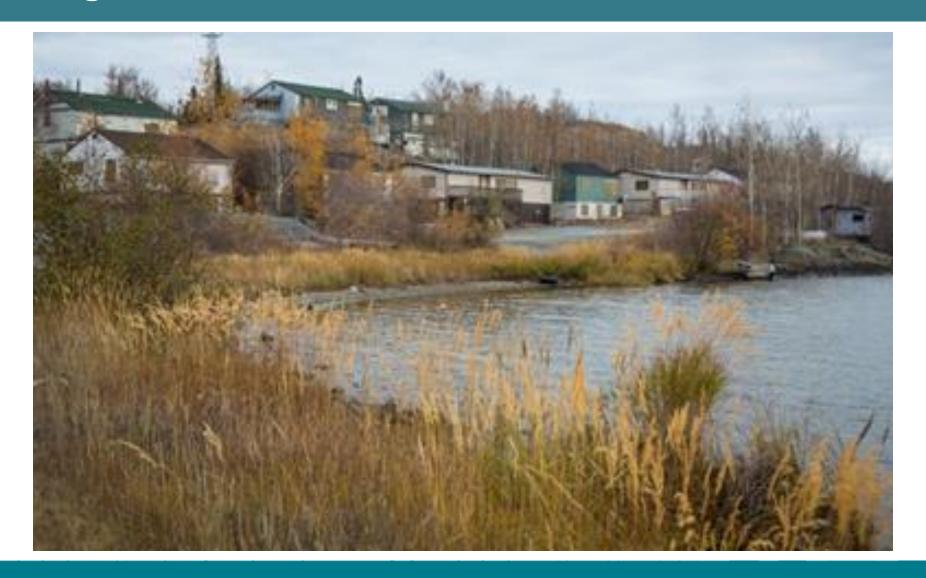








3. 2022-23—Townsite Deconstruction



3. 2022-23 – Deconstruction IN PROGRESS



Planer/Carpentry Building



Main Office/Townsite



4. What are we doing NEXT on site?

4. ACTIVE REMEDIATION OVERVIEW

WHAT IS STARTED

- ✓ Area 1 Freeze Pad
- ✓ Landfill
- ✓ Backfilling the underground
- ✓ Townsite deconstruction

WHAT IS COMING

- ✓ Build Water Treatment Plant
- ✓ Safely remove site structures
- ✓ Remove most contaminated soils
- ✓ Freeze all arsenic chambers
- ✓ Fill pits
- ✓ Cover tailings
- ✓ Work in Yellowknife Bay
- ✓ Restore Baker Creek



4. Project Schedule

	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34	'35	'36	'37	'38
Tailings Containment Areas																	
Contaminated Soils																	
Water Treatment Plant																	
Baker Creek																	
Underground Mine Workings																	
Demolition and Debris																	
Open Pits																	
Freeze/Frozen Shell																	
Non-Hazardous Waste Landfill																	
Borrow Material																	
Site Services																	

4. REMEDIATION - Water Treatment Plant — 2023-2025





4. Site Infrastructure — 2023 to 2027





NOW

NOW

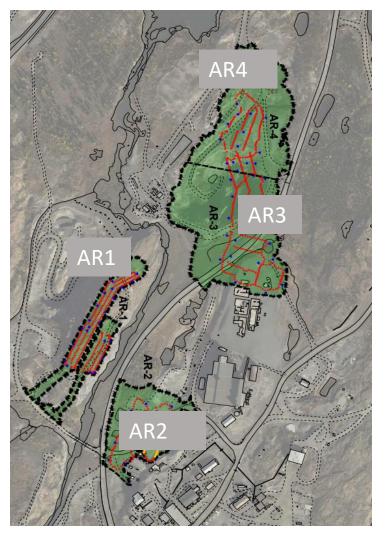
4. Removing Contaminated Soils — 2024 to 2033



- Clear Area
- Excavate
 Contaminated Soil
- Place clean borrow

NOW

4. Underground Freeze — 2026 to 2035



AFTER



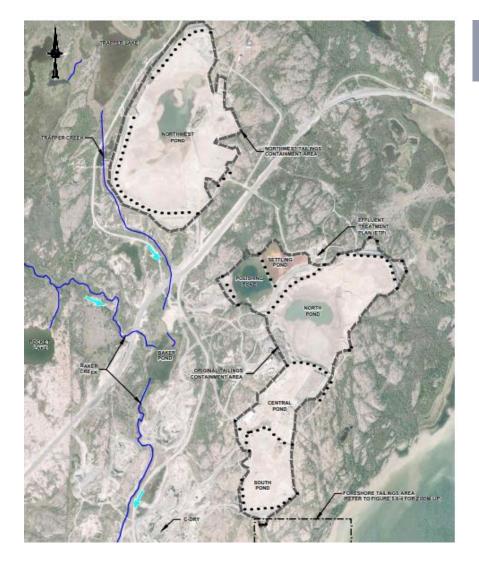
Freeze Arsenic Areas (AR1-AR4), 2026-2035

- Clear area
- Blast to make areas flat
- Install thermosyphons

4. Open Pits — 2027 to 2034

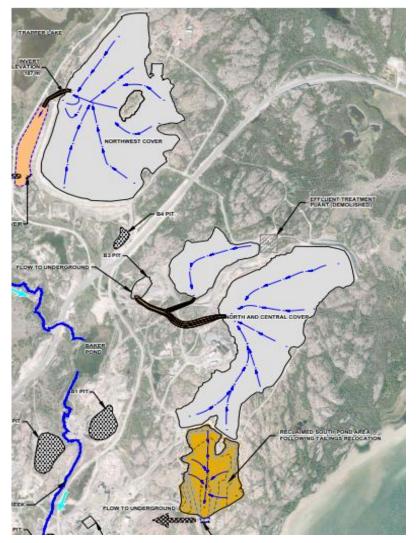


4. Tailings Ponds — 2026 to 2037



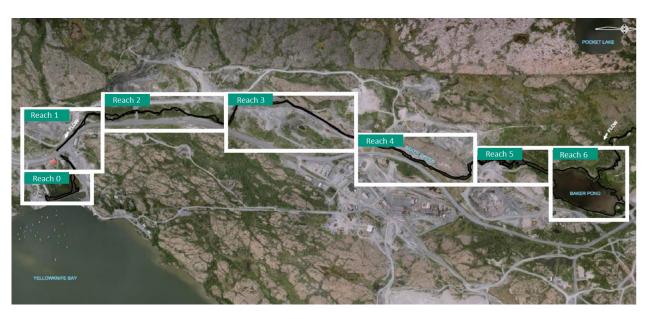
BEFORE

- Relocate South Pond to Central and North ponds
- Dry out the ponds
- Cover the ponds with a liner and large rocks





4. Baker Creek 2029 to 2038





NOW

4. Baker Creek Shoreline





Mouth of Baker – 2033 to 2037

4.YK Bay



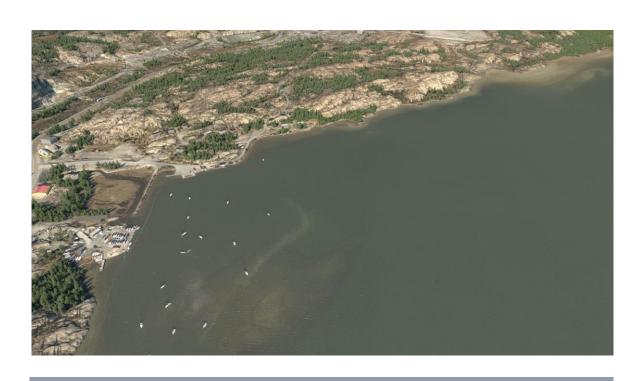


BEFORE

AFTER

2029 - 2033

4. Giant Mine Shoreline





BEFORE

AFTER

2028 to 2038

4. Public Boat Launch and Sailing Club Boat Launch area Timeline

-PHASE 1

-Present day to ~July 2028

-No change. Both boat launches in operation

-PHASE 2

-July 2028 to ~May 2030

-Sailing Club Boat Launch Closed; Public Boat Launch Open to Public

-PHASE 3

-June 2030 to Summer 2038

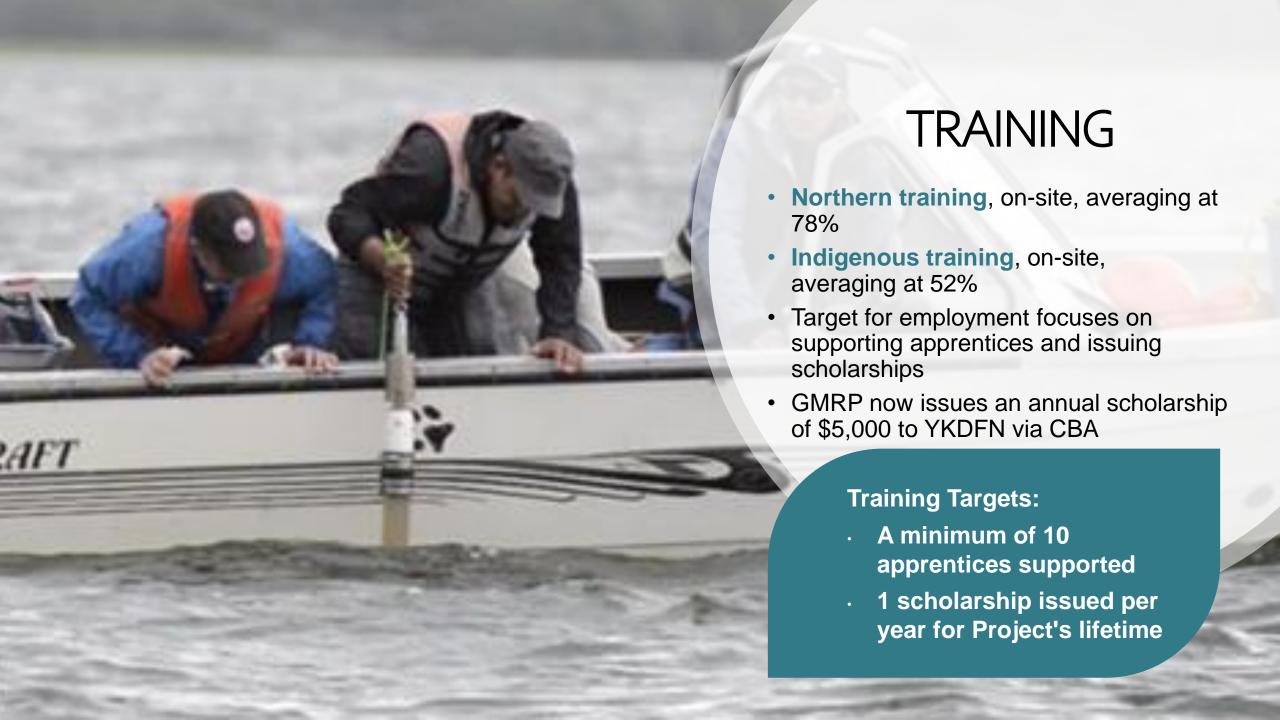
-Sailing Club Boat Launch Open to Public; Public Boat Launch Closed





5. Employment, Training and Contracts





5. CURRENT CONTRACTS WITH NORTHERN BUSINESSES

Care and Maintenance

- Underground: Det'on Cho and Procon JV, \$32.1M (5 years)
- Surface: Det'on Cho and Nuna JV, \$12.6M (2 years)

Townsite Deconstruction:

Metcor and QM Environmental JV, \$6.1M (1 year)

Site Security: Det'on Cho JV, \$3.3M (3 years)

Emergency Medical Services: Det'on Cho JV, \$1.8M (5 years)

Surface Water and Groundwater Monitoring:

BluMetric Environmental and True North Environmental JV, \$1.4M (2 years)



5. CURRENT CONTRACTS WITH NORTHERN BUSINESSES

Bear Monitoring: Ek'edia Services, \$361K (2 years)

Laboratory Services (Medical):

ALS Environmental, \$1.2M (5 years)

Domestic Waste Disposal:

Kavanaugh Bros, \$685K (2 years)

Laboratory Services (ETP and Pilot Plant):

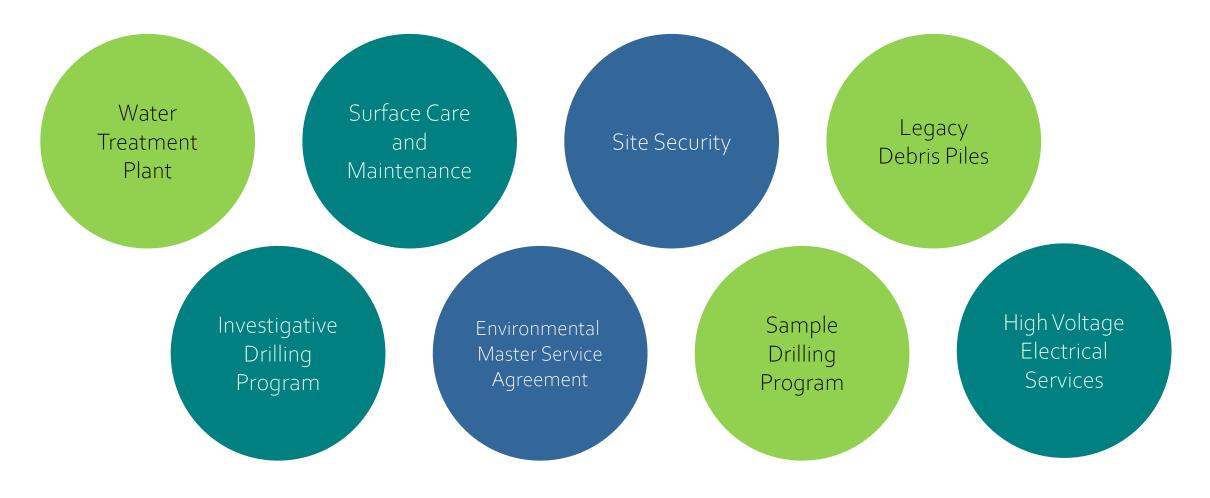
Taiga Environmental Laboratory, \$425K (5 years)

Site Wide Surveying: Det'on Cho JV, \$309K (< 1 year)

Since 2017, Parsons issued 64 subcontracts with a value of over \$189M. Of that contract value, 84% went to Northern companies.



5. UPCOMING WORK Packages – 2023*



https://giantminerp.ca/

^{*} Packages subject to change



Mahsi Cho Thank you Merci