



INTEGRATING INDIGENOUS BUSINESS STRENGTHS INTO REMOTE SITE REMEDIATION

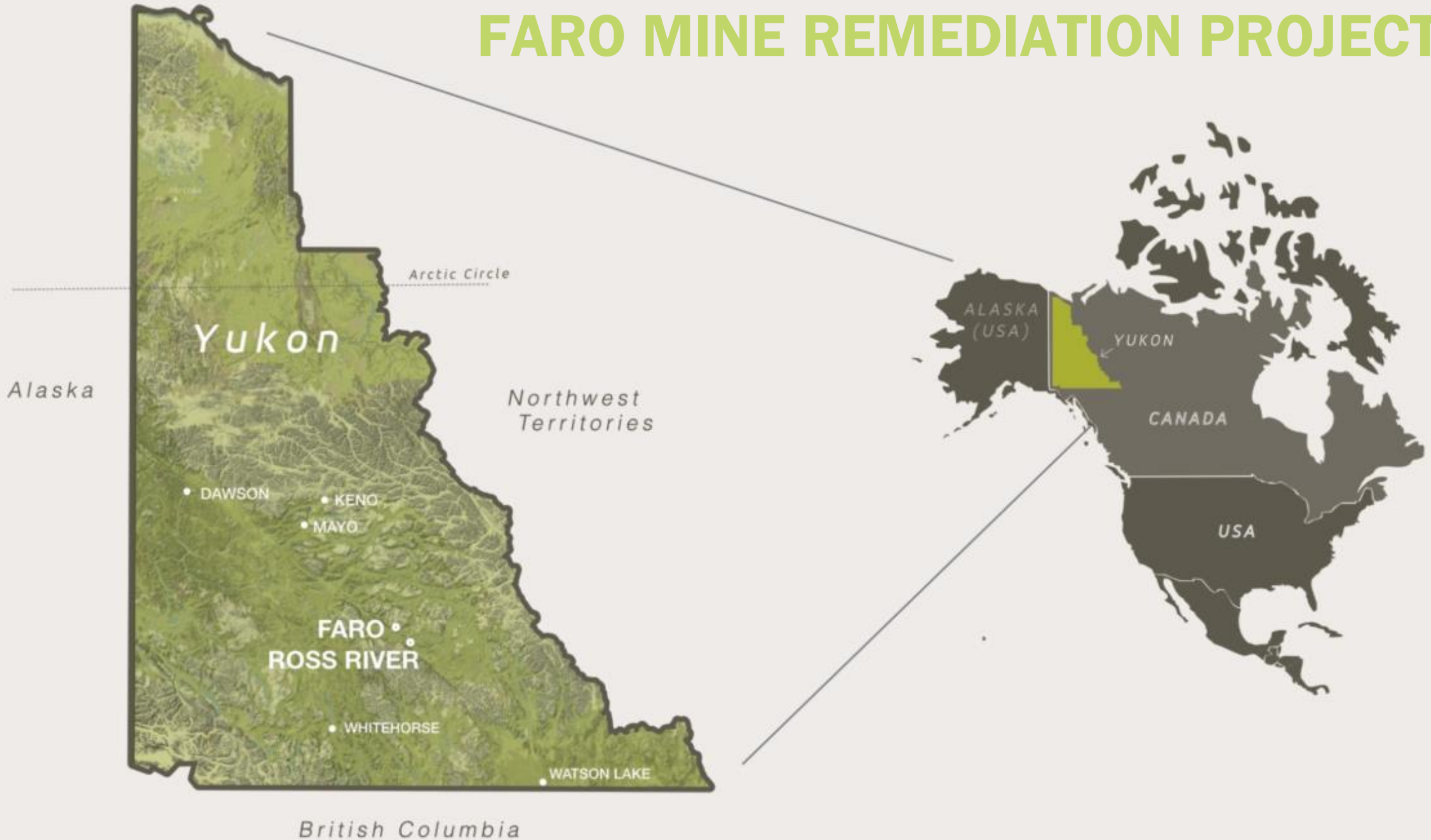
Lessons from one of Canada's largest mine remediation projects

Rob Yeomans, Socio-economic Development Manager, Parsons Inc.

Cynthia Dick, Operations Manager, Tu-lindini Fuel and Logistics

Cassia Jakesta, Operations Manager, Dena Cho Environmental

FARO MINE REMEDIATION PROJECT



FARO MINE COMPLEX

- Located in the Yukon on a 2500-hectare site, 350 kilometers northeast of Whitehorse.
- Open-pit mine produced lead and zinc, operated from 1969 until 1998 and included a mill, an excavation pit, waste rock stock-piles, and tailing ponds.
- At one time, the Faro Mine was the world's largest open-pit lead and zinc mine, supplying 15% of global output.
- In 1998, the last operator, Anvil Range Mining Corp, went into receivership.
- Parsons Inc. has been the Care and Maintenance Contractor since 2016 and the Main Construction Manager (MCM) since 2022.





PROJECT OVERVIEW



Scale & Risk

Faro Mine (south-central Yukon) is among Canada's largest abandoned mine cleanups, with costs exceeding \$2B and significant long-term environmental risk.



Governance Complexity

After abandonment, Canada became owner of last resort—coordinating federal and territorial bodies, regulators, and Indigenous governments.



Multi-Decade Delivery

The remediation strategy spans design, construction, monitoring, and adaptive management—integrating technical outcomes with Indigenous participation and local capacity.

PROJECT CONTEXT

Remote subarctic setting

The Faro Mine site spans ~25 km² in rugged terrain with limited infrastructure and extreme seasonal variability.

Access and short construction season

Long travel distances, limited road networks, and harsh winters compress field work windows and increase logistical complexity and cost.

Operational implications

Rapid weather shifts affect earthworks, water management, and materials handling—making adaptive management, self-sufficiency, and

Indigenous/northern expertise essential.



ENVIRONMENTAL CHALLENGES

Mine-Impacted Materials

Soils, waste rock, and tailings contain elevated metals, creating ongoing risks to surface water and groundwater, with downstream impacts on ecosystems and traditional land uses.

Climate Variability & Change

Shifting precipitation and thawing permafrost can reroute hydrology and contaminant transport, requiring remedies that perform under a wide range of future conditions.

Adaptive Remediation Approach

Engineered controls plus long-term monitoring and the ability to intervene are essential, reinforcing adaptive management frameworks that can evolve as performance and conditions change.



ADAPTIVE MANAGEMENT APPROACH

Adaptive management is a cornerstone of the Faro Mine Remediation Project, recognizing that long-term environmental systems cannot be predicted with complete certainty.

MONITORING & EVIDENCE

A comprehensive monitoring program tracks surface water, groundwater, soil conditions, and geotechnical performance across the site. Monitoring data are used to evaluate the effectiveness of remediation measures and to identify emerging risks.

THRESHOLDS & RAPID RESPONSE

When thresholds are exceeded or unexpected trends are observed, urgent works can be initiated to mitigate potential impacts. This approach depends on strong data management, clear decision-making protocols, and the operational capacity to mobilize resources quickly.

INTEGRATION & ACCOUNTABILITY

Indigenous and local contractors play a critical role in supporting monitoring and response activities, reinforcing the integration of technical and socio-economic objectives. Adaptive management enhances resilience and accountability in long-term remediation projects.





INDIGENOUS PARTNERSHIP

PLACE & SIGNIFICANCE

Faro Mine sits in Kaska Dena traditional territory (Tse Zul), with cultural, environmental, and subsistence importance for Ross River Dena Council and other Kaska communities.

RIGHTS HOLDERS

Indigenous governments are rights holders with enduring connections to land and water—recognition of this context is fundamental to responsible delivery.

RELATIONSHIP-BASED APPROACH

Emphasizes early, ongoing engagement, respect for traditional knowledge, and meaningful participation through governance and economic opportunity.



VALUE OF INDIGENOUS BUSINESS INTEGRATION



Project performance advantages

Local expertise, stable crews, and remote-site adaptability improve safety, efficiency, and environmental stewardship.

Stronger supply chain resilience

Greater use of Indigenous and northern firms reduces reliance on distant contractors and improves responsiveness.

Community outcomes and capacity

Procurement strategies can enable meaningful participation while maintaining rigorous technical and safety standards.

COMPANY IN FOCUS

**TU-LINDINI
ROSS RIVER, YUKON**



Tu-Lidlini Fuel and Logistics

- 100% First Nation owned company by Ross River Dena Council
- Operating since 2005 providing fuel services to communities and industry
- We support mining, exploration and remediation projects
- Focused on strong partnerships that support our community
- Located near the Faro Mine site with strong knowledge of the land and logistics.
- Proud to support Parsons Inc. and the Faro Mine Remediation Project.



Fuel Supply Services

- Bulk delivery of diesel, gasoline, Jet A fuel and propane
- Reliable fuel supply for remote northern operations
- Drummed fuel delivery where tanker access is limited
- Experience supporting remote mining and exploration sites

Fuel Tanks and Storage

- Supply and installation of fuel tanks for remote operations
- Fuel tank leasing options available
- Supporting safe fuel storage at remote work sites
- Helping projects maintain reliable fuel access



Worker Transportation Service

- New worker transportation service operated by Tu-Lidlini
- Bus service running between Whitehorse and Faro
- Service operates two times per week
- Providing safe and reliable transportation for workers



Operating in Northern Conditions

- Experience operating in remote Yukon environments
- Understanding seasonal access and winter road conditions
- Equipment and crews experienced with northern logistics
- Local knowledge helps keep projects running smoothly



Why First Nation Businesses Matter

- The Faro Mine remediation project is in our traditional territory
- Local companies bring knowledge of the land and environment
- Supporting local businesses benefits the community
- Partnerships ensure projects respect the land and people



Supporting the Faro Mine Remediation Project

- Fuel supply and logistics support for project operations
- Fuel tank supply and installation
- Worker transportation services
- Local partnerships supporting efficient project delivery



Working Together With Parsons

- Tu-Lidlini is proud to support the Faro Mine remediation project
- Our location and experience make us a strong local partner
- We provide fuel supply, logistics and transportation services
- We look forward to building strong partnerships with Parsons





COMPANY IN FOCUS

DENA CHO ENVIRONMENTAL ROSS RIVER, YUKON



THE DENA CHO STORY

Founded: 2014

Ownership: Ross River Dena Council

Structure: Dena Nezziddi Development Corporation agency

Projects Supported: 30+ (last year)

Services:

- Baseline environmental monitoring
- Effects monitoring & site inspections
- Reclamation & revegetation
- Technical review & regulatory support
- Community consultation & knowledge integration

Staff:

- 2 managers
- 8 field technicians
- Lab technician
- Network of professionals
- Scalable workforce with seasonal surge capacity

Guiding Principles:

- Ensuring regulatory compliance and community trust
- Integrating Kaska knowledge into environmental decision-making
- Creating stable Indigenous workforce participation
- Maximizing socio-economic benefits to the Ross River Dena



KEY PROGRAMS

- Faro Mine Revegetation Strategy:
 - 140,000+ trees and shrubs planted
 - Native seed collection from Dena lands
 - Youth & Elders participation
 - Integrate Kaska ecological knowledge
- Mine Monitoring and Technical Support:
 - Faro
 - Wolverine
 - Ketzka River
 - Cantung



INDIGENOUS EMPLOYMENT & ECONOMIC IMPACT

- 95% Kaska Dena hiring (2025/26)
- \$814,000+ Indigenous wages (as of April 2026)
- ~75 seasonal/temporary hires to date



DENA CHO
ENVIRONMENTAL

Why Indigenous-Led Environmental Services Matter to Mining Projects

- Strengthens community relationships
- Reduces permitting and social risk
- Improves ESG reporting and accountability
- Builds long-term workforce capacity
- Aligns development with Indigenous values



DENA CHO
ENVIRONMENTAL

VISION FOR THE FUTURE

- Expand Indigenous-led monitoring across northern mining projects
- Grow technical capacity within Kaska Dena workforce
- Become the trusted environmental partner for responsible development in Yukon





KEY TAKEAWAYS

Sógá sénlá
Thank you

Remote and northern constraints fundamentally shape project design, logistics, and risk management —demanding flexible, adaptive delivery approaches.

Indigenous partnerships add measurable value by strengthening local capacity, improving project resilience, and aligning work with long-term stewardship goals.

Socio-economic objectives embedded in governance and delivery models increase legitimacy and improve the sustainability of outcomes.