

ԾԹԻՈՐՈՐՎԵԼՏ ՎԼԼ
 ԱՇՈՎՋԱԶԵԻԼՏՐԸ

Phase 2 Proposal / ၎်ႇႁူၺ်ႇႁူၺ်ႇႁူၺ်ႇ 2

Public Hearing Iqaluit and Pond Inlet January 25 – February 6, 2021

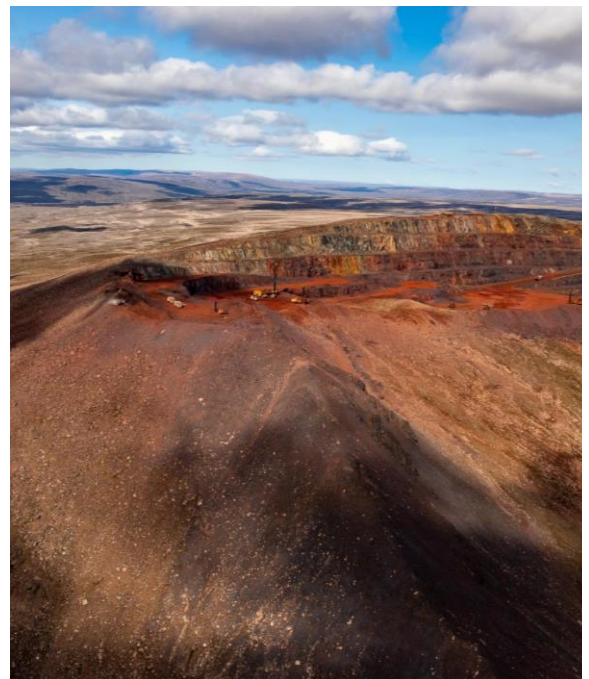
ፈቃድ ሰጪ ሰነድ ለጥቅምት 25 - ጳጉሜ 6, 2021



Overview of Presentation

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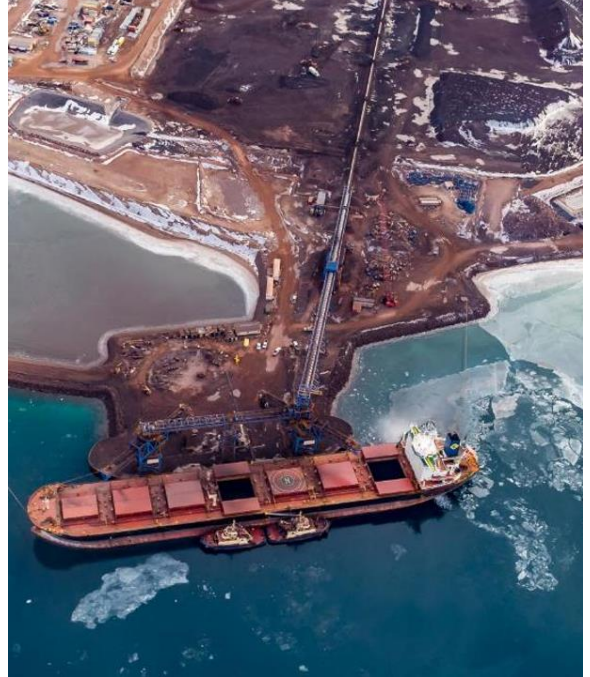
- Introduction
ጋዖጥናጥራጭጥራ
- Current Operations
ፎርጋፍፍ ፈጠራ
- Key Milestones Since 2019
2019-ፍጥረ ለፍጥረጥራጭጥራ
- Community Engagement
ፈጠራጥራ ፈጠራጥራ



Overview of Presentation

ዕልልጅና ርዕረጽ ስራ ፎክሎር ምዕራፍ

- Summary of Phase 2 Environmental Assessment
ዕልልጅና ርዕረጽ ስራ ምዕራፍ
ለድህረ-ገጽ ስራ ምዕራፍ ለድህረ-ገጽ ስራ ምዕራፍ
- Monitoring and Adaptive Management
ፎክሎር ምዕራፍ ለድህረ-ገጽ ስራ ምዕራፍ ለድህረ-ገጽ ስራ ምዕራፍ
- Technical Review Summary
ሪፖርት ስራ ምዕራፍ ለድህረ-ገጽ ስራ ምዕራፍ ለድህረ-ገጽ ስራ ምዕራፍ



A bit about us...

ፎክሎር ምዕራፍ ስራ ምዕራፍ

- **Ownership:** Owned by Energy & Minerals Group and ArcelorMittal
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- **Location:** Main asset is the Mary River mine located on northern Baffin Island, in the Nunavut Territory, Canada
ሪፖርት ስራ ምዕራፍ ለድህረ-ገጽ ስራ ምዕራፍ ለድህረ-ገጽ ስራ ምዕራፍ
- **Employees:** ~1000+ permanent and fixed-term employees
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Mary River Project History

ፌዴራል ሶሻላይዝድ ሎኒንግ ፕሮጀክት



1962
Mary River's
high grade
iron ore first
noted in an
airborne
reconnaissance

1973
Baffinland
acquires
mining
leases



1999
Nunavut
Created

Mary River
Project site
selected as
Inuit
owned
land



2012
The
Nunavut
Impact
Review
Board
(NIRB)
issues the
Project
Certificate
for Mary
River
Project



2013
Early Revenue
Phase
Proposed;
Baffinland and
QIA sign the
IIBA,
Commercial
Lease and
Water
Compensation
Agreement



2014
Early
Revenue
Phase
Approved
Phase 2
Proposed



2015
First iron ore is shipped to Europe;
Phase 2 Rail Proposal



2018
NBRLUP
Amendment;
Production
Increase Approval
(to Dec. 31, 2019);
Amended IIBA;
FEIS submitted for
Phase 2



2020
Inuit Certainty
Agreement
signed between
Baffinland and
QIA

Production
Proposal
Increase –
approval

Mary River Project History

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1962

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ድር ምክር ቤት
ደንበኛ
የቴክኖሎጂ
ዘርፍ ምክር ቤት

1973

<ጀርመኒያ
የቴክኖሎጂ
ዘርፍ ምክር ቤት>



1999
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ካይትፖሊኖብ
ወደፊት
ለፍጥነት
ፖሊሲዎች
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ወደፊት
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ወደፊት

[illegible][illegible]

2014

ERP
ᐃᓕᓴᓂᐅᑦ;
ᐃᓕᓴᓂᐅᓂᐅᓂᐅ
ᐅᓴᓂ ᓴᓂ ?

[illegible][illegible][illegible]

The Mary River Mine

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- Implementation of mitigation and management measures over 6 years of Project operation
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ᐱᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ
ᐱᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ
- Baffinland is the largest private employer in the Qikiqtani region
ᐱᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ
ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ
- One of the largest and best iron ore deposits not only in Canada, but in the entire world
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ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ
ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ ᓄᓗᓕᓐ



Current Operations

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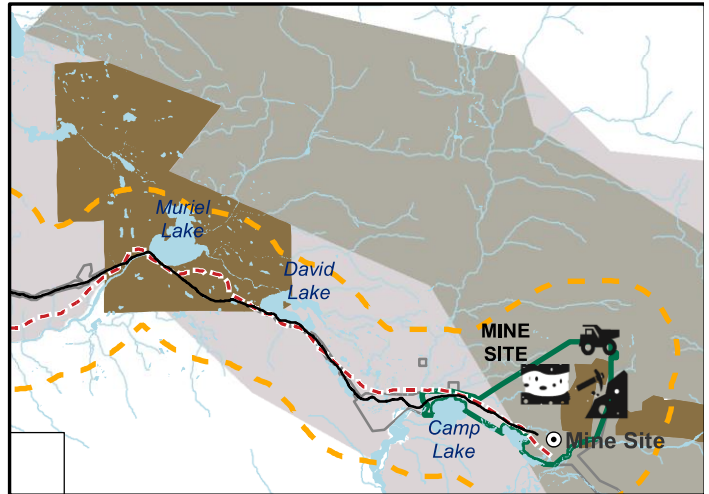


How do we mine?

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1. Ore is blasted at the open pit mine
ᐸᐸᐸᐸᐸᐸᐸ ᖃᖅᐸᐸᐸᐸᐸᐸ ᓄᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ
ᐸᐸᐸᐸᐸᐸᐸᐸᐸ
2. Trucks haul the blasted ore to the crusher
ᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸ ᖃᖅᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸᐸ
ᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸ
3. Blasted ore is crushed for transport to the Port
ᖃᖅᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸ
ᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸᐸ



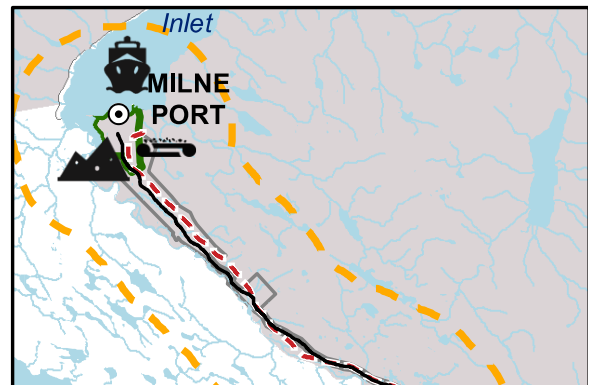
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How do we mine?

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4. Trucked to the port site and stored
ᓄᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ
ᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸ
- A ship loader is used to load iron ore on ships
ᐸᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸ
ᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸ
5. Ore is shipped to our customers worldwide
ᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸᐸ
ᐸᐸᐸᐸᐸᐸᐸᐸ ᓄᐸᐸᐸᐸᐸᐸᐸ



Lump ore / ᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸ

Fines / ᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ



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Mary River Approved Project and Existing Facilities

[illegible]

Mine Site / [▶၇၄၀၈၄၆၁၁၁၁၁၁](#)



Mary River Approved Project and Existing Facilities

$\mathbb{Z}^b \triangleleft \Gamma^b C \triangleright \Gamma^b \triangleright \Gamma^a \sigma \triangleleft \mathbb{A}^b \triangleleft L \triangleright \dot{L}^e e e \triangleleft \Gamma^b \Gamma^c$



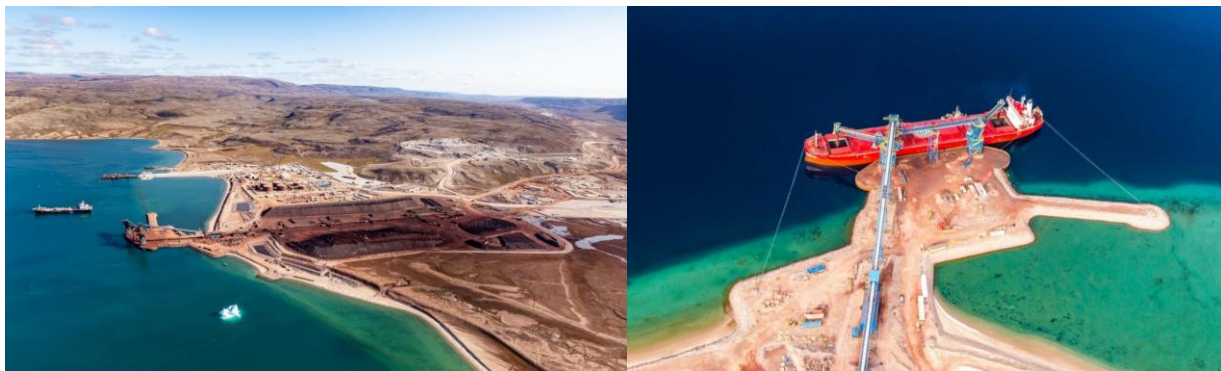
Mary River to Milne Port
Tote Road

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ᐃᓕᓕᓕᓕᓕᓕ ᐃᓕᓕᓕᓕᓕᓕ

Mary River Approved Project and Existing Facilities

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Milne Port/ ᐃᓄᓐ ᐃᓄᓐ



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Mary River Approved Project and Existing Facilities

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Northern Shipping Route
ᐃᓄᓐ ᐃᓄᓐ ᐃᓄᓐ
ᐃᓄᓐ ᐃᓄᓐ ᐃᓄᓐ



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2019-Γσ^c

[illegible]

Response to FHC Decision Report and Additional Updated Information

Key Milestones Since 2019

November
2019

୨୦୧୯
2019

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ወደ
ጋሌልላ
በፍሪ
ለኖከፈርዖንና
ሲኖኖ
ኢየሱስ

January
2020

7^o 2020

ወደብላል EA
ከባለቤቱ ጋር

February
2020



 2020

ፌዴራል ሚኒስቴር
የጋራ ጥያቄዎች
ፓርቲ ልማት
ፖሊሲ
የፌዴራል ሚኒስቴር
የጋራ ጥያቄዎች

June
2020

੨੮ 2020

$\Delta \Pi_C \Delta^b C \Delta \sigma$
 $\Delta \Delta \Delta^c$
 $\Delta C \Delta^b C \Delta^a \rho^a$
 $\Delta^a \sigma \Delta^a \sigma^a \rho^a \Delta^c$
 $\Delta^a \rho^a \Delta \Pi$



September 2020

ኖቬምበር 2020

ሳይከረረውም፣
ከበረካቶች፣ ወደብረካቶች
ወደብረካቶች
ወደብረካቶች ለሀገር
ሳይከረረውም፣
ወደብረካቶች
ወደብረካቶች
ወደብረካቶች ለሀገር



October 2020

၁၆၂၅ ၂၀၂၀

ፍጹሙ ለሰላም ማምጣት
ሚረጋገጥ



December 2020

በኢሉ 2020

[illegible]

Additional Submissions to NIRB and Technical Comment

ጋራ ምክር ቤቱ የደንበኞች አስተዳደርና የፖለቲካ አገልግሎት ማሻሻያ ስራዎችን ያከናውናል።

- [illegible]

[illegible]

- Summary of Significance Determinations
ዕድሜያዊ ልዩነቶች ለሀገራዊ ልማት
ጥቅም ላይ የዋለውን
- Summary of Phase 2 Socio-Economic Monitoring
ዕድሜያዊ ልዩነቶች ለሀገራዊ ልማት
ጥቅም ላይ የዋለውን
- Multiple updates regarding consultation and commitments
ጥሪ ለሀገራዊ ልማት ለሚደረግበት
ጥሪ ለሀገራዊ ልማት ለሚደረግበት
ጥሪ ለሀገራዊ ልማት ለሚደረግበት

Phase 2 Project – Purpose and Need

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Project expansion is necessary to ensure

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Financial stability

ᐱᓐᐅᓐ ᐊᓐᐅᓐ ᐊᓐᐅᓐ ᐊᓐᐅᓐ



Sustained and growing benefits for communities

ᐱᓐᐅᓐ ᐊᓐᐅᓐ ᐊᓐᐅᓐ



Enhanced operational design to minimize Project impacts

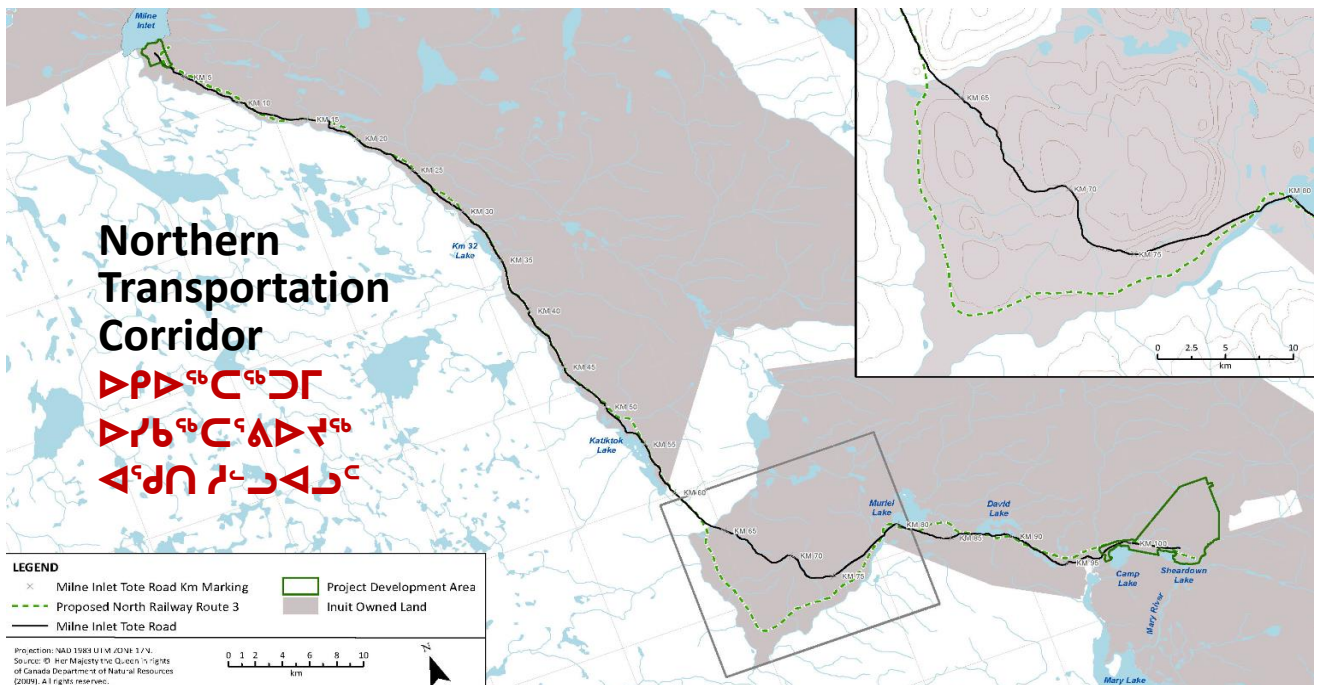
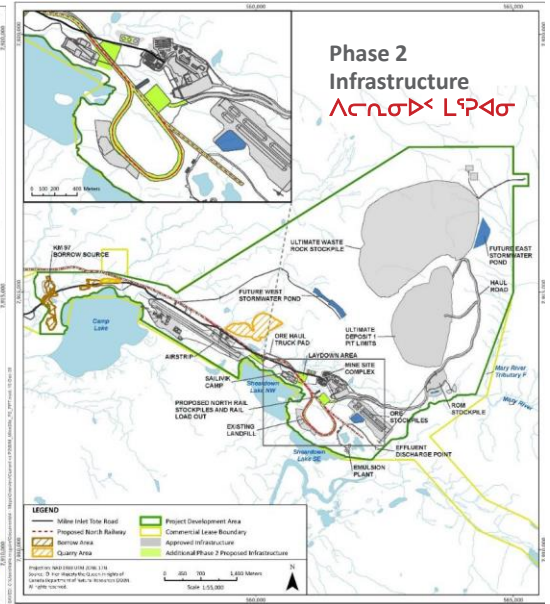
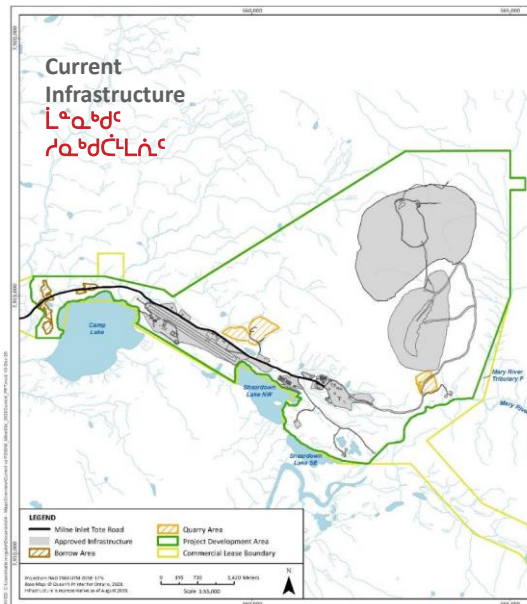
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VIDEO: Phase 2 Information

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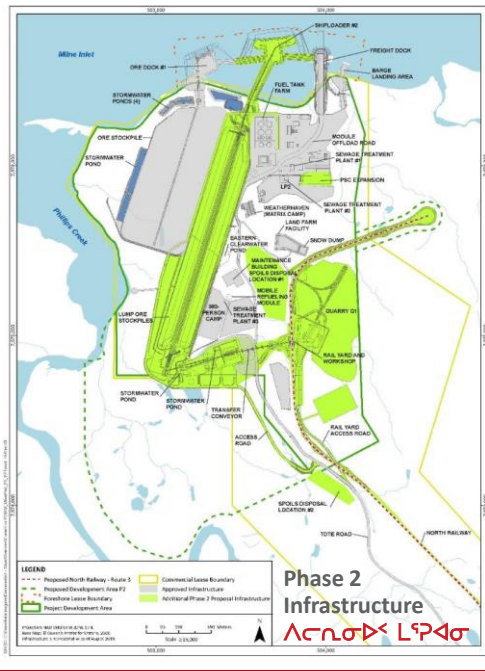
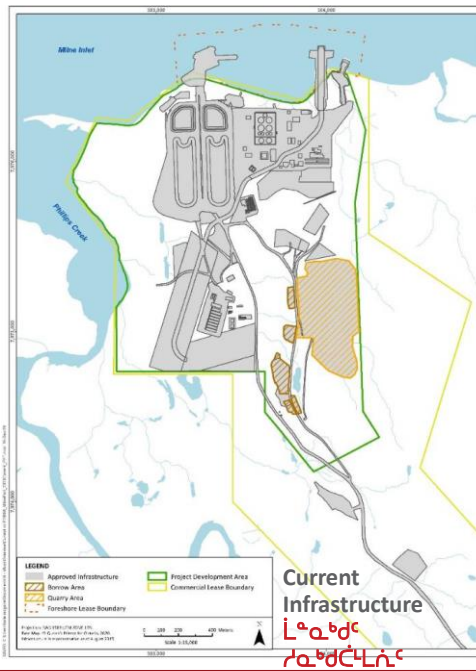
Mine Site

ᐅᐱᑦᐅᑦ
ᐱᑦᐱᑦ



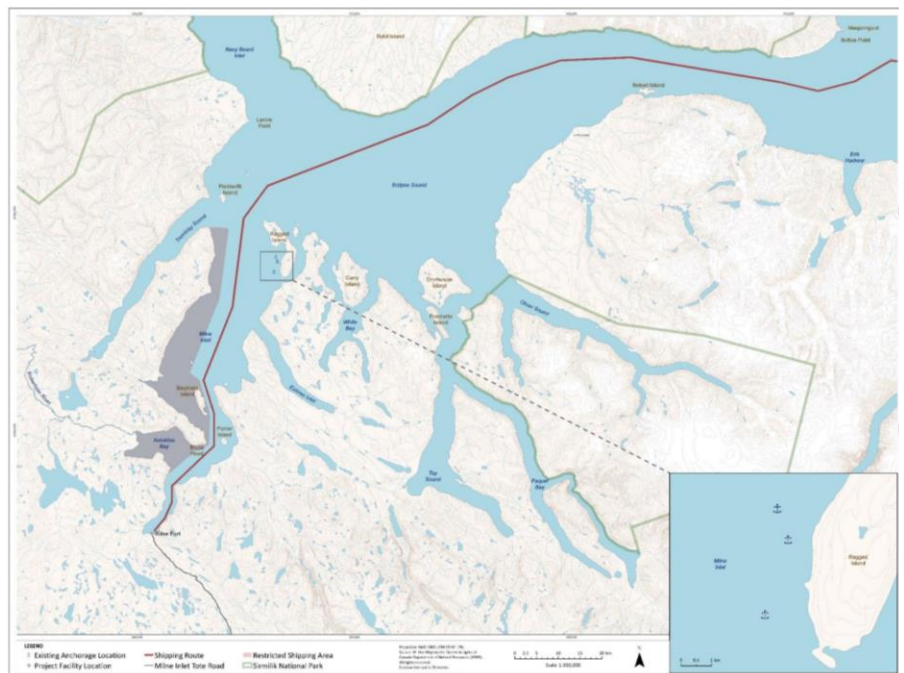
Milne Port

ᐃᓕᓐᓴᓐ
ᐅᓕᓐᓴᓐ



Phase 2 Project Mary River Marine Transportation Corridor

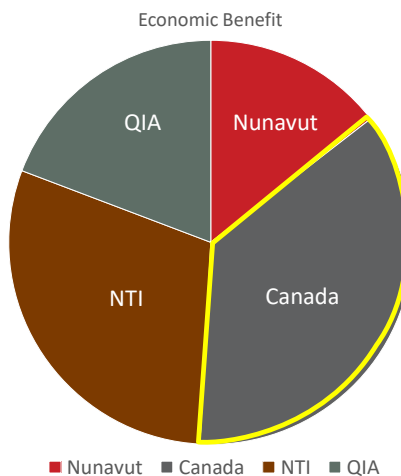
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Projected Economic Benefits from the Project – Taxes and GDP

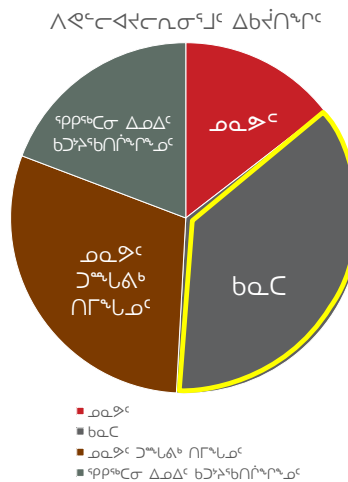
Canada

- Total (life of mine) revenues generated for the Government of Canada: **\$1.7 billion**
- Total Gross Domestic Product (GDP) from Project: **\$30.7 billion**

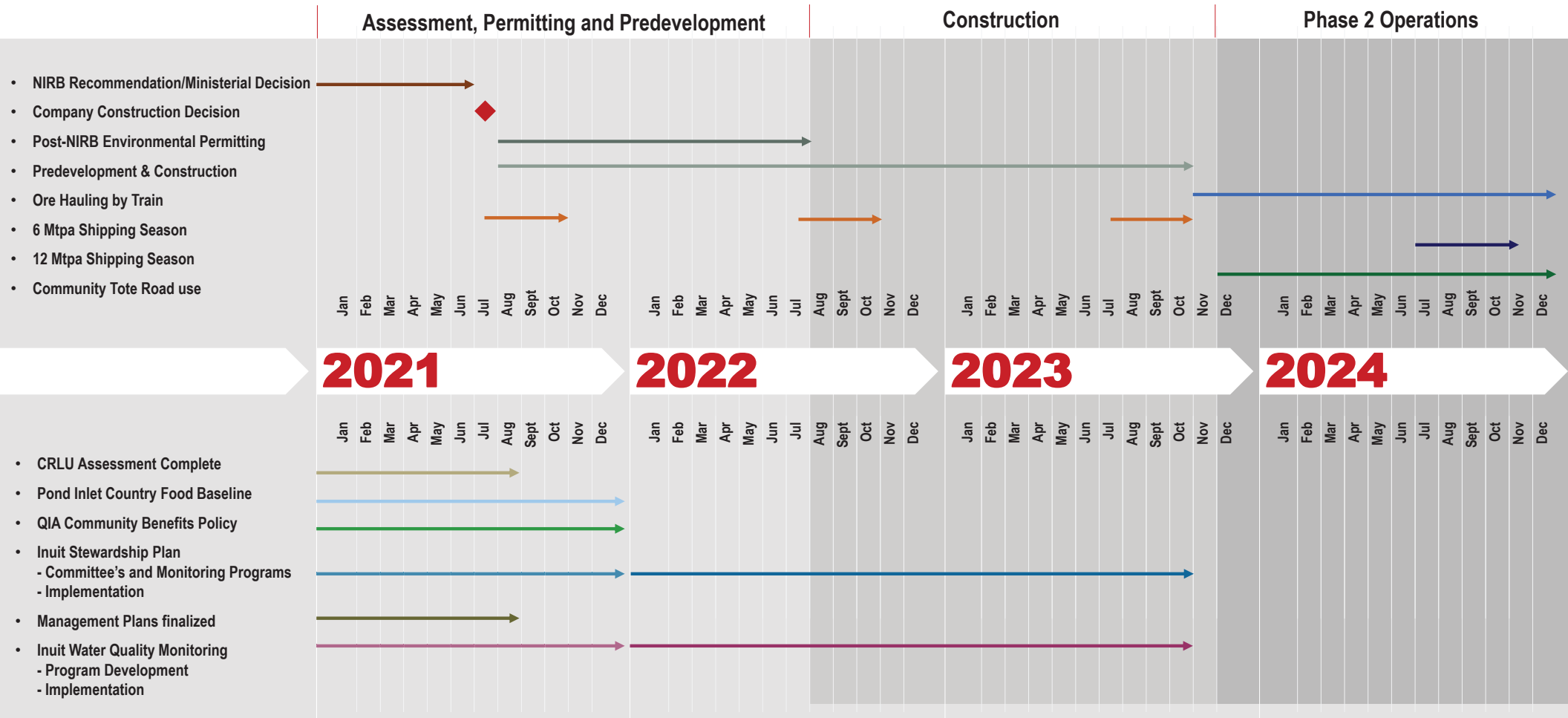
[illegible]

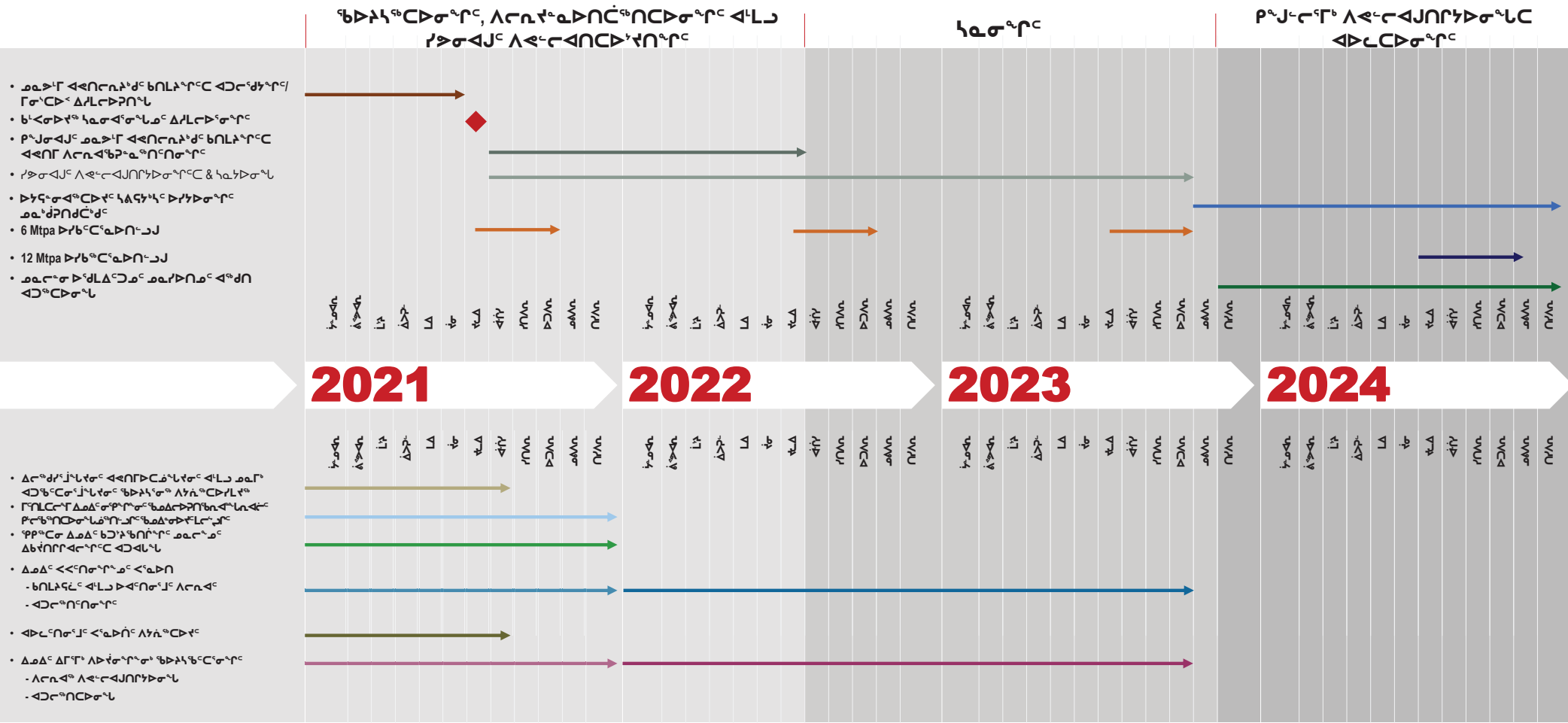
b2C

- ከገንዘብ (ጋራውልድ ስፔሻላይዜሽን) ምድብ ልዩነት ለሚኖረው ከጋራ ለጋራ ስፔሻላይዜሽን: **\$1.7 ልዩነት ምድብ**
- ምድብ ልዩነት ለሚኖረው ለጋራ ስፔሻላይዜሽን ለሚኖረው ልዩነት: **\$30.7 ልዩነት ምድብ**



Phase 2 - Process and Commissioning

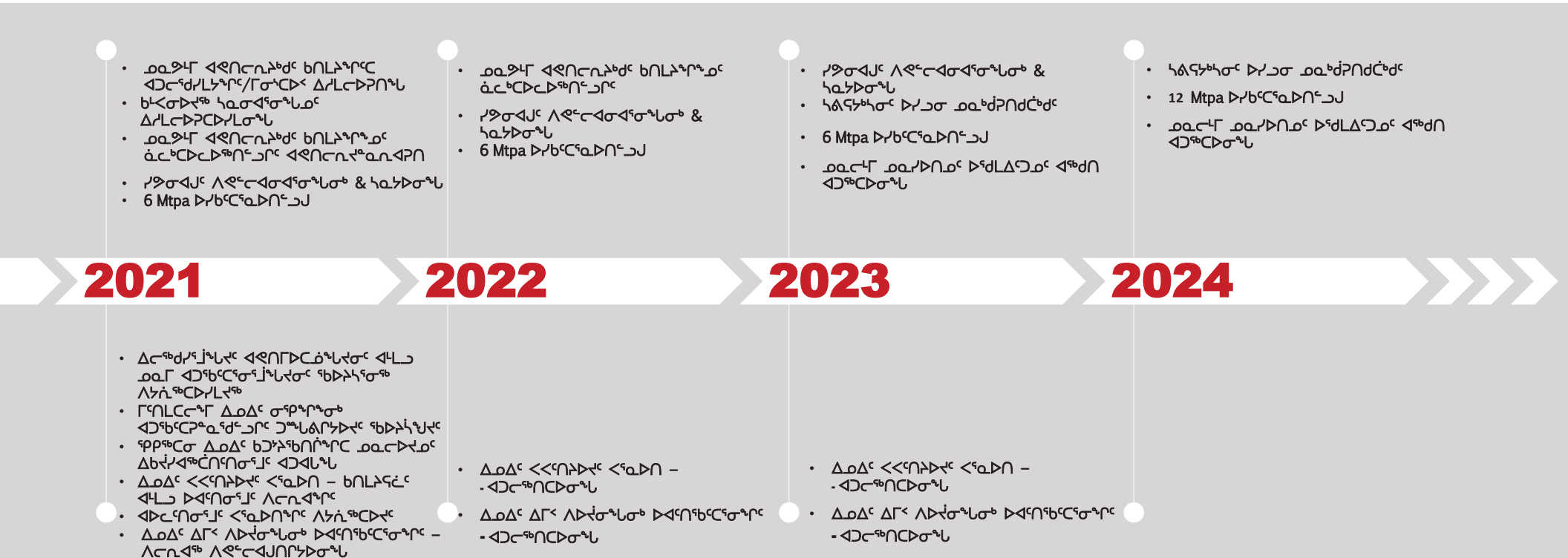




Phase 2 - Process and Commissioning



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Operational Flexibility

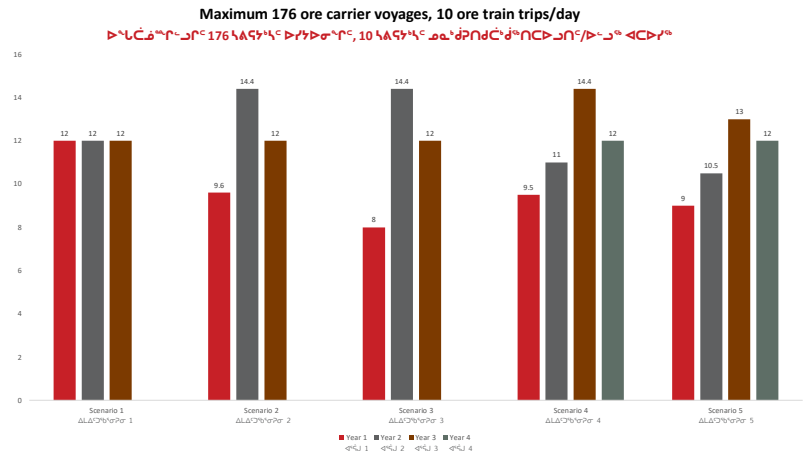
What is Operational Flexibility for Phase 2

புதுலக டிரைவ்ஸ்

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የኢትዮጵያ ፌዴራላዊ ዲሞክራሲያዊ ሪፐብሊክ

- Ability to make up a single or consecutive years of ore production and transportation shortfalls in a single subsequent year by up to 20%



Operational Flexibility

Why it is Needed

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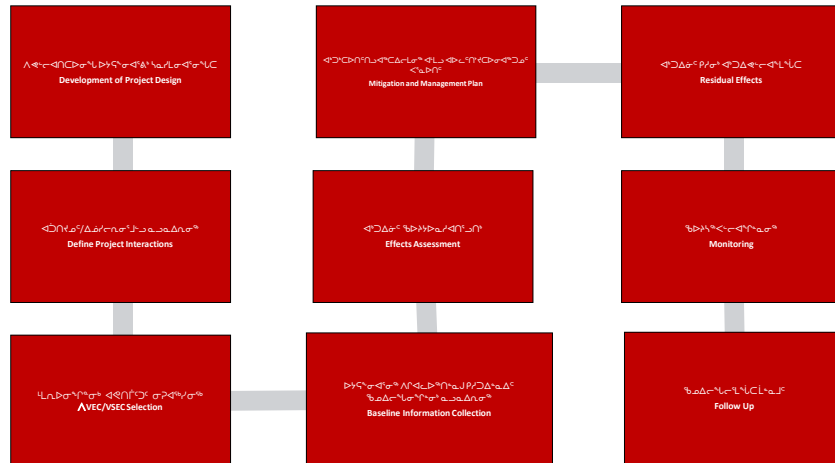
- Mining operations experience variability due to many factors such as ore production, logistics, weather, environmental constraints and market demand.
 ድንኖም ልዩነቶች ምክንያቱም ምርት፣ ሎጂስቲክስ፣ የአየር ንፋስ፣ የአካባቢ ጥንቃቄና የገጠማዊ ጥያቄ ምክንያት ነው።
 ድንኖም ልዩነቶች ምክንያቱም ምርት፣ ሎጂስቲክስ፣ የአየር ንፋስ፣ የአካባቢ ጥንቃቄና የገጠማዊ ጥያቄ ምክንያት ነው።
- Flexibility is required so that when the actual operating conditions reduce how much ore can be mined, transported and shipped, Baffinland can make up for these reductions in future years.
 ለውጥ የሚችል መሆኑን ያስፈልጋል። ምክንያቱም ምርት፣ ሎጂስቲክስ፣ የአየር ንፋስ፣ የአካባቢ ጥንቃቄና የገጠማዊ ጥያቄ ምክንያት ነው።

Project considerations

- The area of disturbance (PDA) will not be increased as a result of Operational Flexibility activities
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- Operational Flexibility is within the boundaries of what was assessed for environmental interactions
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- Activities related to operational flexibility would be subject to the same requirements as normal operations – including operational limits and environmental mitigation and monitoring thresholds
 የአካባቢ ጥበቃ ማረጋገጫ ለማረጋገጥ የሚያስፈልገው የአካባቢ ጥበቃ አይጨምርም

$a \rightarrow a \Delta^{\epsilon_b} C \triangleright \sigma^{\epsilon_r}$
 $\triangleleft^b \supset \Delta \sigma \cap \neg^{\epsilon_r}$
 $\epsilon_b \triangleright \neg \Delta \sigma^b d^c$

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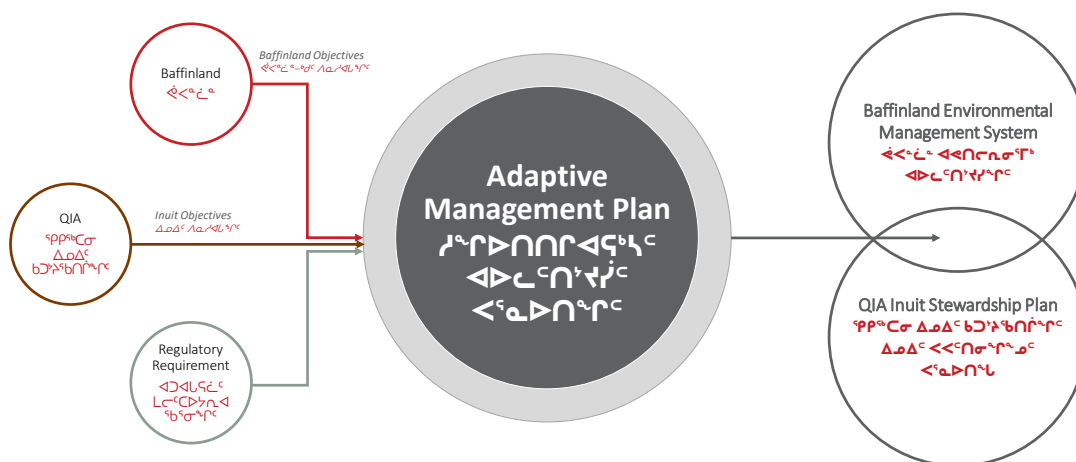
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Project Monitoring Oversight

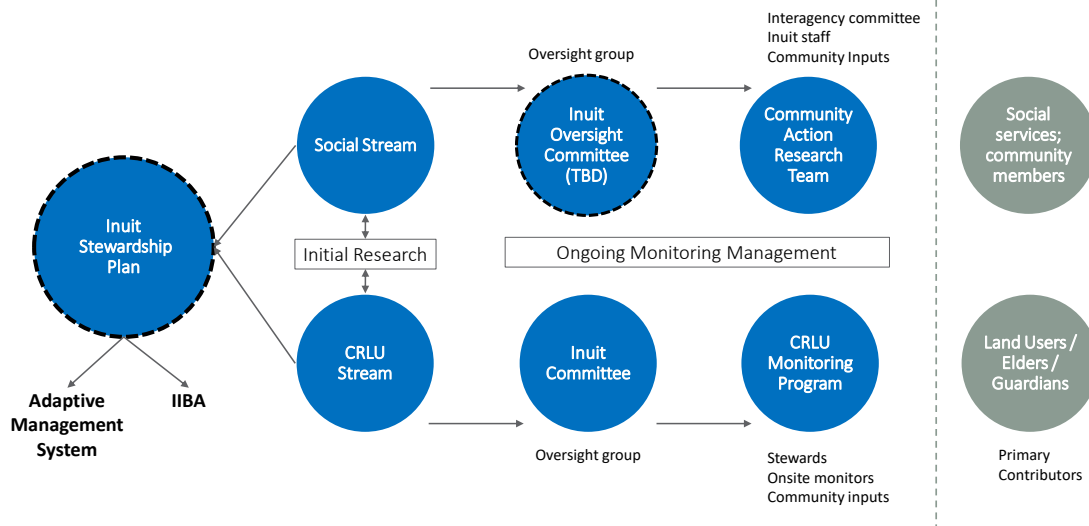
▷⁷↯σ◁⁵ℳ^bΓ◁σℳ▷σ^aℒΔ^aℳ

Site Visits	MHTO and Hamlet visits to the Mary River and Milne Port site to see live operations and discuss issues on the ground.
Inspections / Audits	Regulatory audits or inspections to ensure compliance with existing permits and approvals.
Inuit Participation in Monitoring Programs	Contract employment opportunity or joint-collaboration on environmental monitoring programs.
Input into Additional Mitigation Measure	Submissions of technical comments and response or face-to-face meetings to discuss proposed revisions or additions to existing mitigation measures.
Inuit Stewardship Plan (ISP)	Inuit to monitor and review the Mary River Project and its Phase 2 expansion. Inuit take the lead in monitoring under this plan.

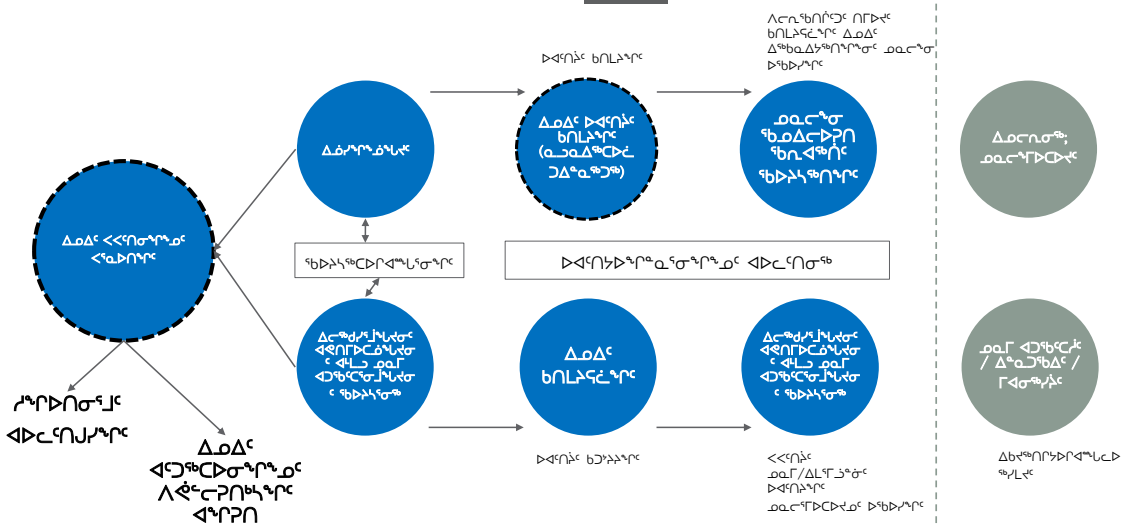
Adaptive Management

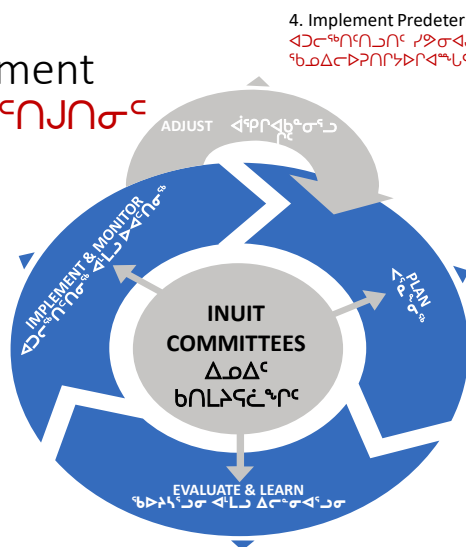


Inuit Stewardship Plan



ΔοΔ' <<Γσ'ρ'μ' <ε'α'Π'ρ'ε'



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Current Status of Technical Issues

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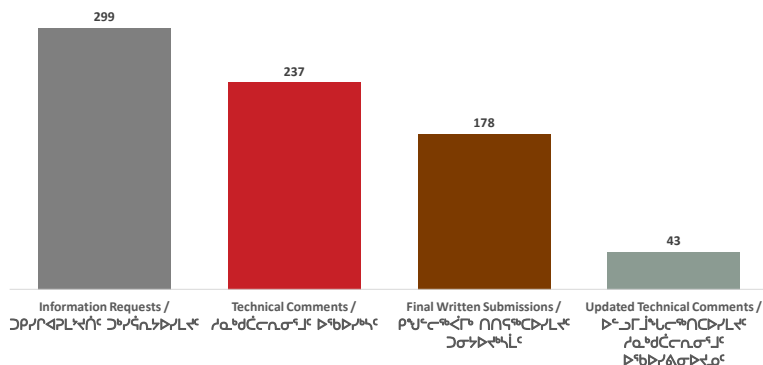
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Phase 2 Proposal

- Corporate Environment: 23
ጋራ ሥራ ላይ ያለው ልማት: 23
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- Human Environment: 21
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The Future of the Mary River Project

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THANK YOU

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