

Marine Environment

Phase 2 Proposal / ᐱᕈᓪᔭᐅᑦᑐᒃᐸᓄᓂᐳᐣᐴᐤ

Public Hearing Iqaluit and Pond Inlet January 2021

ፌዴራል ኢንቨስትመንት ልማት ባንክ ኢትዮጵያ
ክብረ 2021

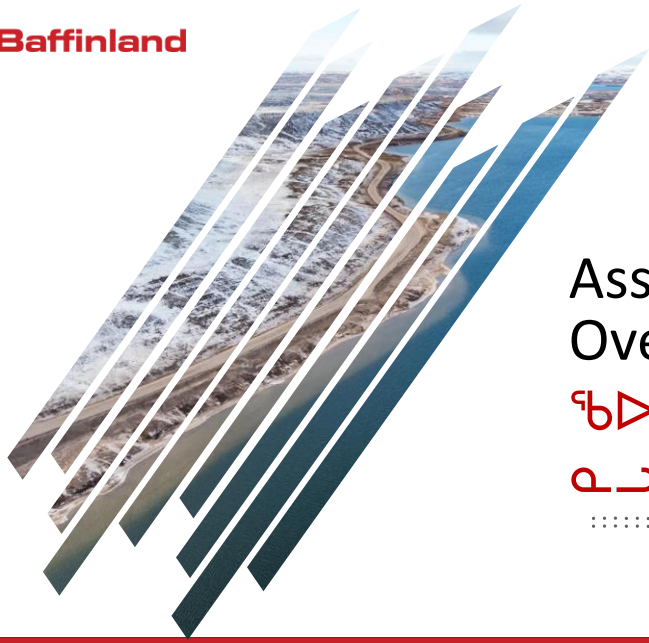


Presentation Overview

▷σ^bḃ[<] 𐤀𐤏𐤁𐤏𐤏^{ᶜᵇ}𐤇𐤏𐤏^ᶜ

- **Assessment Approach and Overview**
ፍፅረኛ ስራ ምርጫ ለፍፅረኛ ስራ ምርጫ
- **Construction & Operation at Milne Port**
ላይን ስራ ለፍፅረኛ ስራ ምርጫ
- **Shipping**
ፍፅረኛ ስራ ምርጫ
- **Assessment Conclusion**
ፍፅረኛ ስራ ምርጫ
- **Technical Review Process Summary**
ፍፅረኛ ስራ ምርጫ
- **Summary**
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Assessment Overview

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Assessment Approach – Operational Knowledge

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Building on past approvals

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- Multiple environmental impact review processes
ᐅᐱᐅᐱᕐ ᕐᕈᕐ ᕐᕈᕐ ᕐᕈᕐ ᕐᕈᕐ
ᕐᕈᕐ ᕐᕈᕐ
- Deep understanding of key risks
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ᕐᕈᕐ ᕐᕈᕐ



Integration of key learnings as operations
grow / $\Delta C \triangleright \sigma^b$ $\Delta L \triangleright \Pi^c \Pi^{\sigma^b}$ $\triangleleft L C \triangleright \tau^b$
 $\Lambda P^{\sigma^b} \triangleleft \epsilon \triangleleft \Pi \neg J$

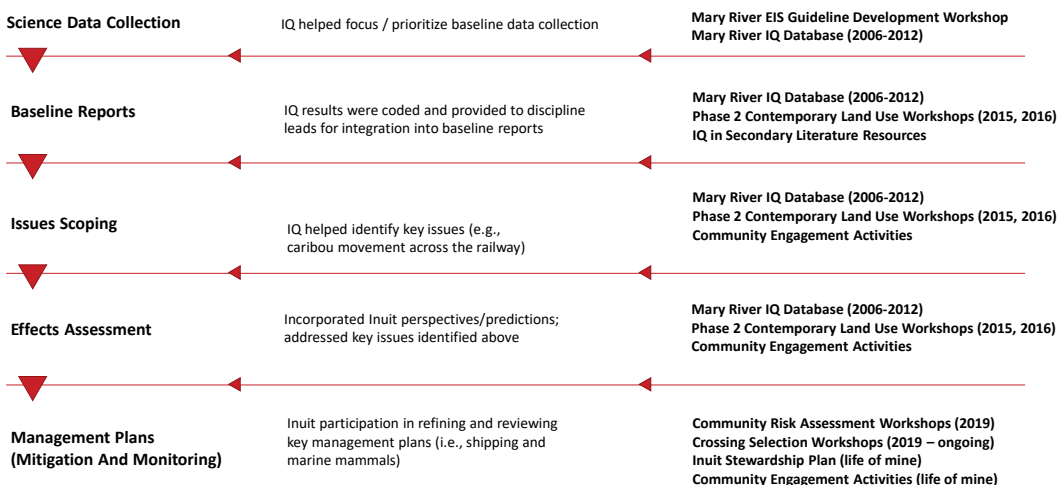
- Implementation of mitigation and management measures over 6 years



- [illegible]



- [illegible]



[illegible]

Assessment Approach – Thorough and Accurate

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‘ᖃᐅᔨᕿᐃᓂ’ᖃᑦᑎᐸᑭᐅᓂ ᔪᑦᑎᐸᑭᐅᓂᐅ

- Empirical-based Modelling
በጥናታዊ ምርመራዎች ላይ የተመሰረተ ሲሆን
- Conservative model assumptions
በጥናታዊ ምርመራዎች ላይ የተመሰረተ ሲሆን
- Multiple, effective mitigation measures
በጥናታዊ ምርመራዎች ላይ የተመሰረተ ሲሆን

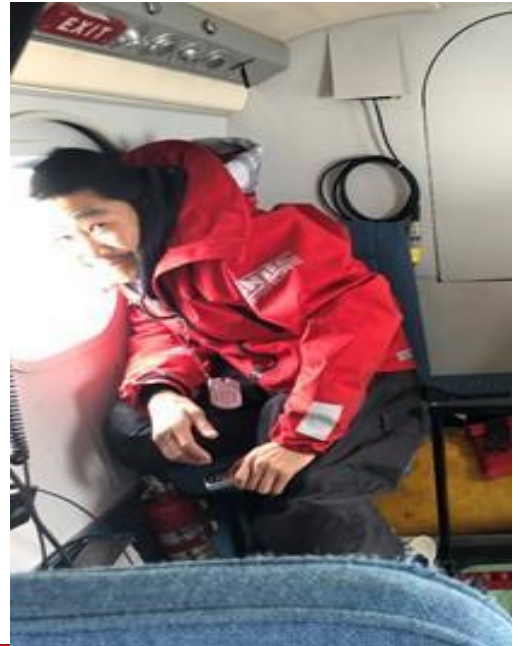


Assessment Approach – Thorough and Accurate

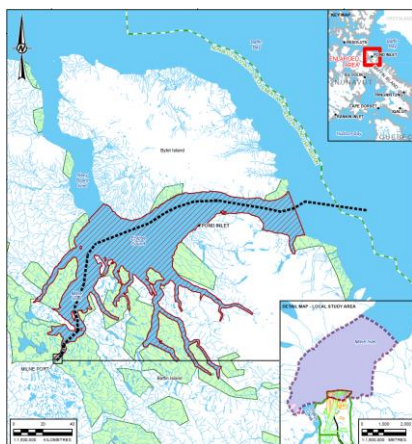
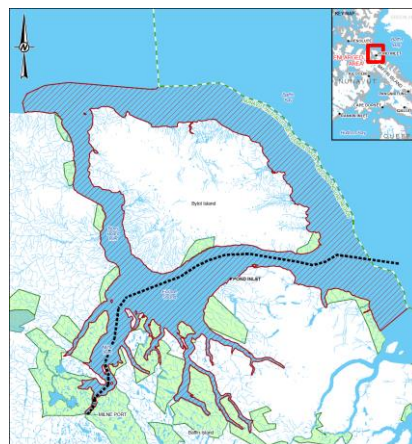
‘ፍጥረት’፣ ‘ፍጥ’፣ ‘ፍጥነት’ –

ፍጥረትና ሕይወት ለሕዝብ ጥቅም

- 10+ years of data collected
10+ ልዩ ልዩ ዓመታት ለመረጃ ልማት
- Over 30 regional studies
በ30 የኢትዮጵያ ክልሎች ምርመራዎች
- Peer reviews
በሌሎች ምርመራዎች የተረጋገጠ
- Adaptive management approach
የተለየ የሆነ የመቆጣጠር ዘዴ



Study Areas

[illegible]Marine Environment / **ΔL⁹⁵**Marine Mammals / 

- LEGEND**
- COMMUNITY
 - SHIPPING ROUTE (APPROXIMATE)
 - PDA / QA COMMERCIAL LEASE
 - WATERCOURSE
 - EXISTING FREIGHT DOCK AND CAUSEWAY
 - EXISTING ORE DOCK
 - NEW ORE DOCK AND CAUSEWAYS
 - LOCAL STUDY AREA
 - REGIONAL STUDY AREA
 - INAC FORESHORE LEASE
 - NUNAVUT SETTLEMENT AREA BOUNDARY
 - NUNAVUT LAND CLAIMS AGREEMENT – POND INUIT OWNED LAND
 - WATERBODY



ለፍርሃት ማረጋገጫ ምክር ቤቱ የሚሰጠው ልዩ ልዩ ምክር ቤቱ

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[illegible]

- [illegible]

[illegible]

- [illegible]





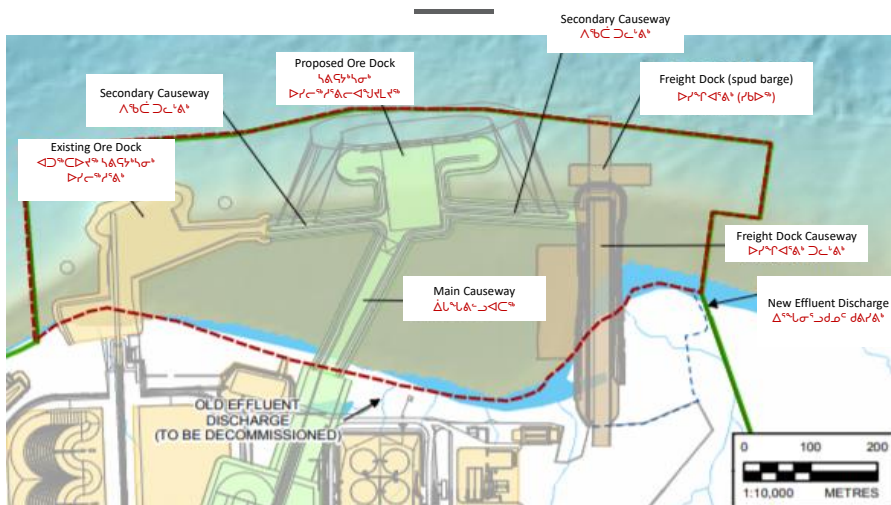
Construction & Operation at Milne Port

ካሊንፖርት
& ልገረርገርት ነዋሪ
ጋረርገርት

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Construction & Operation ካሊንፖርት ልገረርገርት



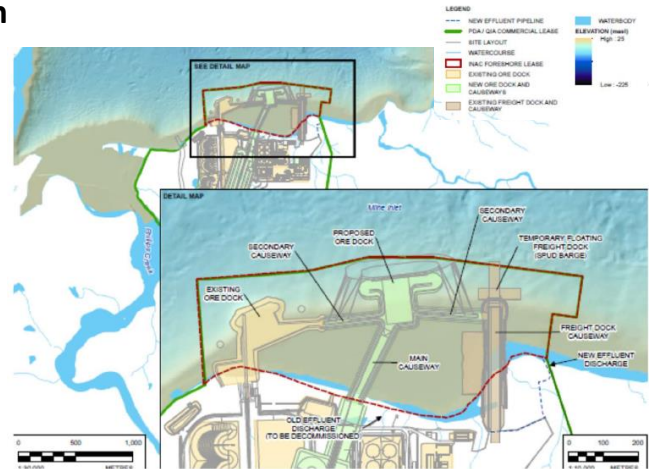
Port Construction – Habitat Alteration

ᐅᓕᓕᓐᐱᑦ ᑭᓇᓂᐅᓂᓐᓂ - ᓇᓕᓕᓐᐱᑦ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ

Phase 2 Ore Dock Design Overview ᐅᓕᓕᓐᐱᑦ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐅᓕᓕᓐᐱᑦ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ

Phased approach to reduce impacts to marine environment

ᐅᓕᓕᓐᐱᑦ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ
ᐅᓕᓕᓐᐱᑦ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ



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Mitigation – Port Construction

ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ - ᐅᓕᓕᓐᐱᑦ ᑭᓇᓂᐅᓂᓐᓂ

- Best management practices during in-water construction including:
ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ
- Silt curtains
ᑭᓇᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ
- Underwater noise management plan
ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ
- Following the guiding principles for offsetting
ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ ᐱᓐᓂᐅᓂᓐᓂ

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Port Operation – Ballast Water Impacts

[illegible]

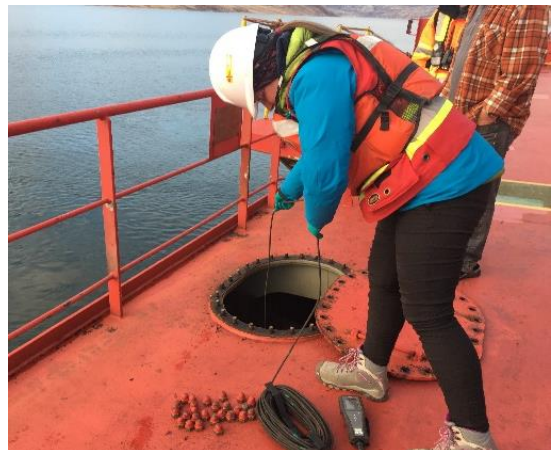
- 2017/2018 (TSD18)**
- Co-developed advanced model with Danish Hydrographic Institute (DHI) Water & Environment ኢንተርናሽኖናል ወተብ ግጭትና አየር ንፁህነት ቤት
- Calibrated to 2014 data
2014F ላይ የተመሰረተ መለኪያ እውቀት በማድረግ
- 3-month simulation
ርምጃ ምስል ማስተካከል
- Modelled Existing and Proposed conditions
በአሁን እና በተጀመሩት ሁኔታዎች ሲሞዴል



Port Operation – Ballast Water Impacts

[illegible]

- **2019 Updated Modelling**
2019 ሕርግ ለጥንታዊ ልማት ምርመራ
የፍጥነት ምርመራ
 - Included 2018 Milne Inlet oceanographic and ballast water data
ጥንታዊ የፍጥነት ምርመራ 2018-ጥንታዊ ልማት ምርመራ ለጥንታዊ ልማት ምርመራ ምርመራ
 - Assessed potential temperature and salinity changes in ambient water
የፍጥነት ምርመራ ለጥንታዊ ልማት ምርመራ ምርመራ ለጥንታዊ ልማት ምርመራ ምርመራ



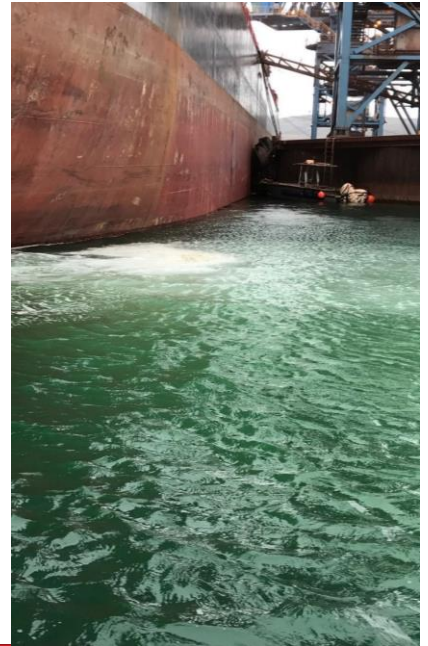
Port Operation – Aquatic Invasive Species Monitoring & Mitigation

[illegible]

ΔL^ᄇᄃσ^c ᄂLσ^ᄆ▷C▷^ᄆᄃᄃ^ᄆᄃ^ᄆ

ငါ့မလှူဘဲ ငါ့မိခင်မိဘတွေကလေးနဲ့ ပါဝင်စေ

- [illegible]



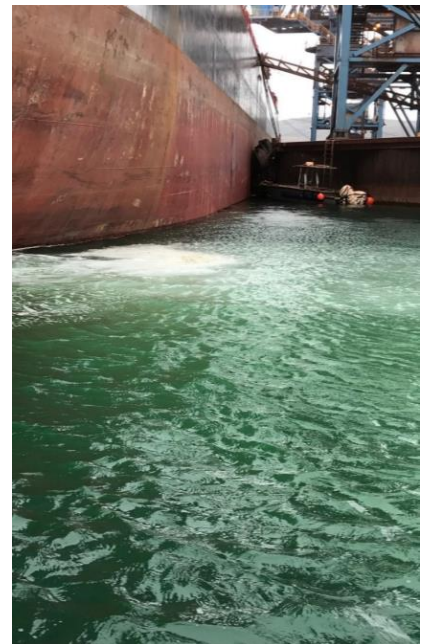
Port Operation – Aquatic Invasive Species Monitoring & Mitigation

3C3A< 44C>σ^al -

[illegible]

ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅԱՆ

- [illegible]



Port Operation – Aquatic Invasive Species Monitoring & Mitigation

ᐃᓚᑦᑕᑦᐱᑦ ᐱᐃᐃᓚᑕᐃᓂᑦ -

ΔΛ'Γ'Δσ' ΓΛσ'ΓΔΓΔ^αΓ'ΔΔ'β'σ'

[illegible]

- Commitment to supporting the development of a trigger list of high biological risk species or groupings of species of concern and associated response plans

Δb¹⊃Δσ¹σ¹ΓL¹Λ¹⊂⊂⊂σ¹Δ¹⊃

[illegible]

፲፭፻፳፱ ዓ.ም. ጥቅምት ፳፱ ቀን

[illegible]

Port Operation – Impact of Dust

3C^cC^aA^b ◀▶CC▶σ^aL -

◀^c▷Δσ^qb^qσ^qρ^c▶^c

Results to-Date

‘ኔፈረናዊ’ ጥያቄ ይታይ

- Increased stockpiling of ore at Milne Port may increase iron concentrations in the marine environment

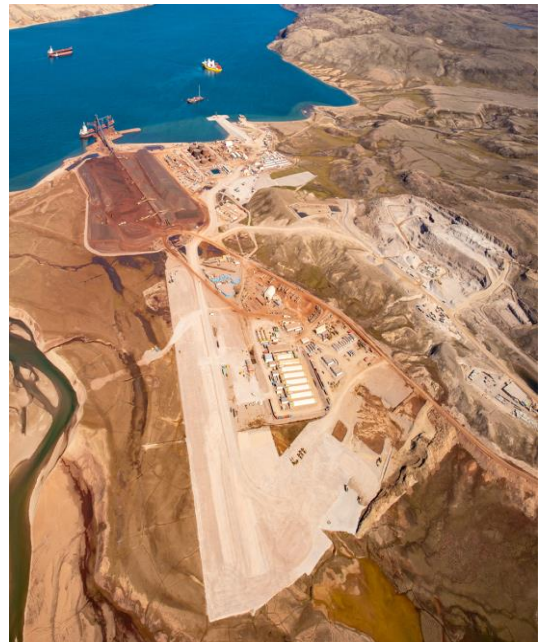
[illegible]

ጋራ ርዕሰ ልሳሌና ክልላዊ ኮሚቴዎች በጋራ ልማት ለሰራተኛ ርዕሰ ልሳሌ.

- Baseline monitoring indicates that iron is already abundant in the receiving environment (pre-Project)

[illegible][illegible]

ፊርማዎን ማስቀመጥ ይገባል፡

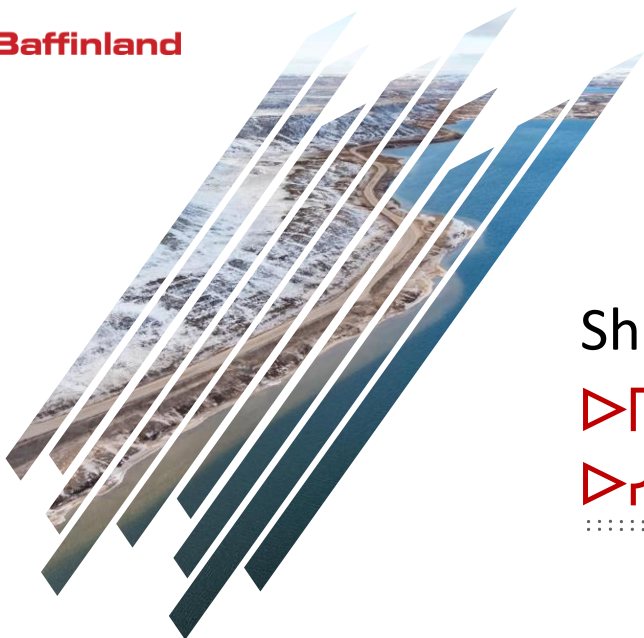


Port Operation – Dust Monitoring

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[illegible]

- Since start of operations (2015-2019), no significant increase in iron concentrations in sediment relative to baseline.
ᐃᑦᓇᓕᓂᓯᐱᓪᓴᓚᓕᓂᓄᓗ (2015-2019), ᐸᓯᓲᓂᐱᐳᓚᓚᓚᓂᓄᓗ ᐱᓪᓴᓚᓕᓂᓄᓗ ᓲᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ.
- Metal concentrations in fish tissue have been relatively consistent between 2010 and 2019 and are aligned with expected natural variability.
ᐱᓪᓴᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᓂᓄᓲᓂᓄᓗ ᐸᓯᓲᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ 2010 ᓂᓄᓲᓂᓄᓗ 2019 ᐸᓚᓂᓄᓗ ᓂᓄᓲᓂᓄᓗ ᓂᓄᓲᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ.
- Notably, iron concentrations have tended to decrease in Arctic Char in recent years compared to pre-Project.
ᐅᓂᓲᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ, ᐱᓪᓴᓚᓂᓄᓗ ᓂᓄᓲᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ ᐅᓂᓚᓂᓄᓗ.



Shipping

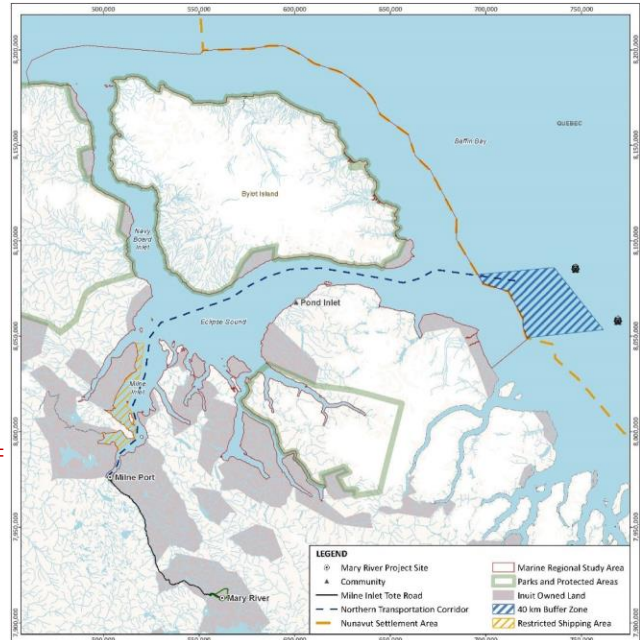
▷ ▮ ◁ 9 ↺ ◁ C

[illegible]

Shipping Activity Overview – Route

▷Γ◁^၃▷▷^၆▷^၄▷^၅
◁^၆▷▷^၇▷^၈▷^၉▷^{၁၀}

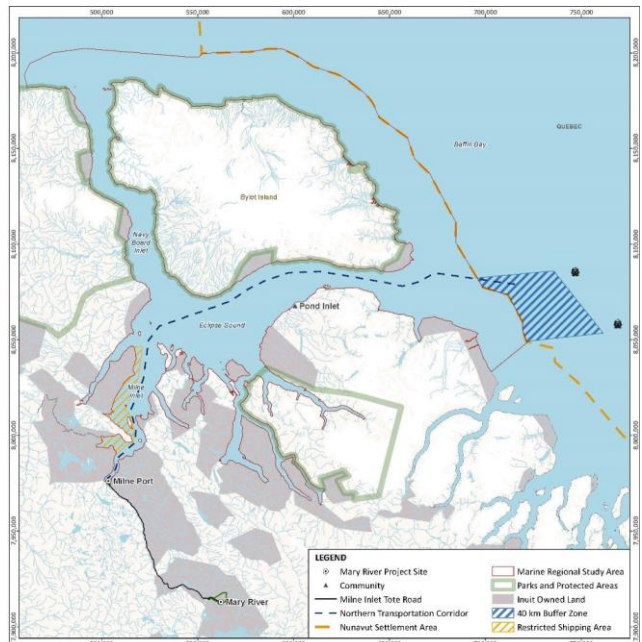
- [illegible]



Shipping Activity Overview – Route

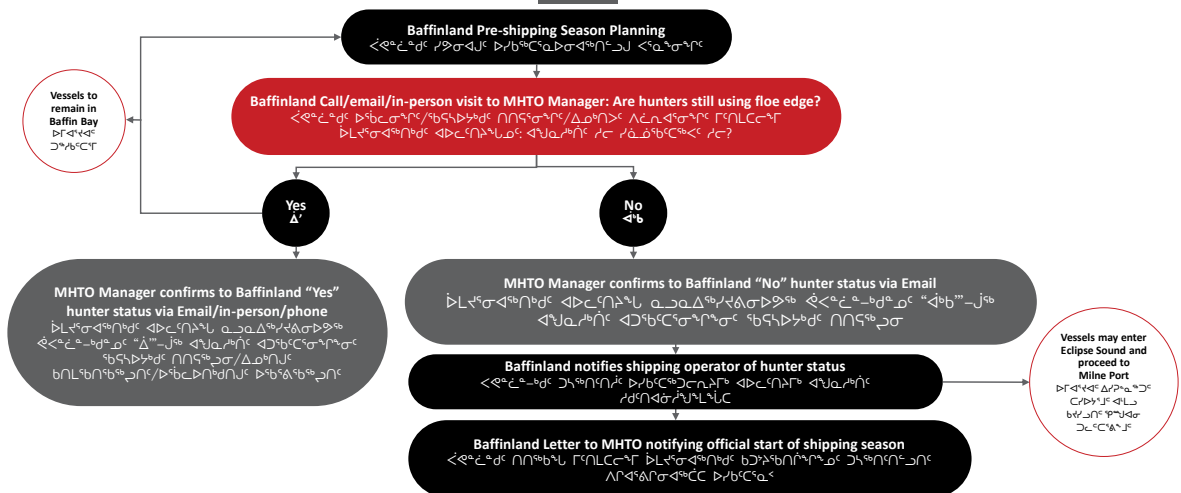
▷ᠦᠨᠡᠭᠤᠯᠢᠰᠣᠷᠪᠡᠬᠡᠴᠢᠳᠤᠨ
ᠲᠥᠮᠤᠩᠭ᠎ᠠᠶᠢᠰᠤᠯᠤᠰ - ᠠᠵᠢᠸᠠᠨ

- Established set-back area 40km from Nunavut Settlement Area at start of shipping season
 $\Delta^b P^c C D \Gamma L^c \subset D \cap \cap \Delta^c \delta \Delta^c a^c \subseteq \subseteq L 40km C \Delta b^a L^c$
 $\Delta a^c \subseteq \Delta C^c P C D \Gamma L^c \delta^c \subseteq \subseteq \Delta^c \Gamma \Delta \Delta^c L^c \supset \Gamma b^b C^c a^c \subseteq$
- Notifications triggered when vessels:
 $\supset \Gamma^b \cap C D \Gamma^c \supset \Gamma \Delta^c \Gamma \Delta^c:$
 - Deviate off route
 $\Delta^c \Gamma^c \subseteq \subseteq \subseteq \Delta^b C^c \Gamma^c \cap \supset \cdot \subseteq \Delta^c L C$
 - Speeds exceed voluntary 9 knots
 $\Delta^c \Gamma^c \subseteq \subseteq \Gamma^c \Gamma^b \cdot \subseteq \Gamma^c \supset \subseteq C D \supset \Gamma^c \cap \cap \supset \supset \Gamma^c$
 $9 \Gamma^b \cdot \subseteq \Gamma^c$

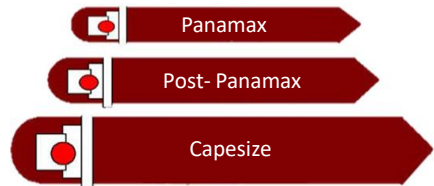




Shipping Activity Overview – Start of Shipping Season

[illegible]

Shipping Activity Overview – Vessel Size



Similar size to Crystal Serenity cruise ship / ᐅᑦᓴᕈᕋᒃ ᐅᑦᓴᕈᕋᒃ Crystal Serenity

Shipping Activity Overview - Vessel Speeds

[illegible]

- 9 knot restriction for all Project vessels in regional study area

[illegible]

Vessel Type / ስያሜ ስም	% time under 9 knots (2019 data) / % ስርዓት 9 knots (2019 ዓ.ም.)
Project Ore Carriers ፖሮጀክት ሳንዳውስ	99
Project Icebreaker ፖሮጀክት ሳንዳውስ	99
Cruise Ships ሪክሮይዘር	32
Coast Guard Icebreakers ፖሮጀክት ሳንዳውስ	35



Shipping –

No Acoustic Injury

[illegible]

- No potential for acoustic injury (temporary or permanent), based on both modelling and field data
 $\Delta P_{\text{acoustic}} < P_{\text{threshold}}$ (Acoustic pressure change < threshold)
 $P_{\text{acoustic}} < P_{\text{threshold}}$ (Acoustic pressure < threshold),
 $P_{\text{acoustic}} < P_{\text{threshold}}$ (Acoustic pressure < threshold)
 $P_{\text{acoustic}} < P_{\text{threshold}}$ (Acoustic pressure < threshold)
 $P_{\text{acoustic}} < P_{\text{threshold}}$ (Acoustic pressure < threshold)
- Mitigation measures effectively reduce spatial and temporal overlap with vessel noise
 $P_{\text{acoustic}} < P_{\text{threshold}}$ (Acoustic pressure < threshold)
 $P_{\text{acoustic}} < P_{\text{threshold}}$ (Acoustic pressure < threshold)
 $P_{\text{acoustic}} < P_{\text{threshold}}$ (Acoustic pressure < threshold)

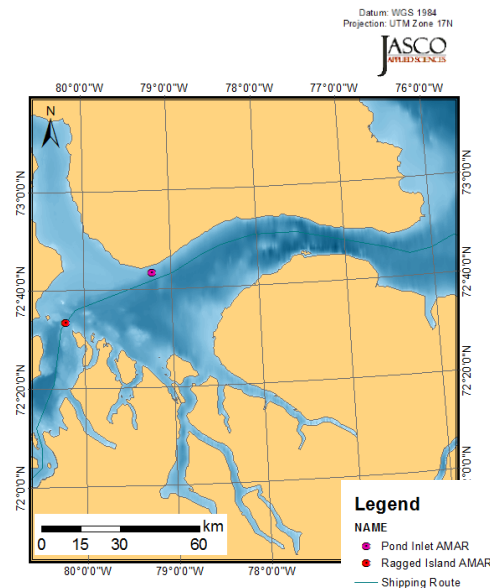


Shipping –

Behavioural Disturbance

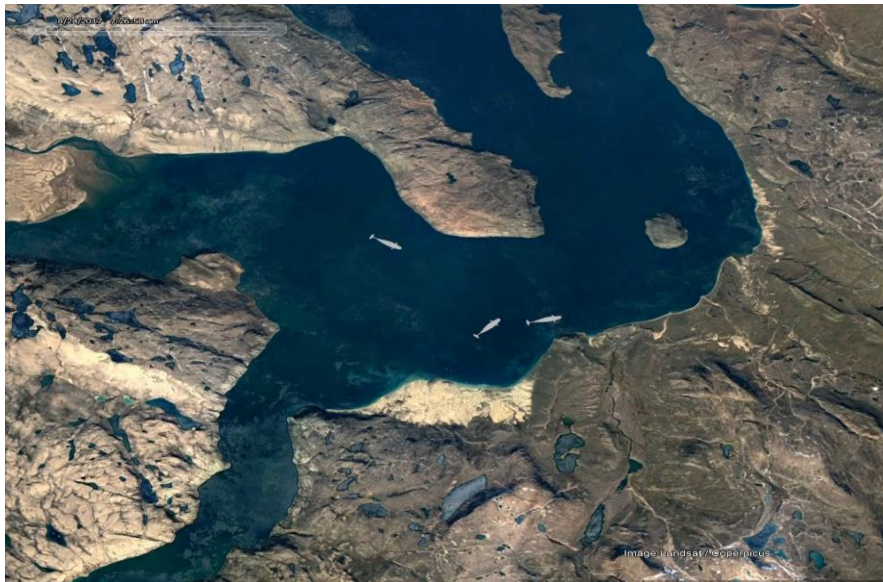
[illegible]

- [illegible]



Shipping – Behavioural Disturbance

ᐅᐱᑦᑕᑦᑭᑦ - ᐃᑦᑭᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᑕᑦᐃᐱᑦᑕᑦᑭᑦ



- Animation of tagged narwhal in relation to active shipping during open water season

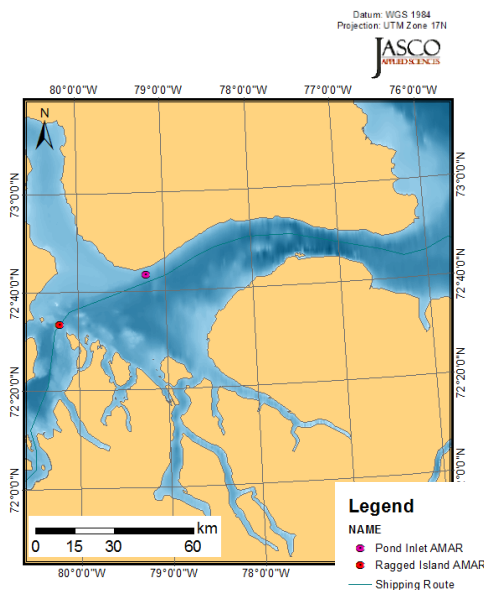
ᐅᐱᑦᑕᑦᑭᑦ
ᑕᐃᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ
ᐅᐱᑦᑕᑦᑭᑦ
ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ



Shipping – Behavioural Disturbance

ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ - ᑕᐃᐱᑦᑕᑦᑭᑦ
ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ

- Mitigation measures will reduce source levels (such as speed restrictions) and overlap (such as limiting # of transits in heavy ice)
ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ
ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ
ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ
ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ
- Residual effect characterised as not significant
ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ

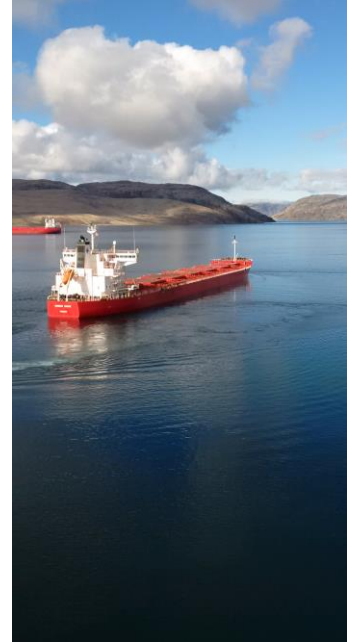


www.baffinland.com

Underwater Noise Assessment: Mary River Iron Mine Created Feb 2019 by Melanie Austin
ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ ᐅᐱᑦᑕᑦᑭᑦ

Temporary Acoustic Masking

- Narwhal generally communicate at higher frequencies than vessel noise and may use natural anti-masking strategies
ኃሰሮ ሲጠቀሙ ማለትም ኃይል የሚበልጥ ሆኖ ባለው ድምፅ ላይ ሌላ ድምፅ መዳከም አስቸኳይ ነው
- Mitigation measures effectively reduce spatial and temporal overlap with vessel noise
የተዘጋጀውን የአካባቢ እና የጊዜ ሽርክል በመቀነስ የድምፁን ምትኬም ይቀንሳል



- Ice entrapment naturally occurring phenomenon,
documented in Arctic for hundreds of years /
 $\text{ᐱᓕ ᑭᔪᑦ ᑐᒃᑲᑦ ᐸᓚᑎᓂᑦ ᐳᓄᓂᑦ ᐅᑏᑦ ᐵᑦ$
 $\text{ᐴᓗᑯᓂᑦ, ᑎᑎᑦᑶᑦ ᐷᑰᓖᓙᓂᑦ ᐆᑦ ᐼᑦᐳᓇᑯᓂᑦ ᐸᓚᑦ}$
 $\text{ᐉᓂᑦ ᐹᓛᓂᑦ ᐸᓚᑥᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ}$
- Baffinland has committed to a post-season narwhal
clearance survey and development of entrapment response
framework with MHTO and DFO /
 $\text{ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ}$
 $\text{ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ ᐸᓚᑦ}$



Shipping – No Vessel Strikes

[illegible]

- With mitigation, no strikes anticipated
 ▷ ስለሚጠበቅ ምርመራ ለጥቅም ሆኖ ሊገለጽ ይችላል፤
 ጋራ ምርመራ ለጥቅም ሆኖ ይገለጻል።
- 13 knots considered speed threshold above which mortality is likely (based on literature)
 13 knots-ው ለጥቅም ሆኖ ሊገለጽ ይችላል፤ ጋራ ምርመራ
 ጋራ ምርመራ ለጥቅም ሆኖ ይገለጻል።
- 10 knot restrictions for endangered species based on DFO Annual Guidance to Mariners
 10 knots-ው ለጥቅም ሆኖ ሊገለጽ ይችላል፤ ጋራ ምርመራ
 ምርመራ ለጥቅም ሆኖ ይገለጻል።
- 9 knot speed restriction in regional study area is more conservative, goes above and beyond existing precedent, and notably minimizes strike potential
 9 knots ለጥቅም ሆኖ ሊገለጽ ይችላል፤ ጋራ ምርመራ
 ምርመራ ለጥቅም ሆኖ ይገለጻል።
- Compliance is diligently and transparently monitored – a notification system is in place that alerts Baffinland staff if a vessel exceeds the 9 knot speed limit for fast corrective action or investigation.
 ለጥቅም ሆኖ ሊገለጽ ይችላል፤ ጋራ ምርመራ
 ምርመራ ለጥቅም ሆኖ ይገለጻል።

Marine Monitoring

Objectives:

Measure the effects that the shipping is having on the marine environment

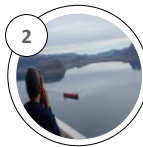
Assess the accuracy of predictions of effects

Determines if adaptive mitigation measures need to be developed



Aerial Survey

Monitor narwhal abundance and distribution (Eclipse Sound summer herd) and other marine mammal species in Project area



Bruce Head Shore-based Monitoring

Investigate narwhal response to shipping along the Northern Shipping Route by observing them from top of Bruce Head



**Marine Environmental
Effects and Aquatic
Invasive
Species/Habitat Offset**

Ballast water and video monitoring of vessel hulls
Water quality, sediment, metals
Fish abundance and health
Ongoing monitoring for the construction of ore and freight docks



Ship-based
Observer
Observe for
potential ship
strikes

5 Inform vessel
Master if marine
mammals are
trapped or
disturbed

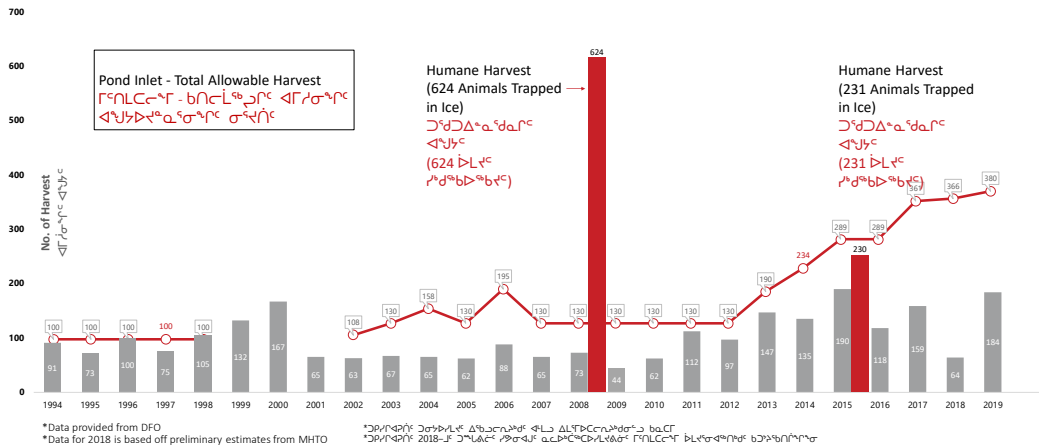


Acoustic Monitoring
Confirm accuracy of noise modelling



Inuit Stewardship Plan

Recorded Harvest Data



Narwhal Early Warning Indicator Monitoring

[illegible]

Requirement to Identify Marine Mammal EWIs in other Marine Development Projects in Canada

ፊርማዎን በዚህ ምረቃ ስርዓት ላይ ያስቀመጡ፡

[illegible]

Annual Proportion of Immature Narwhal Recorded during the Bruce Head-Shore-based Monitoring Program

¹Pilot vessel-based monitoring program re-

Year / ວັນ	Proportion of Immature Narwhal / ອັດຕາຂອງນາວທີ່ຍັງບໍ່ເຕັມ
2014	0.152
2015	0.163
2016	0.164
2017	0.163
2018	N/A / ບໍ່ມີຂໍ້ມູນ ¹
2019	0.156

¹ Pilot vessel-based monitoring program replaced the Bruce Head shore-based monitoring program in 2018. The pilot program was not successful in yielding a comparable dataset for inclusion in this analysis.

For inclusion in this analysis, 167 cases of COVID-19 were identified from the national COVID-19 database. The cases were identified from the national COVID-19 database, which is a database of all COVID-19 cases in Ethiopia. The cases were identified from the national COVID-19 database, which is a database of all COVID-19 cases in Ethiopia. The cases were identified from the national COVID-19 database, which is a database of all COVID-19 cases in Ethiopia.

Narwhal Monitoring – Behavioural Response

3. Երկրորդ փուլի ընթացքում օգտագործվել է Երևանի
 Բնակավայրերի և Բնակավայրերի Բնակավայրերի
 Բնակավայրերի Բնակավայրերի Բնակավայրերի

- Drone footage of narwhal nursing and resting while vessel is transiting southbound



Narwhal Monitoring – Behavioural Response

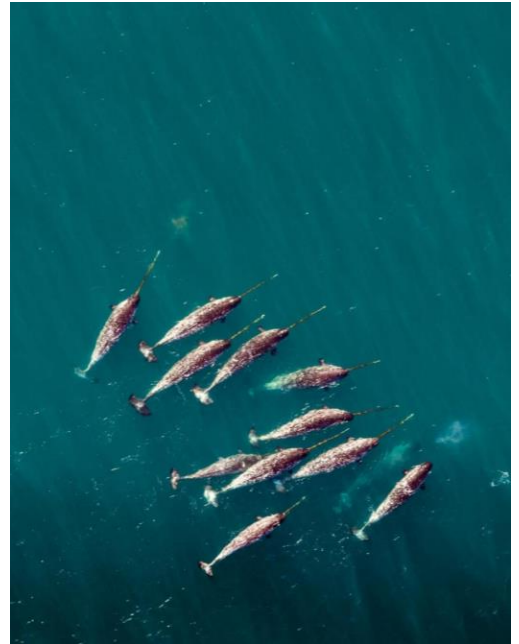
3. **ኃይለማርያም ሥላሴ** ለጥቅምት 1974 ዓ.ም. ለሰላማዊ
 ልማት ምክር ቤት ለመሆን ለመረጥ ለመሆን ለመረጥ
 ለመሆን ለመረጥ ለመሆን ለመረጥ ለመሆን ለመረጥ

- Drone footage of narwhal nursing and resting while vessel is transiting southbound
ᐃᓄᑦᔨᕈᒋ ᖅᗪᕙᑦ ᕛᖅᓴᑦᔭᕐᕇᕆᕉᕘᕚᑦ
ᖅᕏᕘᑦ ᐱᕐጠᑦᑐᑦ ᐤᑦᑎᑦᑐᑦ

Shipping - Summary

▷ፖፕ ልጅ ሙሉ - ልጁ ለፖሊስ ልግ

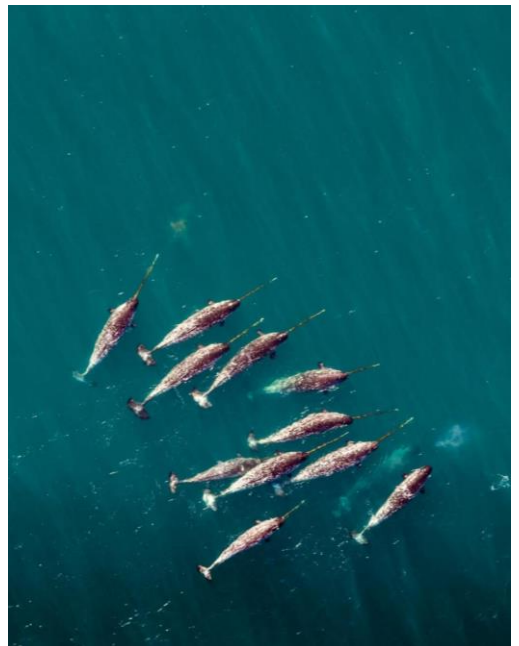
- Assessment is conservative
ክፍል ያለው ምርመራ ለአዲስ አበባ ከተማ
- Narwhal continue to use regional study area in numbers consistent with past years in light of increased shipping activities
ከፊት ተጠቅሞ የነበሩትን አካባቢያዊ መሬት በአዲስ አበባ ከተማ ውስጥ እንዲገኙ ይችላሉ



Shipping - Summary

▷ ԴԵՐՄԱՆՈՒԹՅՈՒՆ – ԵԼԵՄԵՆՏԱՐԻ

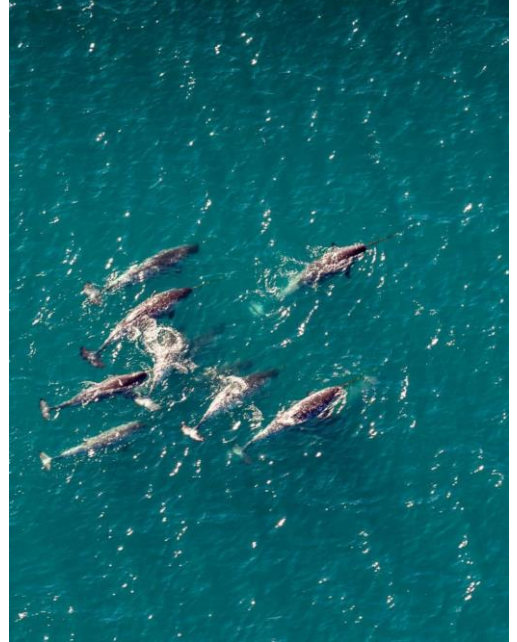
- [illegible]



Shipping - Summary

[illegible]

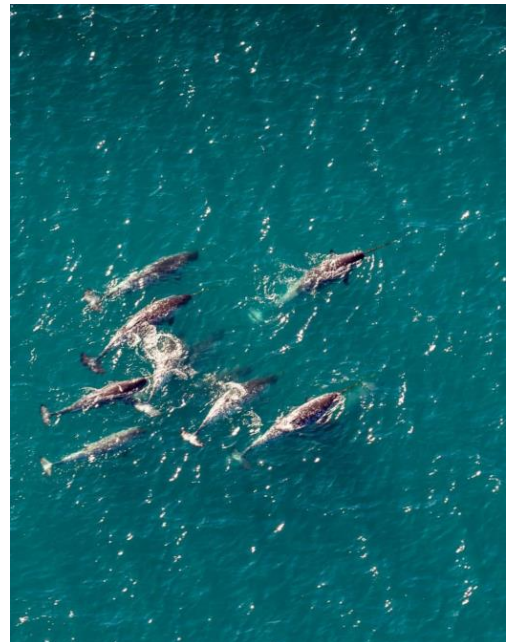
- [illegible]



Shipping - Summary

[illegible]

- Follow-up monitoring, with community, to confirm assessment predictions
ክልተሥንገስ ምርመራ ድምዳሜና የቅሬት መለኪያ ማረጋገጫ፣
የጉዞ አጠቃላይነት ማረጋገጫና የደረሰበት ሕመም መለኪያ
- Marine Environmental Working Group, community members and regulators engaged on monitoring findings & adaptive measures
አጠቃላይ ምርመራና የአካባቢ ጥበቃ ቤት አባላት በጊዜ ሂደት
የጉዞ አጠቃላይነት ማረጋገጫና የደረሰበት ሕመም መለኪያ



◀▶ $c^n \leq n^b$

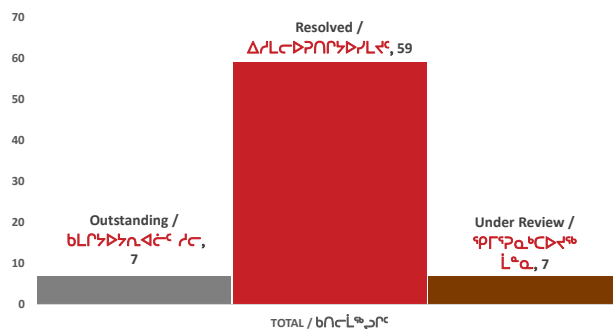
ⁿᵖΓⁿᵖσⁿᵖJᶜ qΔq̇ ⁿᵐᵖLᶜ

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Status of Resolution

ፍጹም ልሳሳት ልሳሳት ልሳሳት ልሳሳት ልሳሳት

ΔL < Δρ₀ℓ



Outstanding and Under Review – Marine Environment

ቴሌቪዥኒያል፡ ስራ ልዩ ማግኛዊርድ - ልዩ ልዩ

Comment Topic / ၎်းပွဲၤမိၣ်ခီၣ် ၵုၢ်	Related ID's / ဩဇာလၢ မံၤမ့ၢ်သ့ၣ်
Ballast Water / ၵုၢ်တူၤတၢ်	QIA-44, MHTO-5e
Marine Environment / ၵုၢ် ၵုၢ်	QIA-43, PCA-02, MHTO-5d
Shipping/ ၵုၢ်တၢ်	PCA-04c, PCA-04b, PCA-04a, MHTO-5b, MHTO-5a, MHTO-4c, MHTO-4b, MHTO-4a, DFO 3.4.4 NEW

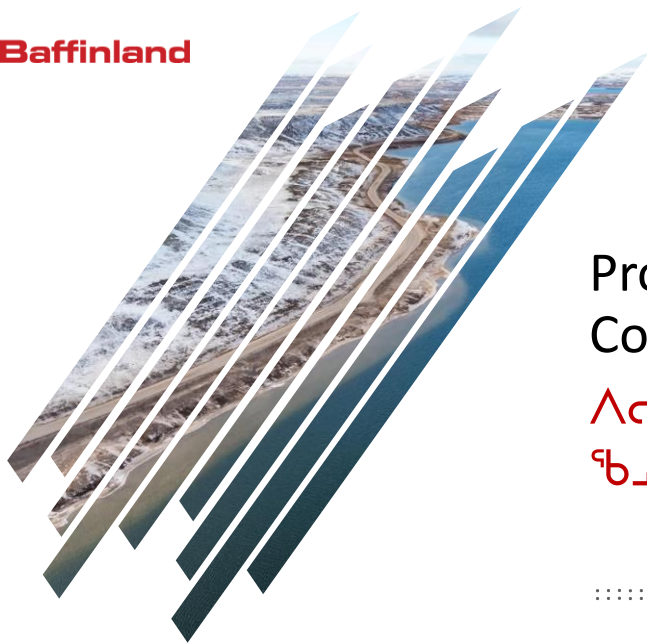
Marine Environment Key Commitments

- [illegible]

Marine Environment Key Commitments

ᑕᓕᓄᓐ ᐱᓇᑎᑕᓕᓐ ᐱᑕᓕᓕᓐ ᐱᑕᓕᓐ

- Risk-Based Approach for Ballast Water Management and Monitoring
ᐅᓕᓕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ
- Monitoring for Early-Warning Indicator
ᐅᓕᓕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ
- Ringed Seal Monitoring
ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ
- Avoidance of North Water Polynya
ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ
- Development of Inuit Stewardship Plan
ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ
- QIA approval of Adaptive Management
ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ ᐱᓇᑎᑕᓐ



Project Certificate Conditions

ᐱᑕᓕᓐ ᐱᑕᓕᓐ ᐱᑕᓕᓐ ᐱᑕᓕᓐ ᐱᑕᓕᓐ ᐱᑕᓕᓐ ᐱᑕᓕᓐ ᐱᑕᓕᓐ

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Current Project Certificate Conditions

[illegible]

- [illegible]

Current Project Certificate Conditions

ᐃᑦᓴᐅᔭᒃ ᐱᓕᓂᐳᑦ ᐃᓕከᓄᔭᔭᐅᔪᐅᑦ ᐱᓕᓂᓴᑦ

- [illegible]

ፍጥረትና ሕይወት
ወይም ፍጥረትና ሕይወት

.....

- [illegible]

Thank you
ᑭᓄᓐᓇᓂᓐ

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