



Clyde River Small Craft Harbour Development
Community Consultation #1 – Draft Summary
Report

R111193.001



200235.00 • October 2020

	Final	K. Bezanson	10/29/20	N. Corrin
	Draft	K. Bezanson	10/13/2020	N. Corrin
Issue or Revision		Reviewed By:	Date	Issued By:
 <p>This document was prepared for the party indicated herein. The material and information in the document reflects CBCL Limited's opinion and best judgment based on the information available at the time of preparation. Any use of this document or reliance on its content by third parties is the responsibility of the third party. CBCL Limited accepts no responsibility for any damages suffered as a result of third party use of this document.</p>				



October 29, 2020

Mr. Kenton Thiessen, P.Eng., PMP
Project Manager, Professional and Technical Services
Public Services and Procurement Canada

Dear Mr. Thiessen:

RE: Draft - Community Consultation Summary Report #1

The Canadrill-CBCL Team completed its first community consultation trip to Clyde River, Nunavut September 28 – October 2, 2020. Please find enclosed a summary of activities conducted.

Yours very truly,

CBCL Limited

Prepared by:
Natasha Corrin, M.A.Sc., P.Eng.
Assistant Project Manager
Direct: (343) 550-5143
E-Mail: ncorrin@cbcl.ca

Reviewed by:
Kevin Bezanson, P.Eng.
Project Manager

Project No: 200235.00

This document was prepared for the party indicated herein. The material and information in the document reflects CBCL Limited's opinion and best judgment based on the information available at the time of preparation. Any use of this document or reliance on its content by third parties is the responsibility of the third party. CBCL Limited accepts no responsibility for any damages suffered as a result of third party use of this document.

Contents

- Chapter 1 Introduction1
- Chapter 2 Summary of Stakeholder Update Meeting1
- 2.1 Summary of Feedback2
- Chapter 3 Summary of IQ Session5
- 3.1 IQ Workshop Objectives6
- 3.2 Intellectual Property Disclaimer6
- 3.3 Workshop Methodology7
 - 3.3.1 Identifying Knowledge Holders.....7
 - 3.3.2 Workshop Structure & Mapping.....7
 - 3.3.3 Interview Guide7
- 3.4 Workshop 1 Findings.....7
 - 3.4.1 State of the Environment.....7
 - 3.4.2 Historical and Current Use8
 - 3.4.3 Small Craft Harbour Needs and Aspirations.....8
- Chapter 4 Summary of Ad Hoc Conversations 10
- Chapter 5 Closure..... 12

Appendices

- A Presentation #1
- B Photographs of Stakeholder Update Meeting
- C Participatory Maps

Chapter 1 Introduction

The Canadrill-CBCL Joint Venture was retained by Public Services and Procurement Canada (PSPC) on behalf of Fisheries and Oceans Canada (DFO) for the small craft harbour development in Clyde River, Nunavut.

Members of the Canadrill-CBCL Team travelled to Clyde River, Nunavut, from September 28th to October 2nd, 2020, to participate in meetings and engagement activities. Team members included David Parsons, Assistant Project Manager for Construction Oversight; Natasha Corrin, Assistant Project Manager for Studies and Investigations; and, Okalik Egeesiak, Engagement Specialist. The Team was supported locally by Mary Tatatoapik who provided translation services. This was the first of four planned trips to Clyde River to conduct community consultation activities.

The objectives of the initial engagement trip to Clyde River were as follows:

1. Introduce the Canadrill-CBCL Team to the Hamlet and Nangmoutaq Hunters and Trappers Organization (HTO) of Clyde River.
2. Identify key players and establish a relationship between the Canadrill-CBCL Team and the community.
3. Present the proposed harbour layout and field programs to the community stakeholders and provide answers to questions.
4. Better understand the context of the small craft harbour in the community of Clyde River.
5. Begin the collection of field data and Inuit Qaujimagatuqangit (IQ).

The engagement tools and approaches used during the initial engagement trip to Clyde River included:

- A structured presentation and discussion with the Hamlet, HTO, Qikiqtani Inuit Association (QIA) members
- A meeting with knowledge holders to gather information on IQ
- Ad hoc conversations with people from Clyde River

A summary of each of these is provided in the following sections.

Chapter 2 Summary of Stakeholder Update Meeting

A formal meeting was held with the Hamlet, HTO, QIA and Guardians, to build relationships with these stakeholders, present the harbour design and describe the field studies taking place in the community. The meeting was held on September 29, 2020 at the Hamlet Office between 7 pm and 9 pm (EDT).

Introductions were made for those present in person and for those participating on the phone. Opening remarks were provided by Gabriel Nirlungnayuq, Regional Director General, Arctic Region - DFO, followed by Adele Butcher, Regional Engineer, Small Craft Harbours Branch, Arctic Region, DFO. Subsequently, the Canadrill-CBCL Team presented on the field programs and investigations and the next steps in design for the small craft harbour facility. A schedule of activities including future community consultations was also presented. Questions and discussion were held at the end of the presentation. The presentation is included as Appendix A. Photographs of the meeting are in Appendix B.

Meeting participants who attended in-person are listed in Table 2.1 below while those who attended via conference call are listed in Table 2.2.

Table 2.1: In-Person Meeting Participants

Name	Organization	Role
Attendees		
	HTO	Manager
	Hamlet of Clyde River / HTO	Councillor / HTO Chair
	HTO	Director
	Hamlet of Clyde River	Senior Administrative Officer
	Hamlet of Clyde River	Councillor
	HTO	Director
	Guardians	Member
	QIA / HTO	Director / Director
	Hamlet of Clyde River	Councillor
	HTO	Vice Chair

Name	Organization	Role
	Guardians	Crew Lead
	Hamlet of Clyde River	Councillor
	Hamlet of Clyde River	Deputy Mayor
	Hamlet of Clyde River	Councillor
	Hamlet of Clyde River	Councillor
	Hamlet of Clyde River	Councillor
	Guardians	Community Supervisor
	HTO	Director
Presenters		
	Canadrill-CBCL Team	Assistant Project Manager
	Canadrill-CBCL Team	Engagement Specialist
	Canadrill-CBCL Team	Assistant Project Manager
	Canadrill-CBCL Team	Translator

Table 2.2: Call-in Meeting Participants

Name	Organization	Role
	Canadrill-CBCL Team	Project Manager
	DFO	Regional Engineer
	DFO	Community Lead
	Canadrill-CBCL Team	Lead Coastal Engineer
	DFO	Engineer
	DFO	Senior Project Engineer
	DFO	Regional Director – Small Craft Harbours
	DFO	Director General – Arctic Region
	Canadrill-CBCL Team	Lead Structural Engineer
	PSPC	Project Manager
	DFO	Fisheries Protection Biologist

2.1 Summary of Feedback

Specific questions were presented on slides and asked by the presenters during the meeting related to the DFO Fish and Fish Habitat Protection Program (FFHPP) and the Transport Canada Navigation Protection Program (NPP).

FFHPP Community Questions

- Are there any concerns regarding fish and fish habitat where the harbour will be constructed?
- Are there any concerns regarding fish and fish habitat that will be altered by the harbour construction?
- What fish / marine life is harvested at the harbour site?

TC NPP Community Questions

- Are there any navigation concerns with the new harbour?
- Are there any concerns with the navigation lights?
- Are there any concerns with the location of the navigation lights?

Questions were then asked by meeting participants including the following:

1. Were there any negative effects on marine mammals noted after the small craft harbour in Pangnirtung was built?

Response: At the time of the meeting, we indicated we would get back to the community on this. Since then, DFO indicated that there have been no negative effects observed or reported regarding marine mammals in Pangnirtung. All of the infrastructure installed is stationary with nothing that should cause any issues.

2. What colour would the navigation lights be? Could they be half red and half green (i.e., both colours on a single light post)?

Response: DFO responded at the time of the meeting that the lights will be one red and one green. Dave Parsons explained that these are navigation standards and that any boat coming from another location would be confused by non-standard lighting that could result in a safety issue.

After the presentation was completed, the floor was opened up to general questions. These are listed below.

1. Would local hiring be a priority?

Response: At the time of the meeting, we indicated we would get back to the community on this. Since then, DFO indicated that the construction tender will be subject to the Nunavut Agreement which encourages use of local labour. Experience on past projects is that the construction company hired rock truck drivers/truck drivers. Floating dock assembly could be a contract that is awarded outside of the main tender. Specifically, a local crew could be hired to assemble and put in the floating docks.

Neither PSPC nor DFO are in a position to guarantee local labour but see hiring local labour as an advantage to the contractor. In order to qualify as Inuit content, a firm needs to be registered in the NTI database (<https://inuitfirm.tunnigavik.com/>), which can be an obstacle.

2. Concern was expressed about security related to kids/teens being at the harbour at night and the need for a night watchman.

Response: At the time of the meeting, we discussed that there would be lighting, which would help with security. Since then, DFO indicated that security related issues after the harbour is built are operational issues, outside of the scope of construction.

3. Can fishing/harvesting be done from the breakwater?

Response: At the time of the meeting, we indicated that fishing/harvesting could be done from the breakwater. We also indicated that smaller rocks could be placed on the larger armour stone to make fishing/harvesting easier from the breakwater. Upon further research this was found to be not to be possible because any smaller rock could be moved by ice causing a maintenance issue. Smaller rock can be placed at the shore within the facility where it is protected. One of the breakwaters will have a road that can be used by the hunters and fishers. Setting nets from the breakwater would likely be a harbour management decision and would not be a design constraint.

4. Will the zone for harvesting clams change?

Response: The construction of the harbour would not cause any changes related to current clam harvesting practices.

5. Will there be access to electricity?

Response: Yes, the harbour will have lighting and electrical service along the fixed wharf portion of the breakwater.

6. Will there be a tide indicator?

Response: The community can paint a tide indicator on the wharf after construction.

Chapter 3 Summary of IQ Session

Inuit Qaujimajatuqangit (IQ) is the unified and holistic system of beliefs, knowledge, principles, and values that encompass Inuit cultural identity. This knowledge system is historically rooted in an in-depth understanding that Inuit have of the natural environment that places emphasis on the interconnectedness of people and place. Increasing recognition is being placed on this comprehensive understanding of local environments as a means of gaining a more complete understanding of the use and value of an area. The incorporation of IQ into western science knowledge systems can contribute to local biodiversity and ecological processes which can in turn advance sustainable resource management and development.

The following list of principles (Table 3.1) compiled by Wenzel (2004) provides a useful summary.

Table 3.1: IQ Principles and Precepts (Wenzel, 2004)¹

Principle	Meaning
Pijitsirniq	Serving and providing to serve others
Aajiiqatigiingniq	Consensus seeking; respect differences
Pilimmaksarniq	Skills & knowledge acquisition; improve skills through practice and effort
Piliriqatigiingniq	Cooperation; work together for common purpose
Avatimik Kamattiarniq	Stewardship; treat nature holistically for actions and intentions have consequences
Qanuqtuurunnarniq	Problem solving; creative improvisation
Akiraqtuutijariaqanginniq Nirjutiit Pijjutigillugit	No one owns animals or land so avoid disputes
Ikpigusuttiarniq Nirjutilimaanik	Treat all wildlife respectfully
Sirliqsaagtittittailiniq	Avoid causing animals unnecessary harm
Ilijaaqaqtailiniq	Harvesting without malice
Surattittailimaniq	Hunt only what is necessary and do not waste

¹ Wenzel's understanding of IQ was acquired through three sources: The Nunavut Social Development Council, J. Arnakak, and Nunavut Wildlife Act.

Principle	Meaning
Qaujimanilik	Respect knowledge or experience
Papattiniq	Guardianship of what one does not own

It is important when incorporating IQ into baseline collection and design to consider that IQ encompasses all local and community-based knowledge that is grounded in the historic and current daily lives of Inuit. As such, the value of IQ is in more than distilling knowledge into a data point, but rather documenting the local ecological knowledge system that can contribute to project designs and practices.

There are practical reasons to include IQ through the participation of knowledge holders in the design of the small craft harbour. These include:

- Incorporating community values
- Incorporating connections and understanding of place
- Accessing baseline data on the local environment that may not be otherwise accessible

In addition, incorporating IQ into project design processes provides the community an opportunity to be involved in decision-making processes and empowerment to take part in community-based monitoring activities that identify any concerns that may arise from the project.

3.1 IQ Workshop Objectives

The intent of the IQ workshops for the small craft harbour project is to work with identified knowledge holders within the community to:

- Gain insight into the historical and current use of the coastal area surrounding the small craft harbour.
- Gather information about local habitats and wildlife resources.
- Have a greater understanding of the relationship between people and place.
- Gather information regarding weather, ocean currents and wave patterns.
- Gain insight as to why certain activities, places or resources are important to Inuit culture and identity.
- Ensure this information is taken into consideration during the design phase of the small craft harbour.

3.2 Intellectual Property Disclaimer

Canadrill-CBCL considers all IQ to be the intellectual property of the Inuit knowledge holders. All maps produced during this study were created jointly by Canadrill-CBCL and local knowledge holders to inform the design of Clyde River's small craft harbour. Any use of the figures or information throughout this document, other than for the purpose stated,

must be done only with the expressed written consent of DFO-SCH and the individual knowledge holders.

3.3 Workshop Methodology

3.3.1 Identifying Knowledge Holders

The Canadrill-CBCL Team worked closely with the HTO to identify and invite knowledge holders to participate in a face-to-face IQ workshop to be held during the week of September 28th, 2020. The knowledge holders that were invited to participate in the workshop were selected based on their knowledge and harvesting experiencing surrounding the area of the small craft harbour. Our translator reviewed the consent form with the knowledge holders, which explained the project and the purpose of the workshop. The knowledge holders completed and signed the consent forms.

3.3.2 Workshop Structure & Mapping

Workshops were structured as roundtable discussions whereby the Canadrill-CBCL Team and participants were situated around a table with maps and aerial photographs in the centre of the table. These materials were used only to guide the discussions. This arrangement encouraged a relaxed atmosphere to promote open dialogue and sharing of knowledge amongst the workshop participants.

Maps of the small craft harbour and area surrounding the small craft harbour were used to record information on the local environment. Participants were encouraged to indicate locations on the maps as they were sharing their knowledge. Maps used in the workshop and associated findings are included as Appendix C.

3.3.3 Interview Guide

The Canadrill-CBCL Team used a project interview guide for the IQ workshop. The intent of the guide was to help Canadrill-CBCL Team facilitators keep the discussion on track in order to ensure the necessary IQ is captured to enhance the design of the small craft harbour. The questions provided in the interview guide were not intended to be a survey form to be filled out by the interviewer but to promote fluid discussion.

3.4 Workshop 1 Findings

3.4.1 State of the Environment

3.4.2 Historical and Current Use

3.4.3 Small Craft Harbour Needs and Aspirations

Chapter 4 Summary of Ad Hoc Conversations

The following section summarizes conversations that were held with people from Clyde River when the opportunity arose. The summaries are not verbatim, but are written to convey the general flow of the conversations.

September 29, 2020 – Discussion with _____ (HTA vice-chair)

After the Hamlet/HTO meeting, _____ asked what had happened to the steering committee that was going to be formed that included people from Clyde River? They were supposed to go to Winnipeg in April. He understands that this didn't happen due to Covid-19; however, nothing more was ever heard on this topic .

September 30, 2020 – HTO Members Picking up Honoraria at HTO Office

Indicated that the breakwater at the west of the harbour, the portion on land, could be dangerous for kids. They will play on the other side of the breakwater and the adults won't be able to see them due to the breakwater.

The design looks like the Winnipeg Jets old logo.

The bridge is not good enough, it is not stable.

September 30, 2020 – Discussion with _____

The community freezer will make a big difference when it is working. Baffin Fisheries Coalition (BFC) offloaded 20,000 lbs of fish in Pangnirtung. They will give 5,000 lb of fish for free to the community. A new HTO office is being built. It will have a 1-door garage that can be used as a small engine repair shop. BFC gave funding for turbot fishing including mechanized haulers.

September 30, 2020 – Discussion with _____ at Cultural Centre

Silas was at the Hamlet/HTO meeting. He said: “although a lot of us are quiet and don't say anything, we want the harbour and we like it”.

October 2, 2020 – Discussion with Baggage Handler at the Airport

He is a hunter, he doesn't fish. The bathymetry sounding equipment was in the way of the narwhal that morning. Narwhal were in the bay last night but the boat was there early this morning and scared away the narwhal.

When they did the blasting for the airport, it was loud. They made a mistake and used too much TNT and scared away the narwhal and they didn't come back until October. You don't know when the narwhal are going to come.

He didn't hear the radio announcements about the blasting for the airport so it scared him. He thought a 4-wheeler had driven into his house.

October 2, 2020 – Discussion with _____ at the Airport, who was co-author of the book: *The Meaning of Ice*

He catches char with nets and feeds them to his dogs. He has a team of dogs and the char is good for them. Icebergs sometimes go into Patricia Bay and move around with the currents, you don't know where they are going to go. Water from the icebergs is the best, very pure and clean. There is more rain now than there was before. Shamen in Pangnirtung predicted that the climate would change 100 years ago.

Chapter 5 Closure

This report provides a summary of engagement activities that occurred related to Community Consultation #1. The next community consultation is planned for February 2021.



Prepared by:
Natasha Corrin, M.A.Sc., P.Eng.
Assistant Project Manager
Direct: (343) 550-5143
E-Mail: ncorrin@cbcl.ca



Reviewed by:
Kevin Bezanson, P.Eng.
Project Manager

This document was prepared for the party indicated herein. The material and information in the document reflects CBCL Limited's opinion and best judgment based on the information available at the time of preparation. Any use of this document or reliance on its content by third parties is the responsibility of the third party. CBCL Limited accepts no responsibility for any damages suffered as a result of third party use of this document.

APPENDIX A

Presentation #1



Clyde River ^{ᑭᓴᑦ ᑭᓴᑦ ᑭᓴᑦ} ^{ᑭᓴᑦ ᑭᓴᑦ ᑭᓴᑦ}

Harbour Development Project

ᑭᓴᑦ ᑭᓴᑦ ᑭᓴᑦ ᑭᓴᑦ ᑭᓴᑦ ᑭᓴᑦ





Who are we?

ρ^b∩ΔC



Objective

ጋናሌኪነት ለማረጋገጥ



Build on Feasibility Study:

ጋናሌ ለግንባታ ለሚያስፈልጉት ግንባታ ስራዎች ላይ ማስተካከል

- Additional studies in community ግንባታ ስራዎች ላይ ማስተካከል
- Detailed design ማስፈጸም ለሚያስፈልጉት ግንባታ ስራዎች
- Construction ማስፈጸም





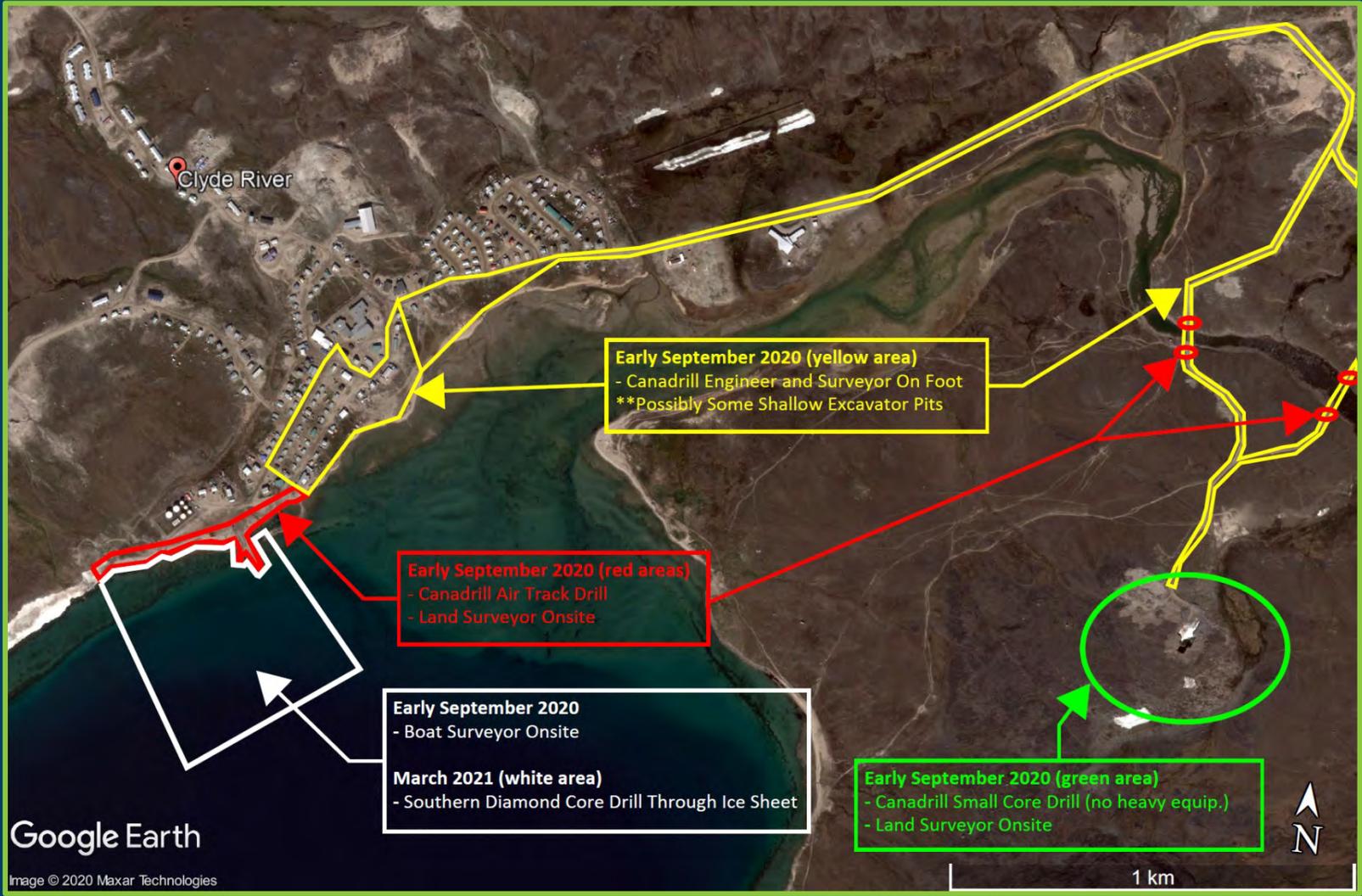
Bathymetry

$$\Delta L \triangleright \triangleleft \Delta \rho \sigma^a \sigma^b$$



Geotechnical

ᓄᓇᓯᓪᓗᓂᓐ ᓄᓇᓯᓪᓗᓂᓐ ᓄᓇᓯᓪᓗᓂᓐ ᓄᓇᓯᓪᓗᓂᓐ ᓄᓇᓯᓪᓗᓂᓐ ᓄᓇᓯᓪᓗᓂᓐ



Geotechnical - Harbour

ᓄᓇᓂᓗᓂᓗ ᓂᓗᓂᓗᓂᓗ ᓂᓗᓂᓗᓂᓗ ᓂᓗᓂᓗᓂᓗ - ᓂᓗᓂᓗᓂᓗ





Sedimentation

ᐃᑦᑲᓴᓂᓄᑦ ᑭᐱᑦᑲᑦᑲᑦᑲᑦᑲᑦ



Permitting

◀▶↻⊕⊙⊚◀◀◀◀ ◀▶↻⊕⊙⊚◀◀◀◀

Design / Construction

ከዲዛይን/ኮንስትራክሽን ለግብይት ለማድረግ ለሚያስፈልጉት

ከዲዛይን/ኮንስትራክሽን



Evaluation of Conceptual Design

ፍጠራዊ ፍቅር ወይንም ልዩ ልዩ ልዩ ፍጠራዊ ፍቅር ወይንም ፍጠራዊ ፍቅር



Evaluation of Conceptual Design

ፍጠራዊ ልማት ለግብርና ማዘጋጀት ማዘጋጀት



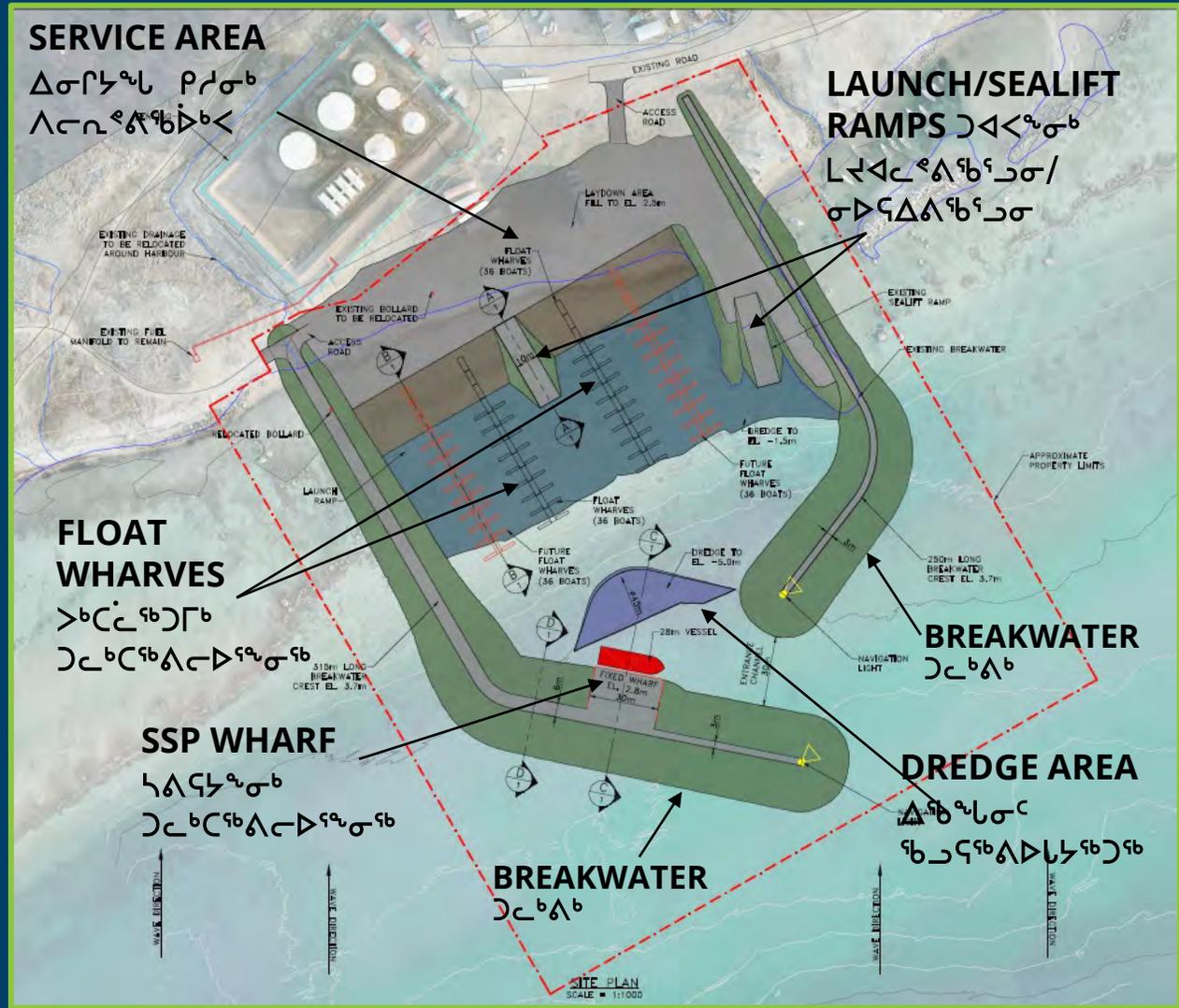
Does the design work?
Are changes to the design required?

ርዕድ ማዘጋጀት ማዘጋጀት?
ለግብርና ማዘጋጀት ማዘጋጀት?



Proposed Site Plan

አዲስ አበባ ስፔሻል ኢንፎርሜሽን ሲቲ ስፔሻል ኢንቨስትመንት አይ.ፒ.ሲ. ፕሮጀክት ስፔሻል ፕላን



Primary Components

አዲስ አበባ ስፔሻል ኢንፎርሜሽን ሲቲ ስፔሻል ኢንቨስትመንት አይ.ፒ.ሲ. ፕሮጀክት ስፔሻል ፕላን

- 1. Armour stone breakwaters (materials from quarry)**
 ስፔሻል ስፔሻል ስፔሻል (ስፔሻል ስፔሻል ስፔሻል ስፔሻል)
- 2. Harbour dredging**
 ስፔሻል ስፔሻል ስፔሻል
- 3. Steel sheet pile (SSP) wharf**
 ስፔሻል ስፔሻል ስፔሻል ስፔሻል
- 4. Float wharves**
 ስፔሻል ስፔሻል ስፔሻል ስፔሻል
- 5. Gravel launch/sealift ramps**
 ስፔሻል ስፔሻል ስፔሻል ስፔሻል



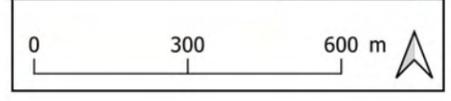
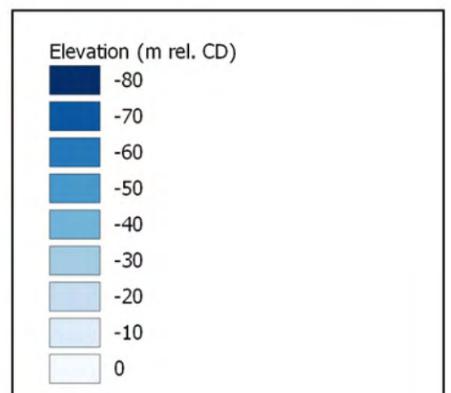
Breakwater Construction

ᐅᓕᓐᓕᓐᓐᓐᓐᓐᓐ ᓐᓐᓐᓐᓐᓐᓐᓐ



Community Feedback and Input

ᓄᓇᓕᓐᓂᓕ ᓂᓴᓐᓂᓕ ᓐᓴᓂᓂ
ᓂᓴᓂᓂᓐᓂᓐᓂᓐᓂᓐᓂᓐᓂᓐᓂᓐ





Solutions today | Tomorrow **IN** mind

f   in
www.CBCL.ca