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NPC File No.: 150556
NIRB File No.: 24XN059
DFO FAA File No.: 25-HCAA-01305

07 October 2026

Re: Type B Water Licence Application for Grise Fiord Community Harbour Project

Dear Nidhi and Ali,

1 Introduction

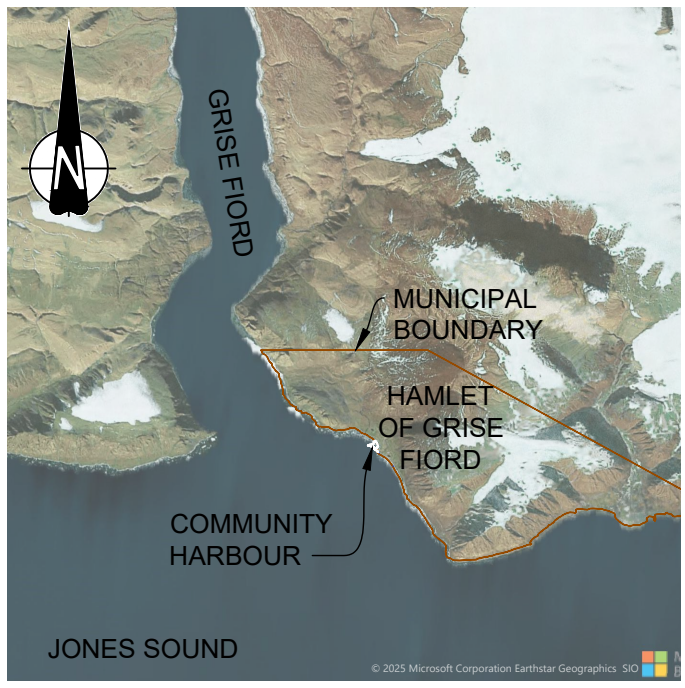
This document is the Nunavut Water Board (NWB) cover letter to support a Type B Water Licence application for the Grise Fiord Community Harbour (the Project). The Conformity Determination was issued by the Nunavut Planning Commission (NPC) on 11 December 2025 (NPC File No. 150556) (NPC, 2025), where it was determined the Project would be a screening by the Nunavut Impact Review Board (NIRB), with the Screening Decision Report (SDR) issued on 19 June 2025 (NRIB File No. 24XN059) (NIRB, 2025) (provided with submission). The Project is located in the community of Grise Fiord, which is approximately 1,100 km north of the Arctic Circle (76°25' 0.06" N, 82°54' 56.10" W, see Figure 1-1). Grise Fiord is located on the southern shore of Ellesmere Island in Jones Sound in the Qikiqtaaluk Region of Nunavut, and conforms with the North Baffin Regional Land Use Plan (NBRLUP) (Nunavut Planning Commission (NPC), 2000).

The Government of Nunavut – Transportation and Infrastructure Nunavut (GN-TIN) is interested to construct and operate a community harbour in Grise Fiord, Nunavut (the Project). This is the Application for Nunavut Water Board (NWB) Type B Water License for the Project. Worley Canada Services Ltd., operating as Worley Consulting, has been retained by the GN-TIN to support the detailed design of a community harbour in Grise Fiord, Nunavut. Dynamic Ocean Consulting Ltd. (Dynamic Ocean) is supporting Worley Consulting on the regulatory compliance permitting requirements for the Project.

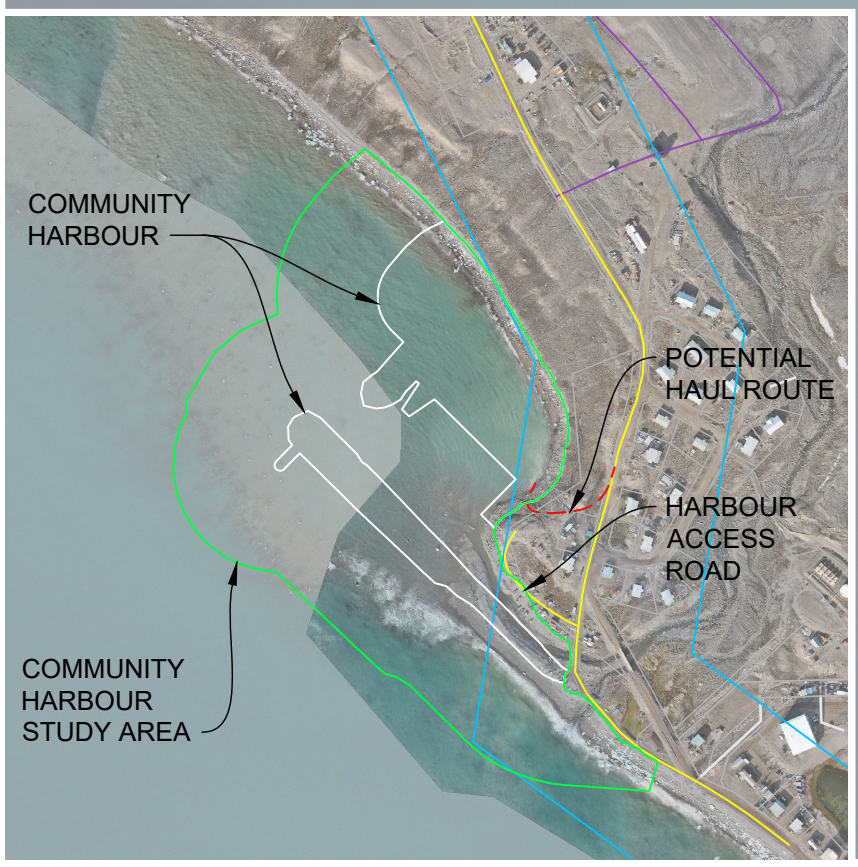
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QUARRY LOCATION 2D
QUARRY LOCATION 2B
HAUL ROUTE
QUARRY LOCATION 2A
HAUL ROUTE
POTENTIAL STOCKPILE / LAYDOWN / AGGREGATE PRODUCTION AREAS
SEWAGE LAGOON
AIRPORT KUURAALUK
VALLEY CREEK
COMMUNITY HARBOUR
COMMUNITY HARBOUR STUDY AREA
HAMLET OF GRISE FIORD
KUURAALUK CREEK



KEY PLAN
1:300000



INSET PLAN
1:7500

PLAN
1:15000

LEGEND

- HAUL ROAD ON EXISTING ROAD/TRACK
- ALTERNATE/ADDITIONAL HAUL ROUTE
- COMMUNITY STUDY AREA
- QUARRIES STUDY AREA
- EXISTING ROAD STUDY AREA
- STOCKPILE/LAYDOWN AREA
- QUARRY

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GOVERNMENT OF NUNAVUT
GRISE FIORD COMMUNITY
HARBOUR DEVELOPMENT

PROJECT COMPONENTS
(QUARRY, HAUL ROAD, COMMUNITY HARBOUR)

Date:	Drawn by:	Edited by:	App'd by:
03-APR-25	JLC	JLC	CM

Worley Project Number: 317086-54170
DRG No: Figure 1-1
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1.1 Project Overview

The Project will improve safety and access to water, functionality of boating activities, and reduce the congestion and environmental risks (described in Section **Error! Reference source not found.**3 of the Project Specific Information Requirement [PSIR] Report (Dynamic Ocean & Worley Consulting, 2025b)). The community harbour location was based on four considerations: the natural landscape (within a sheltered bay); providing maximum protection from waves for small craft vessels; better constructability; and is the preferred choice of the community, determined through consultation from 2018 to 2024.

Project components are depicted in Figure 1-1, and a General Arrangement is provided in Appendix A (see Drawing A-1).

The permanent components of the Project include the following, where the components relevant to the NWB mandate are in bold:

- Two new breakwaters (to create a protected harbour); **the south breakwater will interface with the Kuuraaluk Creek and alter the banks of creek through shoreline armouring.**
- Boat launch ramp.
- Two small craft floating docks to support mooring of small craft vessels.
- Boat storage/parking area; **a new culvert will be installed at the south corner of the area.**
- Shoreline raised and graded to create a level driving surface.
- Navigational aids.
- Harbour lighting.
- Dredging on the leeward side of the breakwater to form a berth pocket and approach channel allowing larger boats to access. **Dredging is a temporary activity to create a permanent sediment stilling basin at the mouth of Kuuraaluk Creek.**

Temporary components to support construction include:

- Quarry (borrow pits) to supply rock for construction.
- Haul road to transport rock from the quarry (borrow pits) to the community harbour.
- Below High-Water Line (HWL) infilled platforms to support land-based construction.
- Construction camp to house non-local Project personnel (up to 30 people).

Construction is scheduled to commence in 2027 and will conclude in 2030, with works largely occurring in the open-water season. The community harbour is expected to be operational in the open-water season of 2031.

There will be a total of five activities for the Project that fall within the mandate of the NWB; three of these components are a part of the permanent infrastructure and two are a part of temporary components.

Permanent Component

- Component No. P1: Stream armouring along Kuuraaluk Creek.
- Component No. P2: Culvert installation at the southeast corner of the boat storage/parking area.
- Component No. P3: Creation of a sediment stilling basin at the mouth of Kuuraaluk Creek.

Temporary Components

- Activity No. T1: Culvert replacement or repair along the haul road.
- Activity No. T2: Water withdrawal for construction and contractor camp.

1.2 Document and Application Intention

This application is specific to the permanent components only (Component Nos. P1, P2 and P3). The information to support the application for the temporary components will not be available until after a contractor has been awarded the Project. The application submission can also not wait until after contract award as there may be conditions stipulated in the licence that require construction planning. Therefore, the GN-TIN will apply for a licence amendment subsequent to contract award.

Guidance used to develop the application is as below:

- 'Guide 4: Completing and Submitting a Water Licence Application for a New Licence' (herby referred as Guide 4)(NWB, 2015b).
- Miscellaneous Supplemental Information Guideline (SIG) for General Water Works (including crossings, training, flood control, diversions, and flow alterations) (M1) (herby referred by SIG M1) (NWB, 2010)[1].
- Guide 3: Activities that Require a Water Licence and Types of Water Licences (NWB, 2015a).

The stream armouring and culvert installation for the community harbour fall within the General Water Works (Miscellaneous – M1) Supplemental Information Guide (SIG) as described in Section 6 (Table 2) of Guide 4 (NWB, 2015b). The requirements as described in Section 7 (Table 3) of Guide 4 (NWB, 2015b), do not easily align with any of the Project activities; however, the closest match is 'Water Crossing'. Therefore, this is what guided the submission requirements for this NWB Type B Water Licence application.

The application checklist, as summarized in Table 1 of Guide 4 is provided in Table 1-1.

Table 1-1: Grise Fiord Community Harbour Type B Water Licence Application Checklist

No.	Requirements Outlined in Table 1 of Guide 4	Response
1	Completion of the General Water Licence Application Form in accordance with the guidance provided in section 5	The application form has been submitted as a part of this application.

[1] The SIG M1 can be found on the NWB public registry https://public.nwb-oen.ca/other%20documents/NWB%20GUIDES/Supplemental%20Information%20Guidelines%20(SIG)/

No.	Requirements Outlined in Table 1 of Guide 4	Response
2	Information that satisfies the checklist requirements outlined in any SIGs that are relevant to the project as described in section 6 as well as information required to complete Plans, including Designs and Reports as described in section 7	**Section 6 of Guide 4** Miscellaneous – M1 SIG excel sheet has been submitted as a part of this application and serves as the Table of Concordance (ToC) to identify where required information can be obtained, or when they are not applicable to the Project.
		Section 7 of Guide 4 Water Crossing • A plan of the crossing showing cross-sections and elevations (Appendix A (Drawing A-3)). • A description of the existing bed and banks of the watercourse (M1 SIG Tab 4.0 No. 6). • Any available data on the water flow of the watercourse (M1 SIG Tab 4.0 No. 9).
3	Executive Summary of the application in English as described in section 9	The Executive Summary, in English and North Baffin Inuktitut has been submitted as a part of this application.
4	Translated Executive Summary of the application into the appropriate language and dialect depending upon the applicable region as described in section 10	
5	Application Fee in accordance with section 11	A $30.00 application fee will be paid by the GN-TIN upon the submission of the application.
6	Water use fee deposit accordance with section 11	A $30.00 water use fee deposit will be paid by the GN-TIN upon the submission of the application.

1.3 Nunavut Water Board Type B Water Licence Application Submission Components Project Supporting Documents

Supplemental Documents that have been submitted as a part of the NWB Water Type B Licence application are as below:

- SIG M1 spreadsheet.
- General Water Licence Application form.
- NPC Conformity Determination (NPC File No. 150556).
- NIRB SDR (NIRB File No. 24XN059).

- Environmental and Socio-Economic Existing Conditions (EC) Report (Dynamic Ocean, 2025).
- PSIR Report (Dynamic Ocean & Worley Consulting, 2025b).
- Construction Environmental Monitoring Plan (CEMP) (Dynamic Ocean & Worley Consulting, 2025a).
- Consultation Log (Worley Consulting, 2024).
- Geotechnical Investigation Factual Report (Worley Consulting, 2026).

1.4 Supporting Drawings and Figures

Supporting Drawings and Figures are provided in Appendix A and Appendix B, respectively, and are listed below.

Supporting Drawings

- Drawing A-1: Grise Fiord Community Harbour General Arrangement.
- Drawing A-2: Grise Fiord Community Harbour Existing Site Plan.
- Drawing A-3: Grise Fiord Community Harbour Typical Section.

Supporting Figures

- Figure B-1: Project Location NTS 0494A06 – 1: 50,000 Scale.
- Figure B-2: Burrow Pit and Haul Road Plan.
- Figure B-3: Water Courses In Proximity to Project Study Area.
- Figure B-4: Land Tenure (Temporary Components).

2 Nunavut Water Board Activities Description

2.1 Activities

2.1.1 Stream Armouring

Construction of the Project's south breakwater will interface with the Kuuraaluk Creek (see Figure 2-1). Approximatel130 m Kuuraaluk Creek's northern arm stream bank will be altered through installation of armour stone that is required to support the construction of the breakwater. The breakwater generally follows the alignment of the north river arm. Armouring works will consist of placement of Type 1 general fill (600 minus) followed by Type 2 armour stone at a 2:1 slope along the north side of the south breakwater. Note that the existing arm of the stream is granular material (cobbles, gravel, and sand). The additional armouring in this area is to prevent future erosion.

2.1.2 Culvert Installation

A culvert (914Øx9.5 steel pipe) will be installed at the southeast corner of parking / boat storage area (see Figure 2-1). The culvert will facilitate water drainage by collecting runoff along the drainage ditch located on north side of the community harbour and an existing culvert that drains in the area

2.1.3 Dredging and Stilling Basin

To address and minimize sedimentation carried by Kuuraaluk Creek into the community harbour, a sediment stilling basin will be constructed near the mouth of Kuuraaluk Creek to capture sediment and minimize future maintenance dredging requirements of the community harbour (see Figure 2-1). The mouth of the Kuuraaluk Creek's northern arm will be dredged to -1.0 m elevation, with the stilling basin to be dredged to -0.5 m elevation.

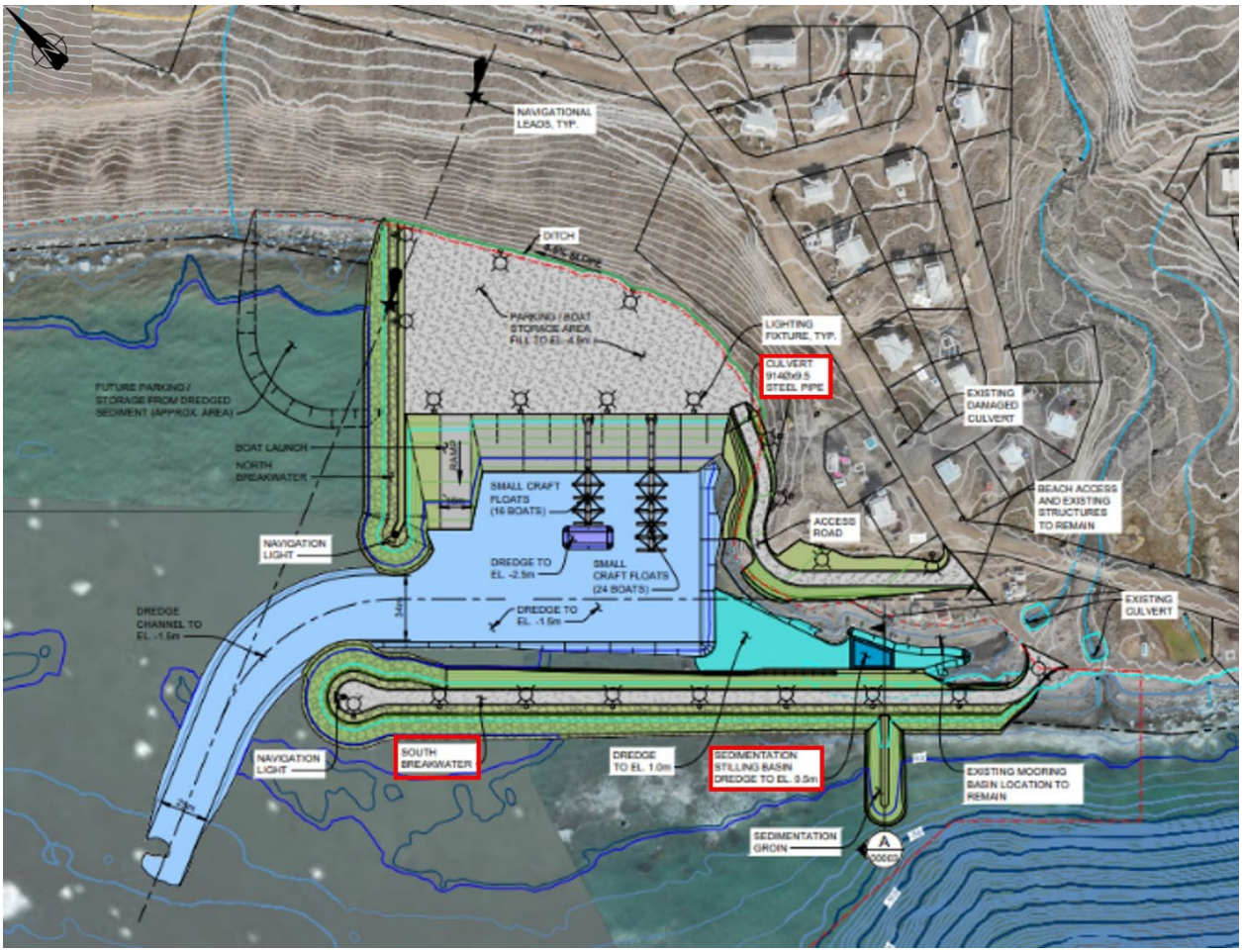


Figure 2-1: Permanent Components of the Project Requiring Nunavut Water Board Authorization

Note: red boxes identify labels for each of the permanent components described in Section 2.1
Source: adapted from Drawing A-1

2.2 Impacts

Stream armouring is not expected to alter the general alignment nor flow of Kuuraaluk Creek. Activities described in this application will not require the use of water and does not generate water. Potential environmental effects during construction activities are expected to be short-term, with localized increases in turbidity during in-water activities associated with dredging and stream armouring installation. Mitigations will include turbidity monitoring using the Canadian Council of Ministers of the Environment (CCME) water quality guidelines, and the installation of sediment and erosion control measures, as detailed in Sections 5.4 and 5.5 of the Construction Environmental Management Plan (CEMP).

3 Applicant Information and Closing

We appreciate NWB taking the time to review our Type B water licence application as enclosed and trust that this letter provides all the necessary details. If you require any further information, please do not hesitate to Laura Borden.

Table 3-1: Contact Information

Contact Category	Details
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Telephone	1-604-928-0193
Email	Laura@dynamicocean.ca
Design Engineer: Worley Canada Services Ltd.	
Name	Chris Meisl, PEng Project Manager, Marine Engineering Lead
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Telephone	1-418-730-2965
Email	Chris.Meisl@worley.com

4 Reference

Dynamic Ocean. (2025). *Grise Fiord Community Harbour: Marine Existing Conditions Report*. Prepared for the Government of Nunavut. Doc No: REP-WRL-07-Grise Fiord Marine Existing Conditions Report-0006-25. in-prep.

Dynamic Ocean, & Worley Consulting. (2025a). *Grise Fiord Community Harbour: Construction Environmental Management Plan*. Prepared for the Governmnet of Nunavut. Doc No: PLN-WRL-07-Grise Fiord Community HRB CEMP-0001. 26 March 2025. Rev 5.

Dynamic Ocean, & Worley Consulting. (2025b). *Grise Fiord Community Harbour: Project Specific Information Requirements* Prepared for Nunavut Impact Review Board. Doc No: REP-WRL-07-Grise Fiord Community HRB PSIR-0003. 26 March 2025. Rev 6.

NIRB. (2025). *Screening Decision Report File No. 24XN059, Grise Fiord Community Harbour Project. Issued to the Government of Nunavut on 19 June 2025*.

NPC. (2000). North Baffin Regional Land Use Plan. Nunavut Planning Commission. Available at: https://www.nunavut.ca/land-use-plans/north-baffin-region-land-use-plan. Accessed: November 2025.

NPC. (2025). *NPC 150556 - Grise Fiord: Conformity Determination Issued*.

NWB. (2010). Miscellaneous Supplemental Information Guideline (SIG) for General Water Works (Including Crossings, Training, Flood Control, Diversions, and Flow Alterations). Nunavut Water Board. Accessed:

NWB. (2015a). *Guide 3 - Activities that Require a Water Licence and Types of Water Licences*. Prepared by Nunavut Water Board. Doc No: 150707. July 2015. 11pp.

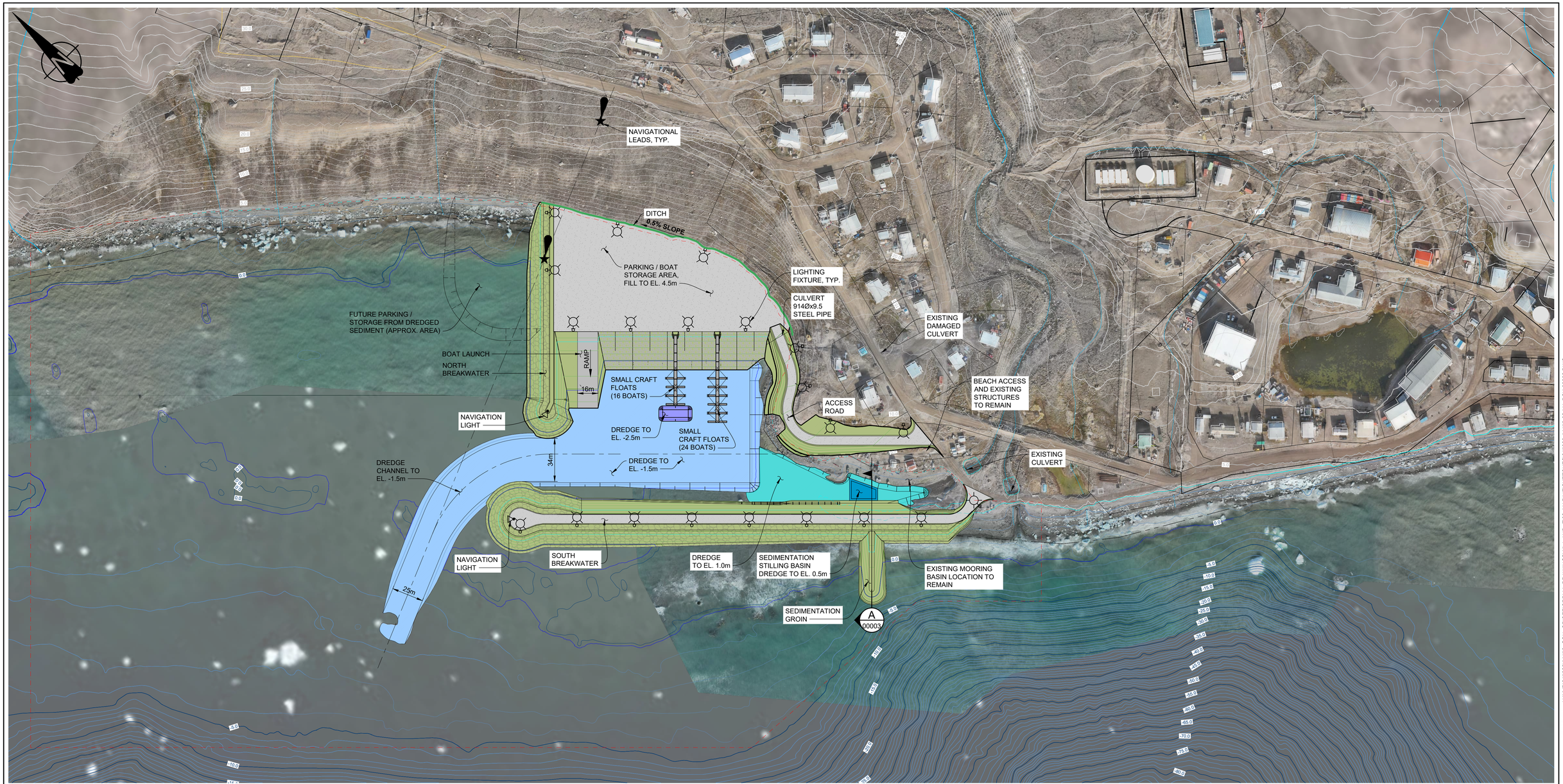
NWB. (2015b). *Guide 4 - Completeing and Submitting a Water Licence Application for a New Licence*. 6 July, 2015. 48pp.

Worley Consulting. (2024). *Grise Fiord Community Harbour Project - Consultation Log*. Prepared by Worley Consulting. Doc No: 317086-54710-00-PM-LST-00001.

Worley Consulting. (2026). *Geotechnical Investigation Factual Report. Grise Fiord Community Harbour*. Prepared for Government of Nunanvut. Doc No: 317086-54170-00-SS-REP-00001. 01 April 2026. 290pp.

Appendix A: Supporting Drawings

Dynamic Ocean Consulting Ltd.



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1:1500

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- HHWL (3.6m)
- LLWL (-0.1m)

NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.

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WORLEY PROJECT No
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Nunavut — Building Nunavut Together / Nunavut Iliuqatigiingniq / Bâtir le Nunavut ensemble

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GRISE FIORD COMMUNITY HARBOUR GENERAL ARRANGEMENT

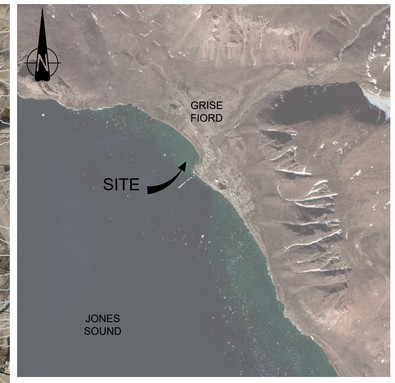
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RIVER
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HAMLET OFFICE
HEALTH CENTER
EXISTING BRIDGE
RCMP
HOTEL
SCHOOL
LOT 123
EXISTING CULVERTS
EXISTING MOORING BOLLARD
CURRENT MOORING BASIN
FUEL MANIFOLD
EXISTING BOAT LAUNCHING/SEALIFT BEACH
EXISTING MOORING BOLLARD



LOCATION PLAN
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LEGEND:
HHWL (3.6m)
LLWL (-0.1m)

NOTES:
1. FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. 317086-54170-02-MA-DGA-00002.
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Building Nunavut Together
Nunavut Iliuqatigiingniq
Bâtir le Nunavut ensemble

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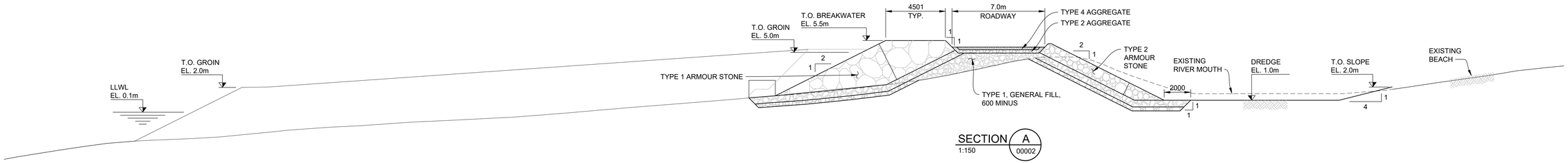
GRISE FIORD
COMMUNITY HARBOUR
EXISTING SITE PLAN

Drawing A-2

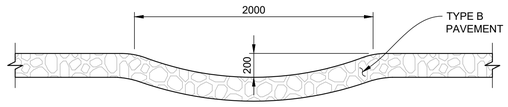
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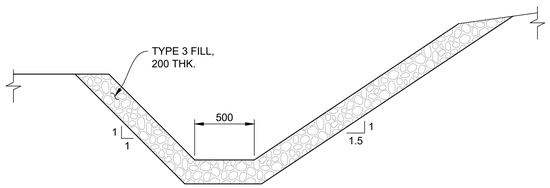
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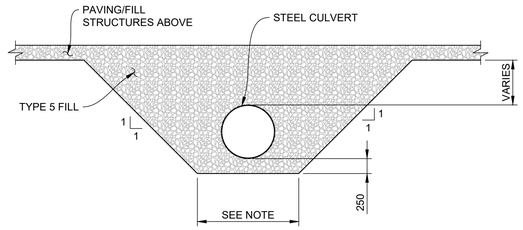
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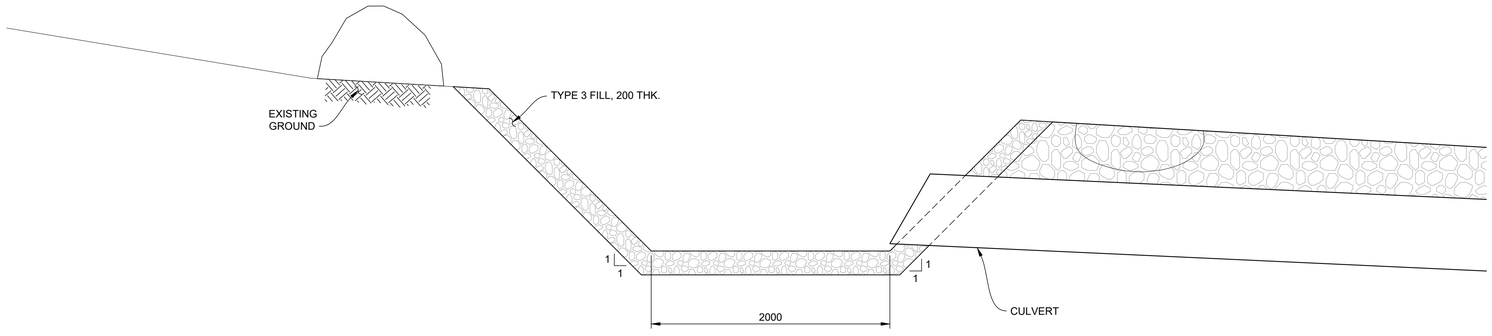


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WORLEY PROJECT No
317086-54170

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CUSTOMER

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GRISE FIORD
COMMUNITY HARBOUR
DRAINAGE AND EARTHWORKS
SECTION AND DETAILS

Drawing A-3

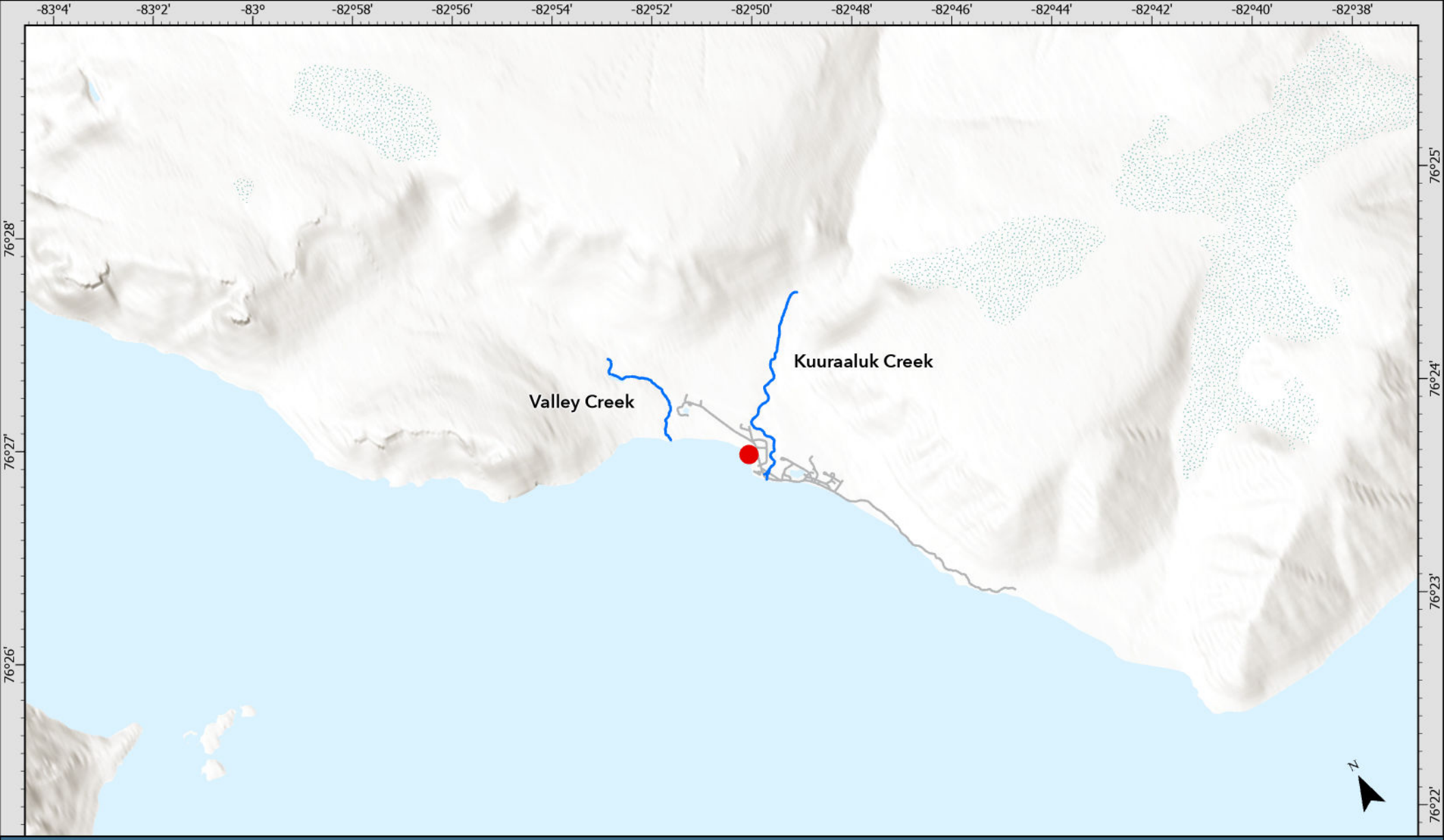
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Appendix B: Supporting Figures

Dynamic Ocean Consulting Ltd.



Legend

- Project Location / Grise Fiord
- Watercourse

NTS Map Sheet: 049A/06

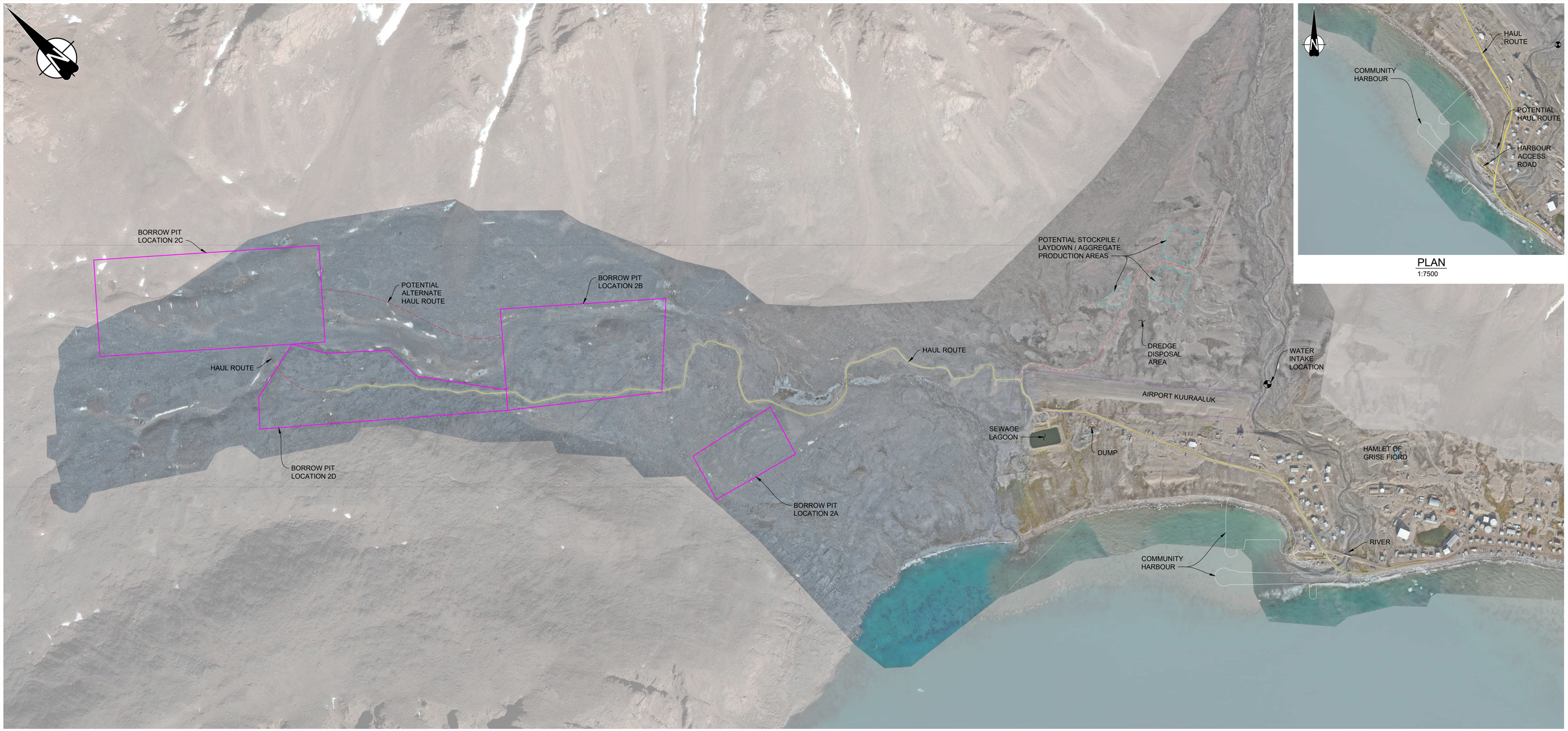
Drawn: AL	Grise Fiord Community Harbour		
Edited: AL	**Project Location - NTS 049A/06 (1:50,000)**		
Approved: VBC	ID: 07-0005	Rev: A	Figure B-1

Spatial Reference
GCS: GCS WGS 1984
Datum: WGS 1984
Projection: Stereographic North Pole
Map Units: Metre

0 300 600 1,200
m

Scale: 1:50,000

Project Location



PLAN
1:7500

PLAN
1:7500

m 0 100 200 300 400 m
1:7500

LEGEND:

- HAUL ROAD ON EXISTING ROAD/TRACK
- ALTERNATE/ADDITIONAL HAUL ROUTE
- STOCKPILE/LAYDOWN AREA
- BORROW PIT

NOTES:

1. FOR DESIGN CRITERIA AND GENERAL NOTES, SEE DWG. 317086-54170-02-MA-DGA-00002.
2. ALL ELEVATIONS ARE REFERENCED TO HYDROGRAPHIC TIDE AND CHART DATUM.

REV	DATE (DD-MMM-YY)	REVISION DESCRIPTION	DRAWN	DRAFT CHK	DESIGNED	ENG CHK	APPROVED	QAR	REF DRAWING No	REFERENCE DRAWING TITLE
A	02-APR-26	ISSUED FOR REVIEW - DESIGN DEVELOPMENT	JLC	-	KM	CM	CM	-		

D SHEET | SCALE | SHOWN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
Last Saved: Apr. 02/26 10:02am

WORLEY PROJECT No
317086-54170

ENGINEERING AND PERMIT STAMPS (As Required)

CUSTOMER

Building Nunavut Together
Nunavuliuqatigiingniq
Bâtir le Nunavut ensemble

"This drawing is prepared for the use of the contractual customer of Worley Canada Services Ltd. and Worley Canada Services Ltd. assumes no liability to any other party for any representations contained in this drawing."

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GRISE FIORD COMMUNITY HARBOUR BORROW PIT AND HAUL ROAD PLAN

Figure B-2

DRG No: 317086-54170-02-MA-DGA-00080

REV: A

LOCATION: U:\VR\317086\54170_GDN_GRISEFIORD\11_DRAWINGS\15_LAND_E\02_MARINE\317086-54170-02-MA-DGA-00080.DWG
USER NAME: jennifer.coppendale
PLOT DATE & TIME: 2/4/2026 6:13:32 PM
SAVE DATE & TIME: 2/4/2026 10:02:29 AM

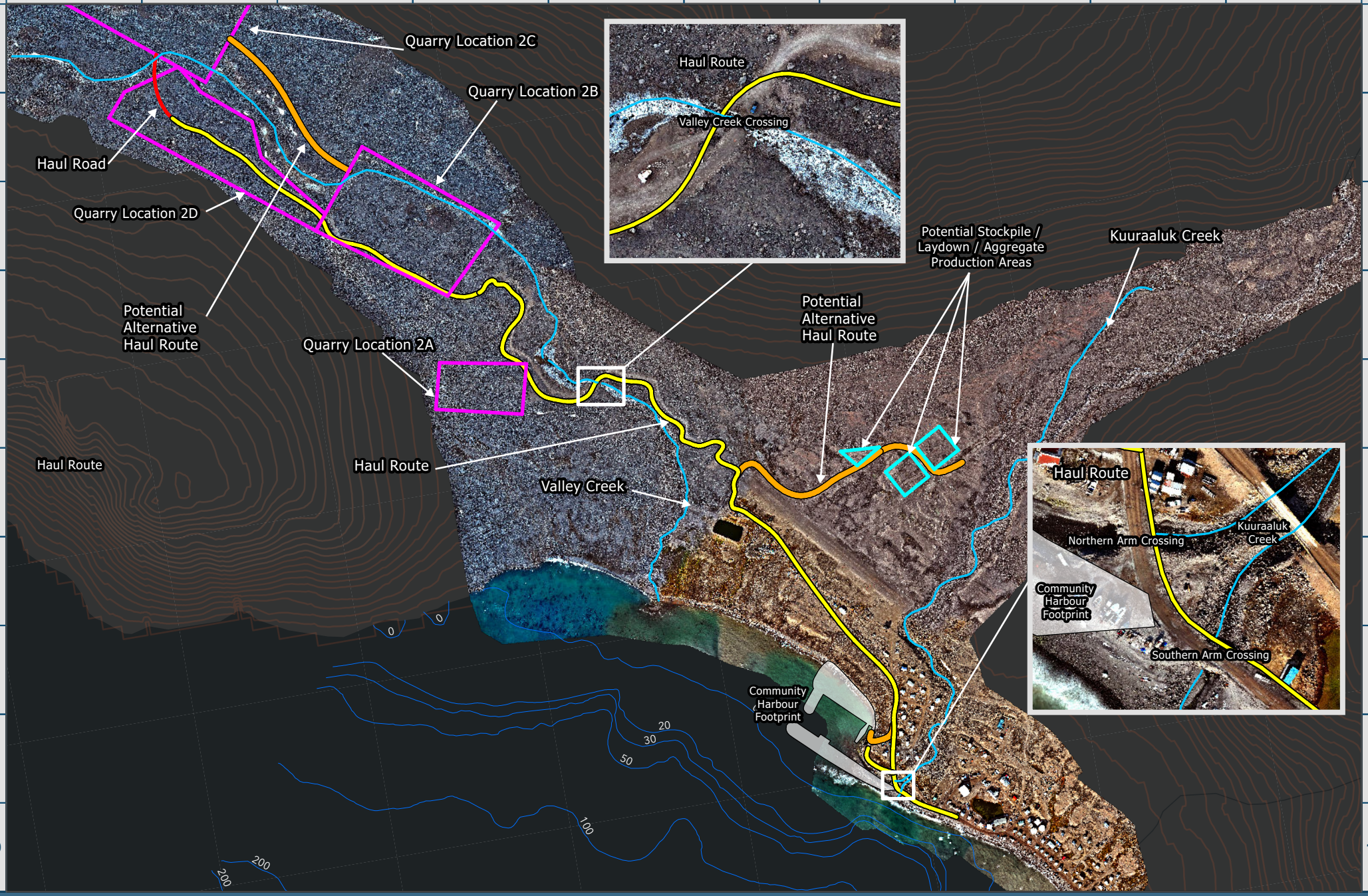


Figure B-3

Water Courses In Proximity to Project Study Areas

N

Scale: 1:16,465

0 150 300 600 M

Spatial Reference
GCS: GCS North American 1983 CSRS
Datum: North American 1983 CSRS
Projection: Transverse Mercator
Map Units: Meter

Date Saved: 2025-07-03 5:08 PM

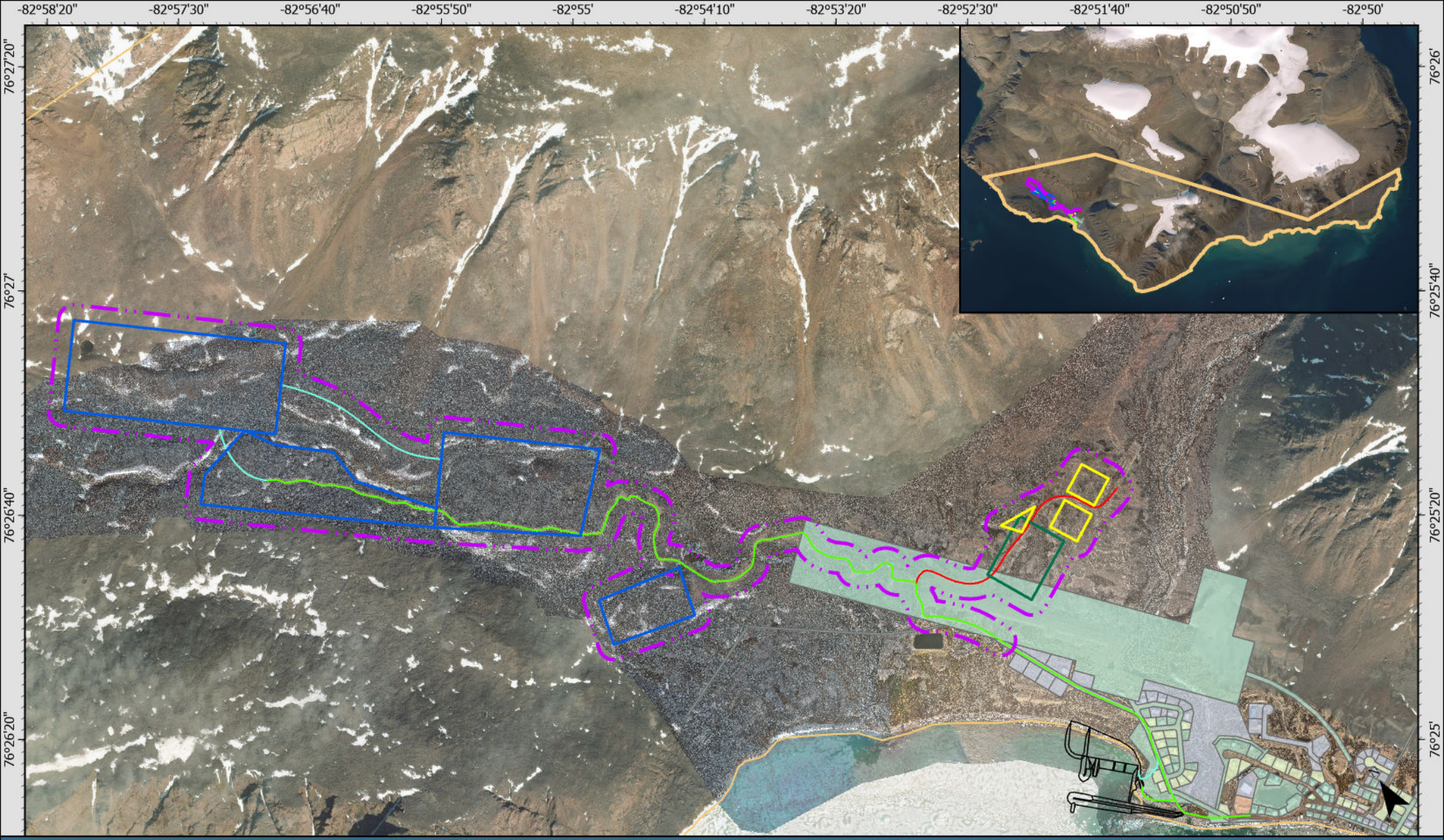
Drawn: C. Knight



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Nunavut



Legend

- Community Harbour
- Municipal Boundary

Project Components

- Quarry
- Stockpile/Laydown Area
- Onshore Disposal Location
- GN-CS Land Use Permit Boundary
- New Haul Road
- Alternate Haul Road
- Existing Haul Road

Land Tenure

No Interaction

- Federal
- Municipal
- Private
- Untitled Municipal

Interaction

- Commissioner's Land

Drawn: CL	Grise Fiord Community Harbour		
Edited: CL, IG	**Land Tenure Temporary Components**		
Approved:	ID: 07-0003	Rev: C	Figure B-4

Spatial Reference
GCS: GCS WGS 1984
Datum: WGS 1984
Projection: Stereographic North Pole
Map Units: Metre

0 100 200 400 m

Scale: 1:17,000

Project Location

Appendix C: Government of Nunavut Signed Authorizing Letter

Dynamic Ocean Consulting Ltd.

07 October 2026

Re: Authorization of Applicant Representative – Application for Type B Water Licence for Grise Fiord Community Harbour Project

Dear NWB Licensing Manager,

The Government of Nunavut, Department of Transportation and Infrastructure Nunavut (GN-TIN), is applying to the Nunavut Water Board (NWB) for a Type B Water Licence, to support the construction of the Grise Fiord Community Harbour Project (the Project).

The GN-TIN hereby authorizes Laura Borden, Senior Marine Scientist at Dynamic Ocean Consulting Ltd. (Dynamic Ocean), to act as GN-TIN's representative in the licensing process for this application. This authorization includes the preparation and submission of the application and supporting documentations, correspondence with the NWB regarding the application, and responding to information requests, comments, and other matters arising during the NWB's licencing process. Laura Borden's contact information is provided in Block 2 of the application form.

Justin McDonell
Government of Nunavut – Transportation and Infrastructure Nunavut
Project Manager, Capital Projects