



1 Project Overview

1.1 Background

Dynamic Ocean Consulting Ltd. (Dynamic Ocean) has been retained by the Government of Nunavut – Department of Transportation and Infrastructure Nunavut (GN-TIN) as the regulatory specialist to support the permitting for the Kivalliq-Baffin Connector (KBC) Fibre Optic Cable Project (the KBC Project). The KBC Project is has four landings as below (depicted in Figure 1-1):

- Three landings on Baffin Island’s southern coast (Iqaluit, Kimmirut, Kinngait | Qikiqtani Region).
- One Landing on Southampton Island (Coral Harbour [Salliq] | Kivalliq Region).

The KBC Project will connect to a Branching Unit (BU) in Nunavik waters, northwest of Salluit (Nunavik), which was completed as a component of Phase 2 of the Kativik Regional Government (KRG) Eastern Arctic Underwater Fibre Optic Network (EAUFON) Project (EAUFON Project).

Prior to finalization of the detailed design phase of the KBC Project, a Horizontal Directional Drilling (HDD) Engineering Support Program (the KBC HDD Engineering Support Program) is required at each of the marine landings. The KBC HDD Engineering Support Program will be carried out by Worley Canada Services Ltd (Worley Consulting).

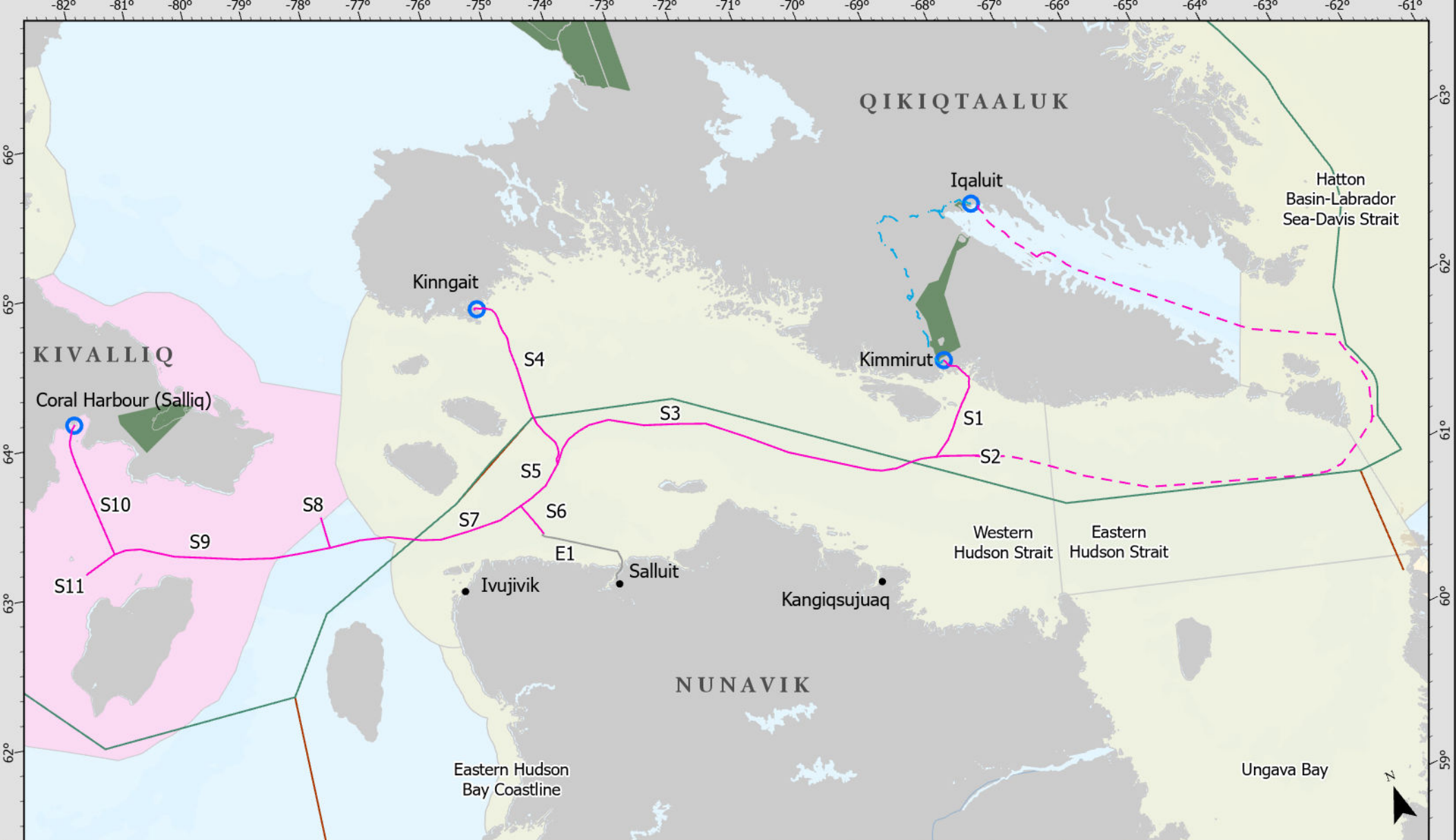
1.2 Introduction and Project Location

The KBC Project is considered transboundary as it has components in both the Nunavut Settlement Area (NSA) and the Nunavik Marine Region (NMR). The marine component of the cable is composed of 11 segments (excluding Iqaluit, see Figure 1-1), where Segment Nos. 3 to 7 are the transboundary portions that cross from the NSA to the NMR. Segment No. 6 will connect to the existing EAUFON Project BU, currently on the seabed, that was left during the EAUFON Project installation. The EAUFON Project BU is an undersea body serving as a “Y” joint in the cable that allows fibre pairs to be directed away from the main trunk cable for additional connectivity (the “branch”). The EAUFON BU includes a 2 km stub length of cable which will be accessed during the installation phase of the KBC Project. The number of additional segments required to extend the marine cable lay from Segment No. 2 is under review and will be addressed during the permitting process for the KBC Project installation.

The requirement for HDD is exclusive to the NSA and will occur in all communities with a marine landing (Coral Harbour (Salliq), Kimmirut and Kinngait) Should Iqaluit be explored as an HDD option, a 2026 field program would be planned.

1.3 Permits and Approvals

Permits or approvals required from Institutions of Public Government (IPGs) and Authorities Having Jurisdiction (AHJ) (collectively referred to as AHJ for the intention of this document) are provided in Section 6.2 (Table 6-2).



Drawn: BB	Kivalliq-Baffin Connector Project	
Edited: CL	Kivalliq-Baffin Connector Project Cable Route & Designated Habitats	
Approved: VBC		
		Spatial Reference GCS: GCS North American 1983 Datum: North American 1983 Projection: Albers Map Units: Metre
		

Figure 1-1



1.4 Letter and Program Intention

This is the KBC HDD Engineering Support Program application letter to support the screening process with the Nunavut Impact Review Board (NIRB) where a screening is expected, and a Screening Decision Report (SDR) will be issued.

The intention of the KBC HDD Engineering Support Program is to assess seabed and subsurface (soil, rock, groundwater and permafrost) conditions to support the detailed design phase of the KBC Project. These requirements for HDD is exclusive to the NSA.

The GN-TIN will submit a separate application to the NPC for the cable installation phase of the KBC Project. The HDD installation will be a part of that application. This KBC HDD Engineering Support Program is needed to support the detailed design and permitting phases of the KBC Project.

1.5 Project Name

KBC HDD Engineering Support Program.



2 Proponent and Representative Details

Contact information for the proponent is provided in Table 2-1.

Table 2-1: Proponent and Contact Information

Information Request	Details
Proponent Contact Information: Government of Nunavut	
Name	Victoria Burdett-Coutts, MSc., RPBio. Senior Regulatory Advisor
Address	PO Box 1000 Station 700 Department of Transportation and Infrastructure Nunavut Iqaluit, NU X0A 0H0
Telephone / Fax	1-778-839-2372
Email	Vburdett-coutts@gov.nu.ca
Geoscience Specialist: Worley Consulting Ltd.	
Name	Jeff Gibson, BC PLEng. Geoscience – Operations Manager
Address	Suite 200, 2930 Virtual Way, Vancouver, BC V5M 0A5
Telephone / Fax	1-604-779-1884
Email	Jeffrey.Gibson@worley.com

3 Project Description

3.1 Scope

The intention of the KBC HDD Engineering Support Program is provided in Section 1.4.

The KBC HDD Engineering Support Program will be composed of three main survey types as summarized below with specific survey types described in Table 3-1. Additional details are provided in Section 2 (Table 2-1) of the Environmental Management Plan (EMP) (Dynamic Ocean, 2025e).

Table 3-1: Kivalliq-Baffin Connector Horizontal Directional Drilling Engineering Support Program Components

Activity Name	Location		Ground/Seabed Interaction
	Marine	Terrestrial	
Geotechnical Program			
Cone Penetration Tests (CPTs)	✓	-	Yes
Visual assessment	✓	✓	No
Boreholes	✓	✓	Yes
Thermistors	✓	✓	Yes
Geophysical Program			
Swath bathymetry using a Multibeam Echosounder (MBES)	✓	-	No
Side Scan Sonar (SSS)	✓	-	No
Electrical Resistivity Tomography (ERT)	-	✓	Yes
Downhole Optical Televiewer (OTV)	✓	✓	Yes
Acoustic Televiewer (ATV)	✓	✓	Yes
Magnetometer	✓	-	No
Seismic Reflection & Refraction	✓	✓	Yes
Subbottom profiler (SBP)	✓	-	No
Sound Velocity Profiling (SVP)	-	-	No
Topographic Survey			
LiDAR	✓	✓	No
Drone	✓	✓	No
Biological Program			
Remote Operated Vehicle (ROV), Drop Camera	✓	-	No
Hydrophone (potential)	✓	-	Potentially



3.2 Study Areas

Study Areas have been developed for land- and marine-based areas respective to their footprints. The Study Area will be a 75 m buffer on either side of the alignment (150 m corridor), extending 100 m past both proposed Punch Out (PO) points offshore, and the terrestrial components (Beach Manhole (BMH)¹, Punch-In (PI)²)

The location of the PI and POs is provided in Table 3-2.

¹ A concrete chamber, buried into the beach or road behind the landing point, and is the transition point between marine cable and terrestrial cable.

² Terrestrial-based entrance point for HDD.

Table 3-2: Kivalliq-Baffin Connector Project Marine Landings

Location	Location Description	Punch-Out		Punch-In		Pertinent Water Bodies	Hunter and Trappers Association / Organization
		Latitude	Longitude	Latitude	Longitude		
Qikiqtani Region							
Kimmirut	Southern Baffin Island.	62° 50.484'N	69° 51.620'W	62° 50.591'N	69° 52.132'W	Glasgow Bay, Hudson Strait	Mayukalik Hunters and Trappers Organization (HTO).
Kinngait	Dorset Island on southwest coast of Baffin Island.	64° 14.334'N	76° 32.895'W	64° 14.152'N	76° 32.565'W	Foxe Basin, Hudson Strait	Aiviq HTO.
Iqaluit	Frobisher Bay on south end of Baffin Island.	63° 42.837'N	68° 27.789'W	63° 43.445'N	68° 26.778'W	Frobisher Bay, Davis Strait	Amaruq Hunters and Trappers Association (HTA), Hamlet of Iqaluit.
Kivalliq Region							
Salliq (Coral Harbour)	Southampton Island.	64° 06.286'N	83° 13.678'W	64° 06.846'N	83° 12.551'W	Hudson Bay	Aiviit HTO.



3.3 Schedule

The KBC HDD Engineering Support Program will likely be supported by several consultants who are supporting Worley Consulting to complete the activities. There may be three to five field programs performed in each community which would be carried out between the open water season of 2025 to the spring of 2027. Collectively, this will be up to 40 days in each community.

3.4 Personnel

The crew size will vary depending on the surveys being carried out the activities being performed to support multiple field programs. It is expected to be between approximately three to 15 people. The primary Point of Contact (PoC) will be Victoria Burdett-Coutts or Jeff Gibson (see contact details in Table 2-1).

3.5 Opportunities for Local Participation

The research team will require local support such as wildlife monitors, field assistants, boat/operators, trucks, All-Terrain Vehicles (ATVs) etc.

4 Consultation

Letters to inform communities of the KBC HDD Engineering Support Program have been sent to the respective Nunavut communities (summarized in Table 4-1).

Table 4-1: Communities Engagement for the Kivalliq-Baffin Connector Horizontal Directional Drilling Support Program

Community	Associated Organizations	Reference
Coral Harbour (Salliq)	Aiviit HTO, Hamlet of Coral Harbour (Salliq)	Dynamic Ocean (2025a)
Kimmirut	Mayukalik HTO, Hamlet of Kimmirut	Dynamic Ocean (2025b)
Kinngait	Aiviq HTO, Hamlet of Kinngait	Dynamic Ocean (2025c)
Iqaluit	Amaruq HTA, Hamlet of Iqaluit.	Dynamic Ocean (in-prep)

5 Project Map

See Figure 1-1, and Appendix A (Figure A-1, Figure A-2, Figure A-3, Figure A-4).

6 Land Use and Licensing

6.1 Land Use

The Land Use information for the KBC HDD Engineering Support Program is provided in Table 6-1.



Table 6-1: Land Use Summary for the Kivalliq-Baffin Connector Horizontal Directional Drilling Engineering Support Program

Region	Category	Description
Nunavut (NSA)	Administrative Boundary	Qikiqtaaluk Region (Kimmirut, Kinngait, and Iqaluit) Kivalliq Region (Coral Harbour)
	Planning Region	Qikiqtaaluk Region (Kimmirut, Kinngait, and Iqaluit) Keewatin (Coral Harbour)
	Land Use	Field activities most closely categorized as scientific research
	Land Ownership	Crown

6.2 Approvals

Approvals expected to be required for the KBC HDD Engineering Support Program are summarized in Table 6-2.

Table 6-2: Approvals Required for the Kivalliq-Baffin Connector Horizontal Directional Drilling Engineering Support Program

Region	Authority Having Jurisdiction	Approval Type	Permit Status	Permit Number
Nunavut	Nunavut Planning Commission (NPC)	Conformity Determination	Submitted on 17-Jun-25 (Dynamic Ocean, 2025d). Issued on 23-Jul-25 (NPC, 2025).	150863
	NIRB	SDR	This application. Submitted on 08-Aug-25 (Dynamic Ocean, 2025f).	Pending Submission
	Nunavut Research Institute (NRI)	Research License	Required for all research activities that occur in Nunavut. Will be submitted once the NIRB SDR is issued.	Pending Submission
	Nunavut Water Board (NWB)	Water License	To be submitted if water withdrawal from freshwater courses is required (not expected at this time).	TBD if required
	GN-TIN	Land Use Permit (LUP) Coral Harbour (Salliq)	Not required. No interaction with Commissioner's Land or Untitled Municipal Land (see Appendix A (Figure A-1)).	-
		LUP (Kinngait)	May be required due to interaction with Commissioner's Land and Untitled Municipal Land (see Appendix A (Figure A-2)). GN-TIN Lands Department will be engaged to confirm if a LUP is required within its own department.	TBD if required
		LUP (Kimmirut)	May be required due to interaction with Commissioner's Land (see Appendix A (Figure A-3)). GN-TIN Lands Department will be engaged to confirm if a LUP is required within its own department.	TBD if required
		LUP (Iqaluit)	Not required. No interaction with Commissioner's Land or Untitled Municipal Land (see Appendix A (Figure A-4)).	-
	Kivalliq Inuit Association (KIA)	Right of Way (RoW) (Coral Harbour (Salliq))	Not required. No interaction with Inuit Owned Land (IOL) (see Appendix A (Figure A-1)).	-
	Qikiqtani Inuit Association (QIA)	RoW (Kinngait)	Not required. No interaction with IOL (see Appendix A (Figure A-2)).	-

Region	Authority Having Jurisdiction	Approval Type	Permit Status	Permit Number
Federal		RoW (Kimmirut)	Required due to interaction with IOL (see Appendix A (Figure A-3)).	Pending Submission
		RoW (Iqaluit)	Not required. No interaction with IOL (see Appendix A (Figure A-4)).	-
	Fisheries and Oceans Canada - Fish and Fish Habitat Protection Program (DFO-FFHPP)	Self assessment	A Request for Review (RFR) process is not anticipated. However, negative effects to fish and fish habitat have been addressed in the EMP and will be managed through Best Management Practices (BMPs), Standards and Codes of Practice (SCOPs), with Qualified Professional (QP) oversight.	-
	Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) ¹	Class A LUP (Coral Harbour (Salliq))	A LUP is required from CIRNAC for all activities that have a seabed interaction below the Ordinary High-Water Line (OHWL).	Pending Submission
		Class A LUP (Kinngait)		Pending Submission
		Class A LUP (Kimmirut)		Pending Submission
		Class A LUP (Iqaluit)		Pending Submission
	Transport Canada (TC)	Minor Works Order, no permit required	Compliance for TC will be met through the Minor Works Order. All pertinent navigation legislation will be followed under the <i>Canadian Navigable Water Act</i> and the <i>Canada Shipping Act</i> , including adherence to the Collision Regulations while working on the water.	-

7 Material Use & Waste Management

7.1 Equipment

Equipment expected to be required for the KBC HDD Engineering Support Program are summarized in Table 7-1. Exact specifications of equipment will be a contractor led decision, but the types of equipment used is not expected to change potential environmental effects outlined in Section 8.

Table 7-1: Equipment Requirements for the Kivalliq-Baffin Connector Horizontal Directional Drilling Engineering Support Program

Activity Name	Equipment Required	Quantity	Size & Dimensions	Proposed Use
Geotechnical Program				
CPT	CPT	1	2.5 m x 1.5 m	To support determination of simultaneous laying and burial of the cable.
Visual assessment	-	-	-	Visual observation to confirm beach manhole location and any potential anthropogenic / geological concerns.
Boreholes	Mounted drill (CME45/55)	1	2.5 m x 5.5 m x 3 m	Geotechnical drill rig for onshore and marine boreholes.
Thermistors	Thermistor Strings	2	10 m x 5 cm	Measure ground temperature to understand depth of active layer above permafrost.
Geophysical Program				
MBES	MBES	1	1 m x 50 cm	Bathymetry with an approximately 200 m wide survey corridor along HDD alignment.
SSS	SSS	1	2 m x 50 cm	Seabed type / conditions along and perpendicular to HDD alignment.
ERT	Electrodes and Cables	2	100 m x 5 cm	Differentiate surficial geology above the bedrock.
Downhole OTV and ATV	OTV / ATV Probe	1	2 m x 5 cm	Assess structural geology and groundwater conditions.
	Borehole Caliper	1	To be confirmed	Records borehole diameter and combined with the OTV / ATV

Activity Name	Equipment Required	Quantity	Size & Dimensions	Proposed Use
				probe, assesses the structural geology and groundwater conditions.
	Winch	1	To be confirmed	Used to lower the OTV / ATV probe.
Magnetometer	Magnetometer	1	2 m x 50 cm	Combined with SSS to assess seabed morphology and submerged objects.
Seismic Reflection & Refraction	Airgun	1	90 cm x 9 m	Seismic source for seismic refraction and Multi-channel Analysis of Surface Waves (MASW).
SBP	SBP	1	1 m x 1 m	Ground conditions below seabed with an approximately 200 m wide survey corridor along HDD alignment.
SVP	SVP	1	8 cm x 27 cm	To measure the speed of sound at different water column depths.
Topographic Survey				
LiDAR, drone	Drone	1	To be confirmed	Drone to conduct LiDAR and aerial surveys.
Biological Program				
ROV, Drop Camera	ROV	1	72 cm x 24 cm x 44 cm	Visual observations of seabed conditions along and perpendicular to the HDD alignments.
	Drop Camera	1	2.5 m x 1.5 m	
Hydrophone (potential)	Hydrophone	1	530 mm long x 60 mm diameter	Assess for noise (anthropogenic) and sound (marine mammals).

7.2 Fuel Use

Fuel will be required to operate vessels during the field programs that occur during the open water season, and to operate equipment that occurs over water during the field programs that occur during the iced season. There will also be requirements for land-based field programs to operate equipment and support vehicles.



All fueling that occurs throughout the KBC HDD Engineering Support Program will be conducted in accordance with the BMPs including but not limited to procedures that prevent spillage into the marine environment, routine checks of fuel storage containers, and inspection records for equipment that requires fuel. Over water re-fueling may be required depending on the types of equipment used during the KBC HDD Engineering Support Program, and the contractor will verify the use of secondary containment, drip trays, and fuel line check valves. The selected vessel will carry a Shipboard Oil Pollution Emergency Plan (SOPEP) and maintain an oil record book to document oil and sludge transfers. More details on the mitigation measures surrounding fuel use are outlined in Sections 5.3.7 and 5.3.9 of the EMP (Dynamic Ocean, 2025e).

7.3 Water Consumption

Water consumption will only be required for marine- and land-based drilling operations. Fresh water may be used for the onshore drilling operation at a rate of 3,000 L per borehole. Fresh water will be obtained from the hamlets' water truck. Water is expected to be withdrawn from the ocean. The exact consumption of marine water is not known at this time and will be 'as required' for drilling. Water intakes for withdrawal of water from the marine environment will be of an appropriate mesh size to not impinge fish on the screen, while being in compliance with DFO SCOPs for end-of-pipe fish screens (DFO, 2024).

7.4 Hazardous Materials

Hazardous materials that may be required for the KBC HDD Engineering Support Program have not been confirmed at this time, as it will be a contractor led decision. However, any hazardous materials required will be appropriately stored on the vessel. Storage and handling procedures designed to prevent harm to personnel and the environment from hazardous materials will be as per the appropriate Safety Data Sheets (SDS). The SDS will be kept on site.

7.5 Waste

The KBC HDD Engineering Support Program will utilize a "pack in, pack out" policy in terms of waste management. Bulk waste is not anticipated during these studies. Some non-combustible waste will be created from consumables during the Program (bottles, bags, gloves, etc.). The field crew will use existing facilities to process sewage and human waste.



8 Environmental Management

Mitigation measures for these identified effects will be followed to provide effective environmental management in compliance with the legislation of pertinent AHJs and BMPs (see Table 8-1).

Table 8-1: Kivalliq-Baffin Connector Project Horizontal Direction Drilling Engineering Support Program Environmental Effects and Mitigation

Environmental Effect	Mitigation
Disturbance of terrestrial and marine habitat and wildlife	Field personnel will be accompanied by local field assistants to confirm minimal disturbance to terrestrial and marine habitats and organisms.
Disruption of traditional use of proposed study area	Arrival of the research team will be advertised in advance of the field study. There is no aspect of works required that would modify the use of terrestrial or marine areas by local people
Temporary sediment suspension	The footprint of the boreholes is not expected to be impactful to the seabed, and turbidity is not expected to result in exceedances of the federal Canadian Council of Ministers of the Environment (CCME) Water Quality Guidelines (WQG) (CCME, 1999).
Increased overall anthropogenic presence within the Study Area	The research team is small and are conducting non-invasive short-term studies.
Waste production and accidental spill	All spills will be reported in accordance with the <i>Spill Contingency Planning and Reporting Regulations</i> by calling the 24-hour Spill Report Line at 867-920-8130.

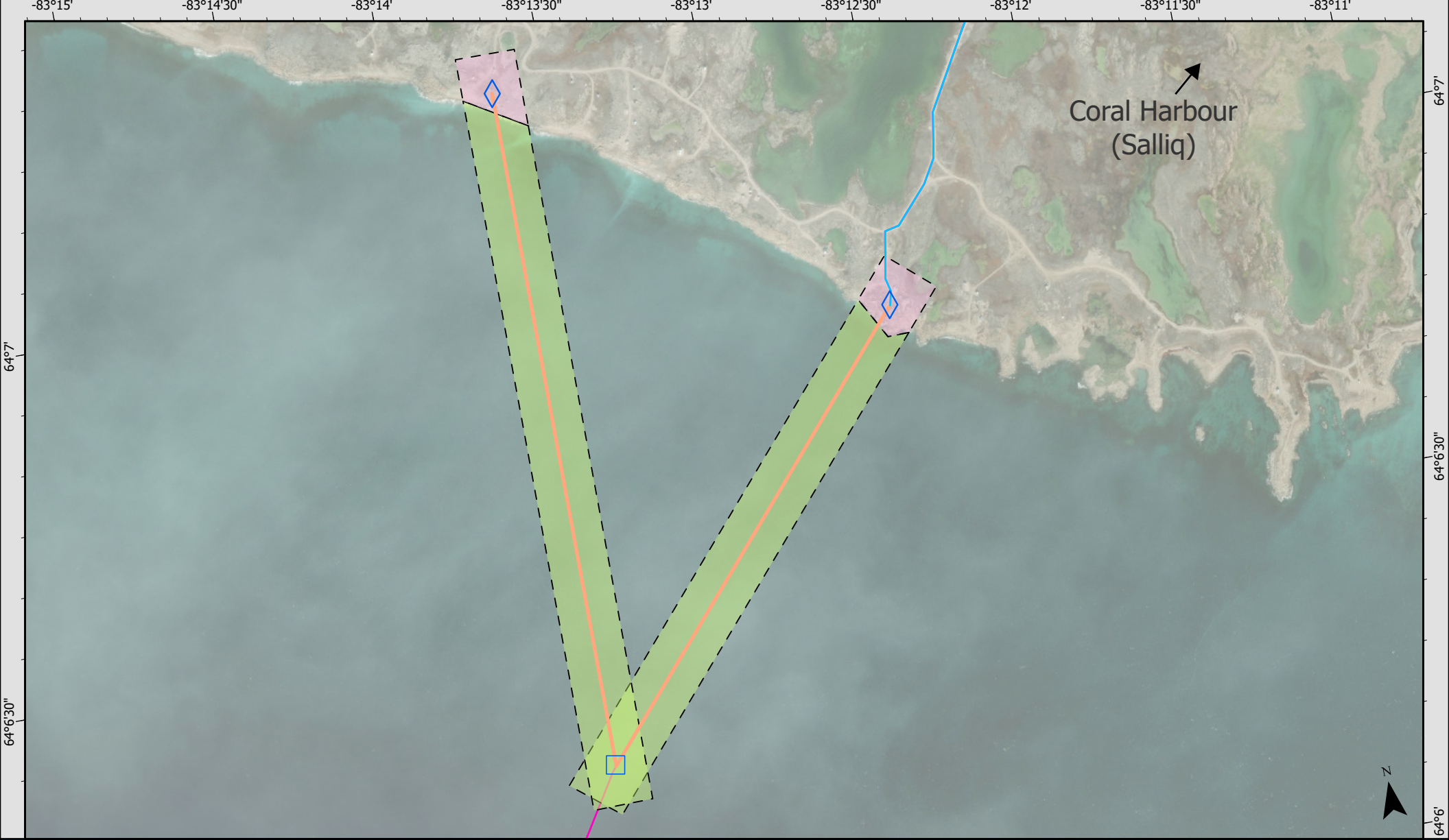


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Appendix A: Supporting Figures





Legend

Study Area

- Marine Activities
- Terrestrial Activities

Project Components

- Marine Cable
- Terrestrial Cable
- HDD to BMH Cable
- HDD Punch-out Point
- ◆ Beach Manhole

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Edited: CL

Approved: VBC

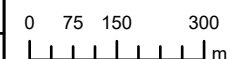
Kivalliq-Baffin Connector Project

Coral Harbour Horizontal Directional Drilling Study Area

Figure A-1

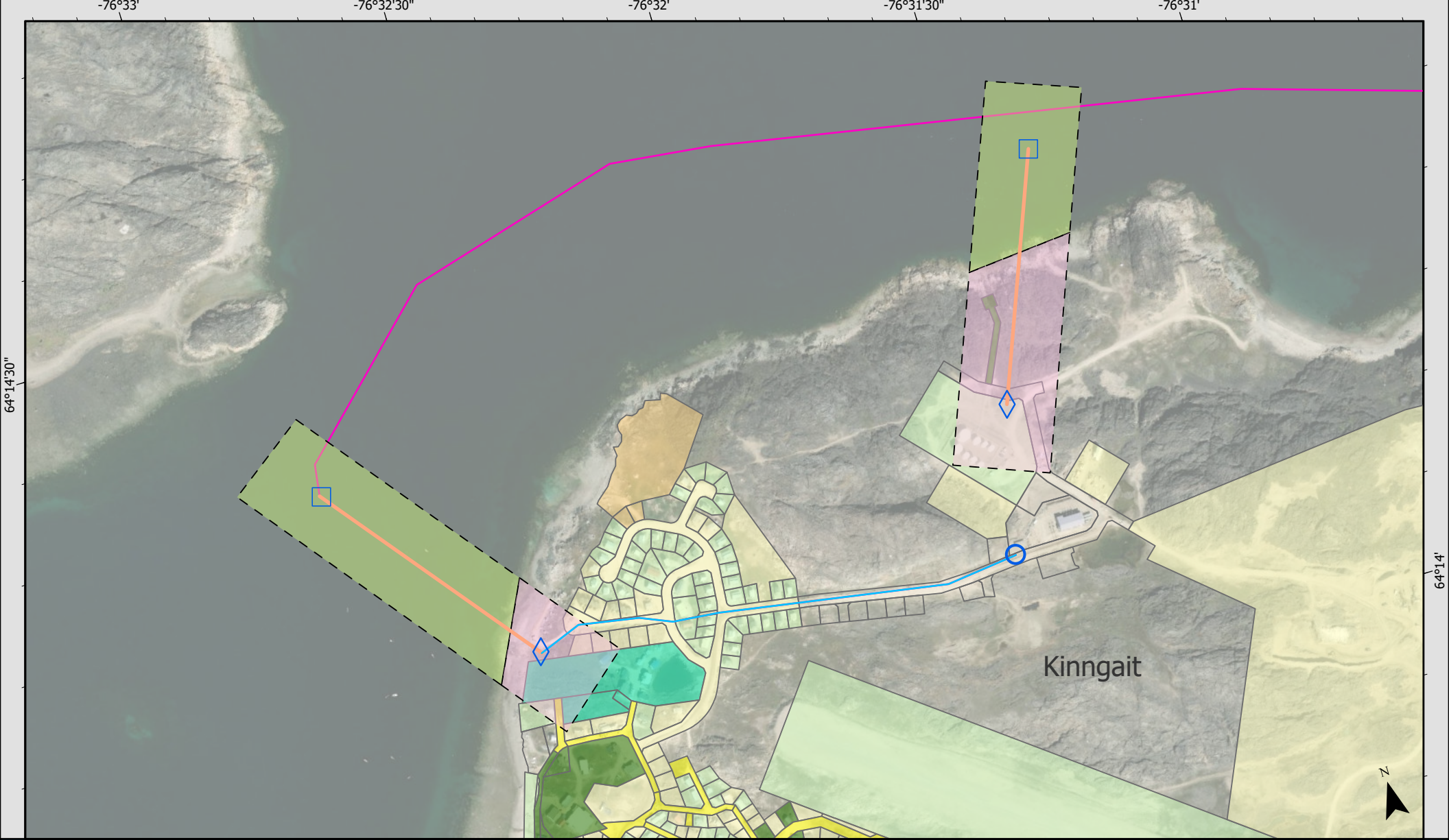


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Projection: Lambert Conformal Conic
Map Units: Metre



Scale: 1:13,000





Legend

Study Area

- Marine Activities
- Terrestrial Activities

Project Components

- Marine Cable
- Terrestrial Cable
- HDD to BMH Cable
- Cable Landing Station
- HDD Punch-out Point
- Beach Manhole

Land Tenure

Interaction

- Municipal
- Untitled Municipal
- Inuit Owned Land
- Commissioner's Land
- Federal
- Untitled Commissioner's Land

No Interaction

Drawn: BB

Edited: CL

Approved: VBC

Kivalliq-Baffin Connector Project

Kinngait Horizontal Directional Drilling Study Area

Figure A-2

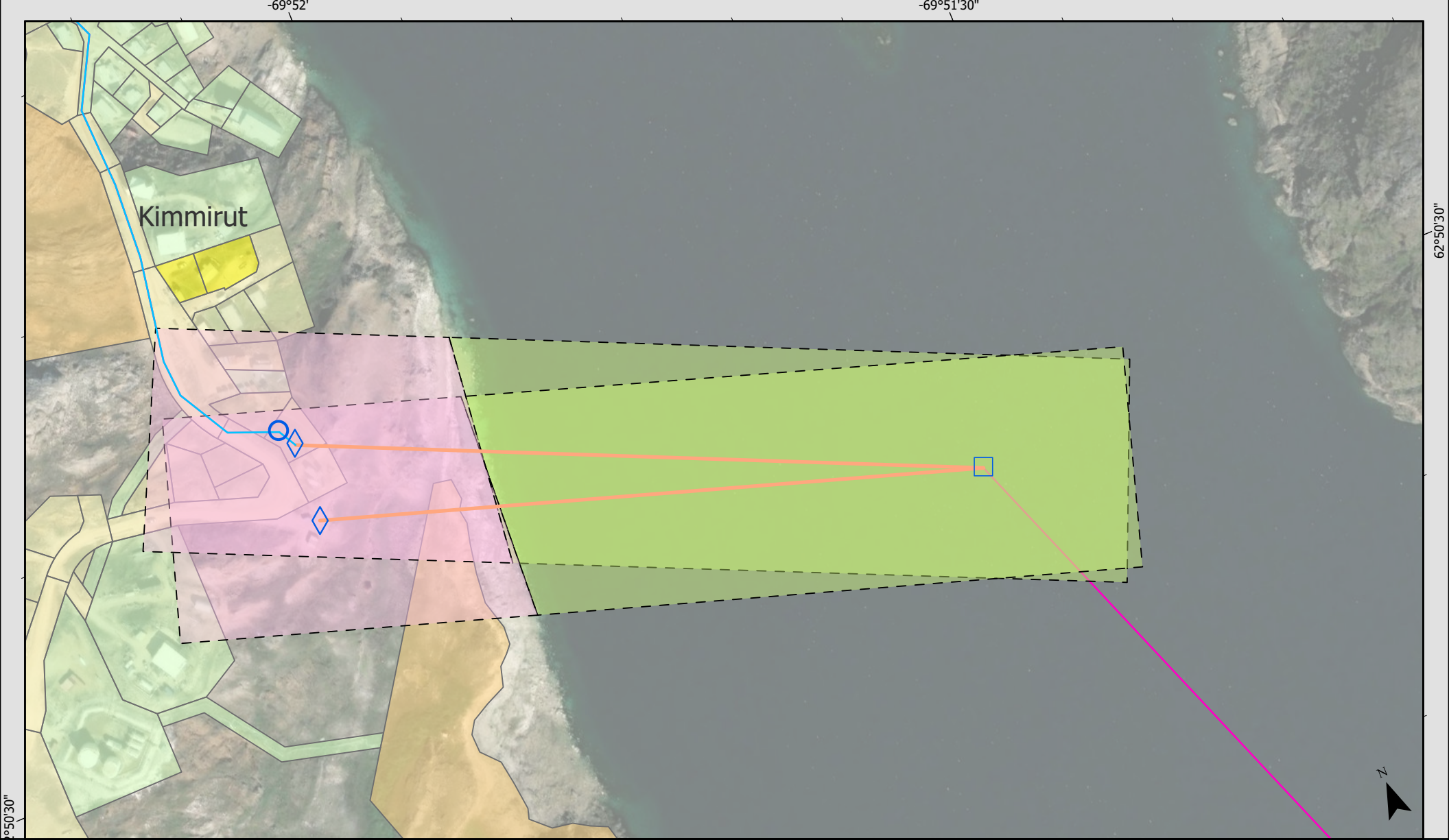


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Projection: Lambert Conformal Conic
Map Units: Metre

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Scale: 1:8,000





Legend

Study Area

- Marine Activities
- Terrestrial Activities

Project Components

- Marine Cable
- Terrestrial Cable
- HDD to BMH Cable
- Cable Landing Station
- HDD Punch-out Point
- Beach Manhole

Land Tenure

- Municipal
- Inuit Owned Land
- Commissioner's Land
- Untitled Municipal

No Interaction

Drawn: BB

Edited: CL

Approved: VBC

Kivalliq-Baffin Connector Project

Figure A-3 Kimmirut Horizontal Directional Drilling Study Area



Spatial Reference
GCS: GCS North American 1983
Datum: North American 1983
Projection: Lambert Conformal Conic
Map Units: Metre

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m

Scale: 1:3,500





Legend

Study Area

- Marine Activities
- Terrestrial Activities

Project Components

- Marine Cable Route
- Terrestrial Route
- HDD Punch-out Point
- Beach Manhole

Drawn: CL

Edited: CL

Approved: VBC

Kivalliq-Baffin Connector Project

Iqaluit Horizontal Directional Drilling Study Area

Figure A-4



Spatial Reference
GCS: GCS North American 1983
Datum: North American 1983
Projection: Lambert Conformal Conic
Map Units: Metre

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Scale: 1:12,000

