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Application for Approval

General Information

Registry Number

10746

Application Title

Market Wharf Approach Trestle Replacement Project

TC File Number

N/A

Are you the riparian property owner?

No

Is the body of water listed on the schedule to the CNWA?

Yes

Are you representing an Indigenous group?

No

Is the work near/on First Nations reserve or land claim?

No

Are you applying for a Governor in Council exemption to the prohibitions (sections 21 to 24 of the CNWA)?

No

Does this project involve throwing or depositing materials in water?

No

Does this project involve dewatering a body of water?

No

Work Site Information

Province/Territory

New Brunswick

Geographical Area (nearest municipality/county/district)

Charlotte County

Body of water

N/A

Enter the name of the waterway

St Andrews Harbour

Site location such as Lot, Concession, Section, Township, Range, Meridian, 911 Address, Property, Identification etc...

Market Wharf is located at the intersection of Water Street and King Street in Saint Andrews, New Brunswick, and extends approximately 275 m out from shore into Saint Andrews Harbour. The site can be accessed by road, or via Saint Andrews Harbour.

Legal Land Description

Market Wharf is located at the intersection of Water Street and King Street in Saint Andrews, New Brunswick, and extends approximately 275 m out from shore into Saint Andrews Harbour. The coordinates for Market Wharf are centered at approximately 653214.4 m E and 4992912.6 m N (NAD83 UTM 19N), and the Property Account Number for the existing Market Wharf is 04936538 (Market Wharf property). The PANs for the shoreline and waterlot properties adjacent to Market Wharf are as follows; 04905537, 01468510, 05024172, 05024164, 05260273, 01468502.

Site Location

Latitude

45.072810

Longitude

-67.053760

Canadian Hydrographic Chart Number

CHS#4115

Topographic Map Number

021G03

Project Information**Work Item 1****Work Type**

Infill

Work Subtype

No work subtype

Work Statuses

- Construct

Work Sub-Status

Permanent

Prohibition Type

N/A

Brief project description

CBCL was engaged by the Town to provide engineering services, including detailed design and tendering services, in support of proposed rehabilitation and expansion works at the Market Wharf. The wharf requires rehabilitation to extend its operational lifespan, and the Town would like to expand the footprint of the usable wharf area on shore. The Town have determined that their preferred option for rehabilitation and expansion of the wharf (the Project) is the Hybrid Infill and Partial Pile Wharf design option, which involves the installation of a 4,545 sq. m rubble mound berm and steel pile supported concrete deck structure along the existing shoreline to increase the useable wharf area on shore. The new 41 m long x 7.62 m wide Approach Trestle consists of steel pipe piles supporting a reinforced concrete super structure which will extend from the new shore infill and transition to the existing Intermediate Trestle. The new wharf

section will require the installation of approximately 30 new steel piles to support the Approach Trestle. An armour stone revetment will also be installed around the new infilled areas and along the existing seawall at the Project site. This protection will be constructed with a 1:1.5 Vertical / Horizontal slope and will consist of a rock fill core protected by a layer of sub-armour drain stone (700 mm thick of 50 - 150 kg stone) and an outer layer of armour stone (1400 mm thick of 500 - 1500 kg stone).

Construction of the new infrastructure will require infilling below the ordinary high water mark (OHWM). Based on the selected design, there are three general footprint areas below the OHWM that require infilling, including a total area of approximately 1,460 sq. m on the northwest side of the existing wharf, 2,440 on the southeast side of the existing wharf, and 645 sq. m in the area of the existing Approach Trestle during construction of the proposed works. A temporary infill area adjacent to the Approach Trestle may also be ...

Method of construction

PROJECT DESCRIPTION CONTINUED.... required to allow pile driving cranes and associated equipment access to this area during construction. It is estimated that the temporary infill area, if constructed, will be up to approximately 800-1000 sq. m of rocky fill materials, and these materials will be completely removed from the site following the completion of construction at the Approach Trestle.

METHOD OF CONSTRUCTION

The equipment required to construct the new wharf infrastructure will include standard construction equipment (e.g., light and heavy haul trucks, backhoe, crane and pile driving equipment).

The general construction sequence for the Project will entail the following major tasks:

- Delineate buffer zones around the new infrastructure and install environmental controls (e.g., turbidity curtain, etc.).
- Remove existing infrastructure in Project footprint area where necessary.
- Infill area on shore for usable wharf space and adjacent to structures with granular fill materials. A temporary infill area may also be installed alongside the Approach Trestle.

Anticipated impacts

Impacts to navigation are expected to occur during the construction of new infrastructure at Market Wharf due to the temporary closure of the facility for the duration of construction. Following construction, the infilled area will no longer be available for navigation, although this area can currently be used only temporarily at high tide. The new Approach Trestle will not affect navigation at the facility, as it will be constructed in the footprint of the existing trestle structure. Overall, construction of the new infrastructure is not expected to have significant impacts on navigation in Saint Andrews Harbour.

Expected Construction Start Date

2024-10-01

Expected Construction End Date

2025-05-30

Environmental Review Information**Is the work located on Federal lands?**

No

Is the project a designated project under the Physical Activities Regulations under the Impact Assessment Act?

No

Is the project subject to Northern Environmental Assessment (EA) Regime(s)?

No

If yes, identify the northern EA regime(s) that apply

N/A

Other Federal Organizations Involved

• Fisheries and Oceans Canada (DFO)

If 'Other', Please Specify

N/A

Submission Date

2024-05-23