

Construction & Refurbishment of Bay Class
SAR Lifeboat Marine Infrastructures
Burin, NL
R.116548.001

2022-01-17

PART 1 - GENERAL

1.1 DESCRIPTION

- .1 This specification section includes the requirements for dredging prior to rock mattress placement, and disposal of dredged materials.
- .2 All material to be dredged prior to rock mattress placement will consist of Class B material, varying sizes of boulders, obstructions and debris as outlined in the definitions.
- .3 Refer to the Environmental/Regulatory responses associated with this project as it relates to disposal options for dredged materials. All disposal/tipping fees are the responsibility of the Contractor. Note that all sediment is considered to contain total petroleum hydrocarbon concentrations which exceed landfill disposal guidelines. In this regard, disposal of all dredged material is to be to a biopile soil treatment facility with a current certificate of approval from the Provincial Department of Environment and Climate Change. The facility must be able to receive and treat soils/sediments impacted with total petroleum hydrocarbons and other metals/compounds as identified in the Regulatory documentation applicable to this project.

1.2 MEASUREMENT FOR PAYMENT

- .1 Dredging Prior to rock mattress placement: Dredging prior to rock mattress placement will be measured in cubic metres (m3). Include all equipment, material and labour, including dredging, transportation, handling and waste disposal tipping fees.

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1.3 INSPECTION OF
SITE

- .1 Contractor to visit site of work and become thoroughly familiar with extent and nature of work and conditions affecting work before bidding. Contractor is to note that this location is very exposed ice, wind and sea swells and dredging operations will be limited due to weather conditions.

1.4 DEFINITIONS

- .1 Dredging: excavating, transporting and disposing of underwater materials.
- .2 Class A material: solid rock requiring drilling and blasting to loosen, and boulders or rock fragments of individual volumes 6 m³ or more.
- .3 Class B material: loose or shale rock, silt, sand, quick sand, mud, shingle, gravel, clay, sand, gumbo, large boulders, hardpan and debris of individual volumes less than 6 m³.
- .4 Obstructions: material other than Class A, having individual volumes of 6 m³ or more.
- .5 CMPM: cubic meters place measurement.
- .6 Debris: pieces of wood, wire rope, scrap steel, pieces of concrete and other waste materials.
- .7 Estimated quantity:
 - .1 Volume of material calculated to be above grade and within specified limits shown on the drawings.
- .8 Chart Datum: permanently established plane from which soundings or tide heights are referenced, usually Lowest Normal Tide (LNT).
- .9 Lowest Normal Tide (LNT): plane so low that tide will seldom fall below it.

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- .10 Cleared Area: area of dredging accepted as achieving the required grade and verified by a PWGSC survey.

1.5 REGULATORY REQUIREMENTS

- .1 There are strict environmental procedures that must be followed during the Work.
- .2 Comply with municipal, provincial and national codes and regulations relating to project.

1.6 SCHEDULING

- .1 Submit to Departmental Representative, within 2 weeks after acceptance of bid, schedule of work including time periods during which each operation involved in Work will be undertaken. At time of submission of schedule, meet with Departmental Representative to review schedule.
- .2 Adhere to schedule and take immediate action to correct any slippage by effectively altering operations or mobilizing other equipment. Notify Departmental Representative of corrective action to be taken.

1.7 LOCATION

- .1 Work comprises dredging prior to rock mattress placement as indicated on the drawing. Contractor to become familiar with the distance to the dredging limits, and plan his dredging methodology accordingly. All measures required to achieve the dredge depths and limits shown on the drawing are the responsibility of the Contractor. There will be no dredging permitted atop any of the existing infrastructure.

1.8 INTERFERENCE TO NAVIGATION

- .1 Be familiar with vessel movements and fishery activities in area affected by dredging operations. Plan and execute Work in manner

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that will not interfere with fishing operations, marine operations and construction activities at wharf site.

- .2 Canada will not be responsible for loss of time, equipment, material or any other cost related to interference with moored vessels in harbour or due to other Contractor's operations.
- .3 Keep the Marine Communications and Traffic Services' Centre, Fisheries and Oceans Canada, informed of dredging operations in order that necessary Notices to Mariners will be issued.

1.9 DATUM, WATER
GAUGES AND TARGETS

- .1 Elevations used in this specification and contract drawings are in meters referred to Canadian Hydrographic Services Survey datum.
- .2 Areas to be dredged are to be referenced to vertical bench marks for each location of dredging as indicated.

1.10 FLOATING PLANT

- .1 Dredges or other floating plants to be employed on this Work, to be of Canadian registry, make or manufacture, or, must receive certificate of qualification from Industry Canada, Aerospace, Defence and Marine Branch and this certificate to accompany bid submission.

1.11 SITE
INFORMATION

- .1 Results of most recent soundings and uplands elevations are included on the drawings. This data will be used for all calculations for quantity purposes. If the contractor wishes to perform own survey, a written notice must be submitted to the Departmental Representative (at least 7 day's notice) so PWGSC can verify the sounding survey before the commencement of any work.

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- .2 Take necessary steps to become fully familiar with potential inclement weather and sea conditions in this area.

PART 2 - PRODUCTS

2.1 DREDGING EQUIPMENT

- .1 Contractor to determine required equipment necessary to dredge material specified.

PART 3 - EXECUTION

3.1 GENERAL

- .1 Mark floating equipment with lights in accordance with the provisions of the Canada Shipping Act Collision Regulations and Notices to Mariners.
- .2 Place and maintain buoys, markers and lights required to define work and disposal areas.
- .3 Lay out Work from control points and baselines established by Departmental Representative. Be responsible for accuracy of Work relative to established bench marks and baseline. Provide and maintain electronic position fixing and distance measuring equipment, laser transits and such other equipment as normally required for accurate dredging control.
- .4 Establish and maintain water level gauges or tide boards in order that proper depth of dredging can be determined. Locate gauges and tide boards so as to be clearly visible.
- .5 Establish and maintain on-land targets for location and definition of designated dredge area limits. Targets to be suitable for control of dredging operations and locating soundings. Remove targets on completion of

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Work.

- .6 Dredge area prior to rock mattress placement as indicated on the drawings.
- .7 Dredge side slopes are shown on the drawings.
- .8 Remove materials above specified grade depths within limits indicated. Material removed from below grade depth or outside specified area is not part of Work.
- .9 Remove shoaling which occurs as a result of Work at no expense to Canada.
- .10 Remove material cast-over in surrounding area and dispose of it as dredged material. Do not cast-over material unless authorized by Departmental Representative.
- .11 Remove infilling in dredge areas which occurs prior to acceptance by Departmental Representative.
- .12 Immediately notify Departmental Representative upon encountering object which might be classified as obstruction. By-pass object after clearly marking its location and continue Work.
- .13 Dredging or equipment will not be permitted on the existing wharf infrastructure.
- .14 Dispose of all dredged material at an approved soil treatment facility with a current certificate of approval applicable to the contaminants of concern.
- .15 All trucks used in the transportation of dredged material to have tail gates with seals in good working order so as to prevent leakage of material or water from the truck. Truck

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boxes must be covered prior to leaving the site. Any trucks failing to meet these requirements will be rejected.

- .16 Dredged material that is saturated with water must allowed to drain back into the dredge area prior to leaving site for the disposal location. Contractor to take appropriate actions to ensure any excess water or saturated material in dump truck boxes is contained.
- .17 Dredged material must not be loaded from any areas on the existing wharf infrastructure.
- .18 If required by the Regulatory agencies, the Contractor to install containment/silt boom around area of dredging or the entire site as the dredging is being completed. The Contractor shall pay all associated costs.