

PART 1 - GENERAL

1.1 RELATED WORK

- .1 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Section 31 53 13 - Timber Cribwork.

1.2 MEASUREMENT FOR PAYMENT

- .1 Scour Protection: The supply and placement of stone for scour protection, including the cost of all plant, labour, equipment, and materials required to complete the Work, will be measured in cubic metres (m³) of material placed within the limits indicated on the drawings. The volume of material will be determined in place from measurements taken prior to and at completion of the Work.
- .2 Provide a sounding survey to DFO/SCH following the placement of new cribwork prior to and again after the installation of scour protection. No separate payment will be made for the sounding surveys. All excavation required to complete the installation of the scour protection will be considered incidental to the unit price.

1.3 REFERENCES

- .1 American Society for Testing and Materials (ASTM).
 - .1 ASTM C88-05, Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate.

- .2 ASTM C127-07, Standard Test Method for Specific Gravity and Absorption of Coarse Aggregate.
- .3 ASTM C535-03e1, Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Divert leftover aggregate material from landfill to a local facility as approved by Departmental Representative.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Scour protection material to meet following requirements:
 - .1 Hard, dense with relative density (formally specifically gravity) not less than 2.65, durable quarry stone, free from seams, cracks, or other structural defects, to meet following size distribution for use intended.
 - .2 Scour protection to be well graded with maximum size not exceeding 500mm on any side and minimum size of not less than 300mm on any side.

PART 3 - EXECUTION

3.1 PLACEMENT

- .1 Ensure that no frozen material is placed as part of Work.
- .2 Prevent segregation of material sizes during placement. Do not drop material through water.
- .3 Do not place material during weather judged to be unsuitable by Departmental Representative.
- .4 Place scour protection to thickness and details as indicated on drawings after placement of timber cribs.
- .5 Place scour protection to details as indicated on the drawings as soon as practical after placement of timber cribs.

3.2 ROCK MATERIAL
WASHED OUT OF WORK

- .1 Should, during the progress of the Work, any rock material be washed out of the Work, or through neglect or carelessness of the Contractor or workers or from any other cause, be dumped into the water near the Work or anywhere within the harbour, so as to interfere, in the opinion of the Departmental Representative, with actual depths of water and/or impede navigation, it will be removed by the Contractor when ordered to do so by the Departmental Representative. Any material washed out of the Work or displaced beyond the contract limits will be replaced by the

Contractor at no cost to
Canada.

3.3 TESTING

- .1 Submit rock material samples for testing to testing laboratory approved by Departmental Representative prior to commencement of quarry production. Allow sufficient lead time to perform and report results of tests before start of material production.
- .2 Contractor will be responsible for procurement of samples for testing and arrange and pay for shipment of samples to testing laboratory.
- .3 Departmental Representative will pay for costs associated with laboratory testing. The cost of retesting due to samples failing to meet the requirements of the contract will be the responsibility of the Contractor.
- .4 Only materials satisfactorily tested and approved by the Departmental Representative will be quarried and placed in the Work.

END OF SECTION