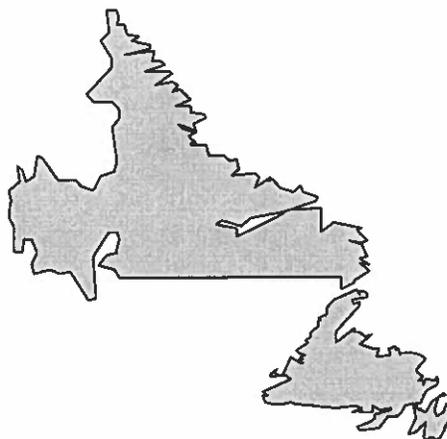


# SPECIFICATION

**Standing Offer  
Minor Marine Dredging  
Central Newfoundland**

**Solicitation No.: E0224-140991/A**



**Contracting Officer:**

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PUBLIC WORKS AND GOVERNMENT SERVICES CANADA  
SPECIFICATION FOR  
MINOR DREDGING  
CENTRAL, NL

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- 1.1 SCOPE .1 The work covered under this Standing Offer consists of the furnishing of all plant, labour, equipment, hardware and material to carry out minor marine dredging at various locations throughout Newfoundland, as indicated on attached Drawing No. 1 of 1, for the following regions:
- .1 Central Newfoundland: East of, and including Jackson's Arm and McCallum, West of, but not including Clarenville and Long Harbour (Fortune Bay). In strict accordance with specification and accompanying map and subject to all terms and conditions under this Standing Offer.
  - .2 Only items in the Unit Price Table will be measured for payment. All other work necessary to complete call-ups under the standing offer will be considered incidental to the standing offer and not measured separately for payment
- 1.2 DESCRIPTION OF WORK .1 The work will consist of, but will not necessarily be limited to the following:
- .1 The dredging and disposal of Class "B" material in various locations of Newfoundland.
  - .2 Dredging will be on a call-up basis.
- 1.3 SITE OF WORK .1 Work will be carried out at various locations in the regions specified in clause 1.1.1, as required, and directed by the Departmental Representative.
- .2 Due to the location of some projects, certain environmental conditions are in place and must be followed.
- 1.4 DATUM .1 Datum used for this project is Lowest Normal Tides (LNT). A bench mark location and elevation will be provided at each call-up location by the Departmental Representative.
- .2 Offerors are advised to consult the Tide Tables issued by Fisheries and Oceans in order to make sure of the tidal conditions affecting the work.
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1.5 FAMILIARIZATION WITH SITE .1

All offerors, before submitting their offer, are recommended to inspect and examine potential sites and its surroundings as identified in clause 1.1.1. and satisfy themselves as to the form and nature of the work and materials necessary for the completion of the works, the means of access to the site, severity, exposure and uncertainty of weather, soil conditions, any accommodations they may require, and in general shall obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. No allowance shall be made subsequently in this connection on account of error or negligence to properly observe and determine the conditions that will apply.

- .2 Contractors, bidders or those they invite to site are to review specification Section 01 35 29 - Health and Safety Requirements before visiting site. Take all appropriate safety measures for any visit to site, either before or after award of standing offer.

1.6 CODES AND STANDARDS .1

Perform work in accordance with the latest standards and regulations of federal, provincial and municipal jurisdictions as applicable, including all amendments up to the standing offer closing date. In any case of conflict or discrepancy, the more stringent requirements shall apply.

- .2 Materials and workmanship must meet or exceed requirements of specified standards, codes and referenced documents.

1.7 SETTING OUT WORK .1

Set grades and layout work in detail from control points and grades established by Departmental Representative.

- .2 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated or as directed by Departmental Representative. Dredged limits will be provided for each call-up site on a sketch provided by the Departmental Representative.

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- 1.7 SETTING OUT WORK  
(Cont'd)
- .3 Provide devices needed to layout and construct work.
  - .4 Supply such devices as straight edges and templates required to facilitate Departmental Representative's inspection of work.
  - .5 Supply stakes and other survey markers required for laying out work.
- 1.8 WORK SCHEDULE
- .1 Offerors are advised that the location for the work will be determined on a priority basis within the boundaries as outlined in clause 1.1.1.
  - .2 The Contractor will be required to mobilize to the call-up site within 48 hours of notification from the Departmental Representative.
  - .3 The schedule, including all updates, shall be to the Departmental Representative approval. Take necessary measures to complete work within approved time. Do not change schedule without Departmental Representative's approval.
- 1.9 NOTICE TO SHIPPING/MARINERS
- .1 Notify the Marine Communications and Traffic Services' Centre, of Fisheries and Oceans Canada, at (709) 772-2083, prior to commencement and upon completion of the work, in order to allow for the issuance of Notices to Shipping/Mariners.
  - .2 During dredging operations any vessels or barges utilized must be marked in accordance with the provisions of the Canada Shipping Act Collision Regulations.
- 1.10 SITE OPERATIONS
- .1 Arrange for sufficient space adjacent to project site for conduct of operations, storage of materials and so on. Exercise care so as not to obstruct or damage public or private property in area. Do not interfere with normal day-to-day operations in progress
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- 1.10 SITE OPERATIONS (Cont'd)
- .1 (Cont'd)  
at site. All arrangements for space and access will be made by Contractor.
  - .2 At completion of each call-up, restore area to its original condition. Damage to ground and property will be repaired by Contractor. Remove all materials, residue, excess, etc., and leave site in a condition acceptable to Departmental Representative.
- 1.11 PROJECT MEETINGS
- .1 Departmental Representative will arrange project meetings and assume responsibility for setting times and recording minutes. Project meetings will take place on site of work unless so directed by the Departmental Representative.
- 1.12 EXISTING SERVICES
- .1 Where work involves breaking into or connecting to existing services, carry out work at times directed by governing authorities, with minimum of disturbance to site operations, pedestrian, vehicular traffic, tenant operations.
  - .2 Before commencing work for each call-up, establish location and extent of service lines in area of work and notify Departmental Representative of findings.
  - .3 Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility. This includes disconnection of electrical power and communication services to tenant's operational areas. Adhere to approved schedule and provide notice to affected parties.
  - .4 Provide temporary services when directed by Departmental Representative to maintain critical facility systems.
  - .5 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
  - .6 Protect, relocate or maintain existing active services as required. When inactive services
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- 1.12 EXISTING SERVICES  
(Cont'd) .6 (Cont'd)  
are encountered, cap off in manner approved by authorities having jurisdiction over service. Record locations of maintained, re-routed and abandoned service lines.
- 1.13 DOCUMENTS  
REQUIRED .1 Maintain at each call-up site, one copy each of the following:  
.1 Contract Drawings or sketch  
.2 Specifications or requirements outline  
.3 Addenda  
.4 Other modifications to Contract  
.5 Field Test Reports  
.6 Copy of Approved Work Schedule  
.7 Site specific Health and Safety Plan and other safety related documents  
.8 Other documents as stipulated elsewhere in the Contract Documents.
- 1.14 TAXES & PERMITS. .1 Contractor to pay all applicable federal, provincial and municipal taxes as required.  
.2 Obtain and pay for all permits, certificates and licenses as required by Municipal, Provincial, Federal and other Authorities.  
.3 Provide appropriate notifications of project to municipal and provincial inspection authorities.  
.4 Obtain compliance certificates as prescribed by legislative and regulatory provisions of municipal, provincial and federal authorities as applicable to the performance of work.  
.5 Submit to Departmental Representative, copy of application submissions and approval documents received for above referenced authorities. Refer to all Regulatory Approvals and Responses already obtained by Canada for this project.  
.6 Comply with all requirements, recommendations and advise by all regulatory authorities unless otherwise agreed in writing by Departmental Representative. Make requests for such deviations to these requirements sufficiently in advance of related work.
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- 1.15 LOCATION OF EQUIPMENT .1 Location of cleats, jib cranes, equipment, fixtures, power pedestals and outlets, shown or specified shall be considered as approximate. Actual location will be determined on site before start of dredging work.
- .2 Locate equipment, fixtures and distribution systems to provide minimum interference and maximum usable space and in accordance with manufacturer's recommendations for safety, access and maintenance.
- 1.16 FISH HABITAT .1 The Standing Offer work is being conducted in an area where fish habitat may be affected. Perform work to conform with rules and regulations governing fish habitat and in accordance with authorization for work or undertakings affecting fish habitat. The contractor will contact the Department of Fisheries and Oceans detachment at least 48 hours in advance of starting any work for each call-up location.
- .2 Offerors are advised to contact Fisheries and Oceans to apply for an "Authorization for Work or Undertakings Affecting Fish Habitat" for each Call-up.
- 1.17 WORKS COORDINATION .1 Mobilization to each call-up location is to commence within 48 hours after each call-up has been issued and submission of Site Specific Safety Plan, unless otherwise agreed by Departmental Representative.
- .2 Make every effort to ensure that sufficient equipment is delivered to site after each call-up has been issued.
- .3 Canada will not be responsible for or held accountable for any extra costs incurred as a result of the failure to carry out coordination work. Disputes between the various trades as a result of their not being informed of the areas and extent of interface work shall be the sole responsibility of the General Contractor and shall be resolved at no extra cost to Canada.
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- 1.18 CONTRACTOR'S USE OF SITE
- .1 Dredging operations, including storage of materials for this contract, not to interfere with the fishing activity and/or operations at this harbour facility. Check with local Harbour Authority before commence of any work.
  - .2 Responsible for arranging the storage of materials on or off site, and any materials stored at the site which interfere with any of the day to day activities at or near the site will be moved promptly at the Contractor's expense, upon request by Departmental Representative.
  - .3 Contractor will take adequate precautions to protect existing concrete decks and asphalt when operating tracked equipment.
  - .4 Exercise care so as not to obstruct or damage public or private property in the area.
  - .5 At completion of work, restore area to its original condition. Damage to ground and property will be repaired by Contractor. Remove all construction materials, residue, excess, etc., and leave site in a condition acceptable to Departmental Representative.
- 1.19 INVOICING
- .1 Contractor is required to notify Departmental Representative upon completion of work at each call-up location before submitting invoice
  - .2 Invoice must show:
    - .1 Standing Offer number.
    - .2 Call-up number.
    - .3 Work location.
    - .4 Description of Work.
    - .5 Project Number.
    - .6 Quantities broken down as per unit price table.
  - .3 Support documentation and back-up invoices are to be provided as required.
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- 1.20 FACILITY .1 Comply with smoking restrictions.  
SMOKING ENVIRONMENT
- 1.21 INTERPRETATION .1 Supplementary to the Order of Precedence  
OF DOCUMENTS article of the General Conditions of the  
Contract, the Division 01 sections take  
precedence over the technical specification  
sections in other Divisions of the  
Specification Manual.
- 1.22 MEASUREMENT .1 No measurement for payment shall be made for  
FOR PAYMENT items under this section. All costs associated  
with this specification section will be  
considered incidental to the standing offer.

1.1 DEFINITIONS

- .1 COSH: Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.
- .2 Competent Person: means a person who is:
  - .1 Qualified by virtue of personal knowledge, training and experience to perform assigned work in a manner that will ensure the health and safety of persons in the workplace, and;
  - .2 Knowledgeable about the provisions of occupational health and safety statutes and regulations that apply to the Work and;
  - .3 Knowledgeable about potential or actual danger to health or safety associated with the Work.
- .3 Medical Aid Injury: any minor injury for which medical treatment was provided and the cost of which is covered by Workers' Compensation Board of the province in which the injury was incurred.
- .4 PPE: personal protective equipment
- .5 Work Site: where used in this section shall mean areas, located at the premises where Work is undertaken, used by Contractor to perform all of the activities associated with the performance of the Work.

1.2 SUBMITTALS

- .1 Submit site-specific Health and Safety Plan prior to commencement of Work.
  - .1 Submit within (24) hours prior to start of work. Provide 1 copy by email or fax to the Department Representative.
  - .2 Departmental Representative will review Health and Safety Plan and provide comments.
  - .3 Revise the Plan as appropriate and resubmit prior to start of work.
  - .4 Departmental Representative's review and comments made of the Plan shall not be construed as an endorsement, approval or implied warranty of any kind by Canada and does not reduce Contractor's overall responsibility for Occupational Health and Safety of the Work.
  - .5 Submit revisions and updates made to the Plan during the course of Work.

1.2 SUBMITTALS  
(Cont'd)

- .2 Submit name of designated Health & Safety Site Representative and support documentation specified in the Safety Plan.
- .3 Submit building permit, compliance certificates and other permits obtained.
- .4 Submit copy of Letter in Good Standing from Provincial Workers Compensation or other department of labour organization.
  - .1 Submit update of Letter of Good Standing whenever expiration date occurs during the period of Work.
- .5 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .6 Submit copies of incident reports.
- .7 Submit WHMIS MSDS - Material Safety Data Sheets.

1.3 COMPLIANCE  
REQUIREMENTS

- .1 Comply with Occupational Health and Safety Act for Province of Nova Scotia, and Regulations made pursuant to the Act.
- .2 Comply with Occupational Health and Safety Act for Province of New Brunswick, and General Regulations made pursuant to the Act.
- .3 Comply with Occupational Health and Safety Act for Province of Prince Edward Island, and Occupational Health and Safety Regulations made pursuant to the Act.
- .4 Comply with Occupational Health and Safety Act for Province of Newfoundland and Labrador, and Occupational Health & Safety Regulations made pursuant to the Act.
- .5 Comply with Canada Labour Code - Part II (entitled Occupational Health and Safety) and the Canada Occupational Health and Safety Regulations (COSH) as well as any other regulations made pursuant to the Act.
  - .1 The Canada Labour Code can be viewed at:  
[www.http://laws.justice.gc.ca/en/L-2/](http://laws.justice.gc.ca/en/L-2/)

1.3 COMPLIANCE  
REQUIREMENTS  
(Cont'd)

- .5 (Cont'd)
  - .2 COSH can be viewed at:  
[www.http://laws.justice.gc.ca/eng/SOR-86-304/neh.html](http://www.http://laws.justice.gc.ca/eng/SOR-86-304/neh.html)
  - .3 A copy may be obtained at: Canadian Government Publishing Public Works & Government Services Canada Ottawa, Ontario, K1A 0S9 Tel: (819) 956-4800 (1-800-635-7943) Publication No. L31-85/2000 E or F)
- .6 Observe construction safety measures of:
  - .1 Part 8 of National Building Code
  - .2 Municipal by-laws and ordinances.
- .7 In case of conflict or discrepancy between above specified requirements, the more stringent shall apply.
- .8 Maintain Workers Compensation Coverage in good standing for duration of Contract. Provide proof of clearance through submission of Letter in Good Standing.
- .9 Medical Surveillance: Where prescribed by legislation or regulation, obtain and maintain worker medical surveillance documentation.

1.4 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons and environment adjacent to the site to extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by all workers, sub-contractors and other persons granted access to Work Site with safety requirements of Contract Documents, applicable federal, provincial, and local by-laws, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.5 SITE CONTROL  
AND ACCESS

- .1 Control the Work and entry points to Work Site. Approve and grant access only to workers and authorized persons. Immediately stop and remove non-authorized persons.
  - .1 Departmental Representative will provide names of those persons authorized by Departmental Representative to enter onto Work

1.5 SITE CONTROL  
AND ACCESS  
(Cont'd)

- .1 (Cont'd)
  - .1 (Cont'd)  
Site and will ensure that such authorized persons have the required knowledge and training on Health and Safety pertinent to their reason for being at the site, however, Contractor remains responsible for the health and safety of authorized persons while at the Work Site.
  - .2 Provide safety orientation session to persons granted access to Work Site. Advise of hazards and safety rules to be observed while on site.
  - .3 Ensure persons granted site access wear appropriate PPE. Supply PPE to inspection authorities who require access to conduct tests or perform inspections.
  - .4 Secure Work Site against entry when inactive or unoccupied and to protect persons against harm. Provide security guard where adequate protection cannot be achieved by other means.

1.6 PROTECTION

- .1 Give precedence to safety and health of persons and protection of environment over cost and schedule considerations for Work.
- .2 Should unforeseen or peculiar safety related hazard or condition become evident during performance of Work, immediately take measures to rectify situation and prevent damage or harm. Advise Departmental Representative verbally and in writing.

1.7 PERMITS

- .1 Post permits, licenses and compliance certificates, specified in section 01 10 10, at Work Site.
- .2 Where a particular permit or compliance certificate cannot be obtained, notify Departmental Representative in writing and obtain approval to proceed before carrying out applicable portion of work.

1.8 HAZARD  
ASSESSMENTS

- .1 Perform site specific health and safety hazard assessment of the Work and its site.
- .2 Carryout initial assessment prior to commencement of Work with further assessments as needed during progress of work, including when new trades and subcontractors arrive on site.
- .3 Record results and address in Health and Safety Plan.
- .4 Keep documentation on site for entire duration of the Work.

1.9 PROJECT/SITE  
CONDITIONS

- .1 Following are potential health, environmental and safety hazards at the site for which Work may involve contact with:
  - .1 Working in close proximity of water.
  - .2 Use of water crafts and floating platforms.
  - .3 Wet and slippery conditions.
  - .4 Weather conditions and exposure risk.
  - .5 Potential structural weakness of existing structures.
  - .6 Heavy equipment activity in the area.
  - .7 Heavy lifting.
  - .8 Working at heights.
  - .9 Cutting tools and other construction power tools.
  - .10 Overhead power/utility lines.
  - .11 Risk of electric shock.
  - .12 Vehicular and pedestrian traffic.
  - .13 Confined spaces.
  - .14 Working in poor lighting conditions.
- .2 Above items shall not be construed as being complete and inclusive of potential health and safety hazards encountered during Work.
- .3 Include above items in the hazard assessment of the Work.
- .4 MSDS Data sheets of pertinent hazardous and controlled products stored on site can be obtained from Departmental Representative.

1.10 MEETINGS

- .1 Attend pre-construction health and safety meeting, convened and chaired by Departmental Representative, prior to commencement of Work, at time, date and location determined by Departmental Representative. Ensure attendance of:
  - .1 Superintendent of Work
  - .2 Designated Health & Safety Site Representative
  - .3 Appropriate workers.
  - .4 Departmental Representative.
- .2 Conduct regularly scheduled tool box and safety meetings during the Work in conformance with Occupational Health and Safety regulations.
- .3 Keep documents on site.

1.11 HEALTH AND SAFETY PLAN

- .1 Prior to commencement of Work, develop written Health and Safety Plan specific to the Work. Implement, maintain, and enforce Plan for entire duration of Work and until final demobilization from site.
- .2 Health and Safety Plan shall include the following components:
  - .1 List of health risks and safety hazards identified by hazard assessment.
  - .2 Control measures used to mitigate risks and hazards identified.
  - .3 On-site Contingency and Emergency Response Plan as specified below.
  - .4 On-site Communication Plan as specified below.
  - .5 Name of Contractor's designated Health & Safety Site Representative and information showing proof of his/her competence and reporting relationship in Contractor's company.
  - .6 Names, competence and reporting relationship of other supervisory personnel used in the Work for occupational health and safety purposes.
- .3 On-site Contingency and Emergency Response Plan shall include:
  - .1 Operational procedures, evacuation measures and communication process to be implemented in the event of an emergency.

1.11 HEALTH AND  
SAFETY PLAN  
(Cont'd)

- .3 (Cont'd)
  - .2 Evacuation Plan: site and floor plan layouts showing escape routes, marshalling areas. Details on alarm notification methods, fire drills, location of fire fighting equipment and other related data.
  - .3 Name, duties and responsibilities of persons designated as Emergency Warden(s) and deputies.
  - .4 Emergency Contacts: name and telephone number of officials from:
    - .1 General Contractor and subcontractors.
    - .2 Pertinent Federal and Provincial Departments and Authorities having jurisdiction.
    - .3 Local emergency resource organizations.
  - .5 Harmonize Plan with Facility's Emergency Response and Evacuation Plan. Departmental Representative will provide pertinent data including name of PWGSC and Facility Management contacts.
- .4 On-site Communication Plan:
  - .1 Procedures for sharing of work related safety information to workers and subcontractors, including emergency and evacuation measures.
  - .2 List of critical work activities to be communicated with Facility Manager which have a risk of endangering health and safety of Facility users.
- .5 Address all activities of the Work.
- .6 Review Health and Safety Plan regularly during the Work. Update as conditions warrant to address emerging risks and hazards.
- .7 Departmental Representative will respond in writing, where deficiencies or concerns are noted and may request re-submission of the Plan with correction of deficiencies or concerns.
- .8 Maintain a copy of the Plan, and updates, prominently on Work Site.

1.12 SAFETY  
SUPERVISION

- .1 Employ Health & Safety Site Representative responsible for daily supervision of health and safety of the Work.
- .2 Health & Safety Site Representative may be the Superintendent of the Work or other person designated by Contractor and shall be assigned the responsibility and authority to:
  - .1 Implement, monitor and enforce daily compliance with health and safety requirements of the Work
  - .2 Monitor and enforce Contractor's site-specific Health and Safety Plan.
  - .3 Conduct site safety orientation session to persons granted access to Work Site.
  - .4 Ensure that persons allowed site access are knowledgeable and trained in health and safety pertinent to their activities at the site or are escorted by a competent person while on the Work Site.
  - .5 Stop the Work as deemed necessary for reasons of health and safety.
- .3 Health & Safety Site Representative must:
  - .1 Be qualified and competent person in occupational health and safety.
  - .2 Have site-related working experience specific to activities of the Work.
  - .3 Be on Work Site at all times during execution of the Work.
- .4 All supervisory personnel assigned to the Work shall also be competent persons.
- .5 Inspections:
  - .1 Conduct regularly scheduled safety inspections of the Work on a minimum bi-weekly basis. Record deficiencies and remedial action taken.
  - .2 Conduct Formal Inspections on a minimum monthly basis. Use standardized safety inspection forms. Distribute to subcontractors.
  - .3 Follow-up and ensure corrective measures are taken.
- .6 Keep inspection reports and supervision related documentation on site.

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- 1.13 TRAINING
- .1 Use only skilled workers on Work Site who are effectively trained in occupational health and safety procedures and practices pertinent to their assigned task.
  - .2 Maintain employee records and evidence of training received. Make data available to Departmental Representative upon request.
  - .3 When unforeseen or peculiar safety-related hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing.
- 1.14 MINIMUM SITE SAFETY RULES
- .1 Notwithstanding requirement to abide by federal and provincial health and safety regulations; ensure the following minimum safety rules are obeyed by persons granted access to Work Site:
    - .1 Wear appropriate PPE pertinent to the Work or assigned task; minimum being hard hat, safety footwear, safety glasses and hearing protection.
    - .2 Immediately report unsafe condition at site, near-miss accident, injury and damage.
    - .3 Maintain site and storage areas in a tidy condition free of hazards causing injury.
    - .4 Obey warning signs and safety tags.
  - .2 Brief persons of disciplinary protocols to be taken for non compliance. Post rules on site.
- 1.15 CORRECTION OF NON-COMPLIANCE
- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
  - .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
  - .3 Departmental Representative will stop Work if non-compliance of health and safety
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- 1.15 CORRECTION OF NON-COMPLIANCE (Cont'd) .3 (Cont'd)  
regulations is not corrected in a timely manner.
- 1.16 INCIDENT REPORTING .1 Investigate and report the following incidents to Departmental Representative:  
.1 Incidents requiring notification to Provincial Department of Occupational Safety and Health, Workers Compensation Board or to other regulatory Agency.  
.2 Medical aid injuries.  
.3 Property damage in excess of \$10,000.00,  
.4 Interruptions to Facility operations resulting in an operational lost to a Federal department in excess of \$5000.00.  
.2 Submit report in writing.
- 1.17 HAZARDOUS PRODUCTS .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS).  
.2 Keep MSDS data sheets for all products delivered to site.  
.1 Post on site.  
.2 Submit copy to Departmental Representative.  
.3 For interior work in an occupied Facility, post additional copy in one or more publically accessible locations.
- 1.18 BLASTING .1 Blasting or other use of explosives is not permitted on site without prior receipt of written permission and instructions from Departmental Representative.
- 1.19 CONFINED SPACES .1 Abide by occupational health and safety regulations regarding work in confined spaces.  
.2 Obtain an Entry Permit in accordance with Part XI of the Canada Occupational Health and Safety Regulations for entry into an existing

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- 1.19 CONFINED SPACES  
(Cont'd)
- .2 (Cont'd)  
identified confined space located at the Facility or premises of Work.
    - .1 Obtain permit from Facility Manager
    - .2 Keep copy of permit issued.
  - .3 Safety for Inspectors:
    - .1 Provide PPE and training to Departmental Representative and other persons who require entry into confined space to perform inspections.
    - .2 Be responsible for efficacy of equipment and safety of persons during their entry and occupancy in the confined space.
- 1.20 SITE RECORDS
- .1 Maintain on Work Site copy of safety related documentation and reports stipulated to be produced in compliance with Acts and Regulations of authorities having jurisdiction and of those documents specified herein.
  - .2 Upon request, make available to Departmental Representative or authorized Safety Officer for inspection.
- 1.21 NOTIFICATION OF DOCUMENTS
- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on Work Site in accordance with Acts and Regulations of Province having jurisdiction.
  - .2 Post other documents as specified herein, including:
    - .1 Site specific Health and Safety Plan
    - .2 WHMIS data sheets
- 1.22 DIVING OPERATIONS
- .1 All diving work to comply fully with the requirements of CSA Z275.2-04, "Occupational Safety Code for Diving Operations", CSA Z275.4-02, "Competency Standards for Diving Operations" and CSA Z180.1-00, "Compressed Breathing Air and Systems." The contractor is also required to comply with Divisions I and II for Type 2 Dives as defined in Part XVIII of the Canada Labour Code for Diving Operations.
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1.22 DIVING  
OPERATIONS  
(Cont'd)

- .2 Dive personnel must meet the minimum competency requirements of the CSA Z275.4-02 (R2008) and all divers must possess an Unrestricted Surface-Supplied Certificate or a valid Category 1 Diving Certificate. Submit copy to Departmental Representative prior to starting work of each callup and OHS/Consultants will be doing spot check to see if firms are in compliance with all Health and safety.
- .3 Diving in free-swim mode is not permitted at the work site.
- .4 Divers must have a current (less than one year) validated medical examination certificate(s) from a licensed Diving Physician in Newfoundland and Labrador who is knowledgeable and competent in diving and hyperbaric medicine, for all dives.

1.23 MEASUREMENT  
FOR PAYMENT

- .1 No measurement for payment shall be made for items under this section. All costs associated with this specification section will be considered incidental to the standing offer.

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- 1.1 DEFINITIONS .1 Hazardous Material: Product, substance, or organism that is used for its original purpose; and that is either dangerous goods or a material that may cause adverse impact to the environment or adversely affect health of persons, animals, or plant life when released into the environment.
- 1.2 FIRES .1 Fires and burning of rubbish on site not permitted.
- 1.3 DISPOSAL OF WASTES AND HAZARDOUS MATERIALS
- .1 Do not bury rubbish and waste materials on site. Dispose at approved landfill sites as specified.
- .2 Do not dispose of hazardous waste or volatile materials, such as mineral spirits, paints, thinners, oil or fuel into waterways, storm or sanitary sewers or waste landfill sites.
- .3 Store, handle and dispose of hazardous materials and hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.
- .4 Dispose of construction waste materials and demolition debris, resulting from work, at approved landfill sites only. Carryout such disposal in strict accordance with provincial and municipal rules and regulations. Separate out and prevent improper disposal of items banned from landfills.
- .5 Establish methods and undertake construction practices which will minimize waste and optimize use of construction materials. Separate at source all construction waste materials, demolition debris and product packaging and delivery containers into various waste categories in order to maximize recycling abilities of various materials and avoid disposal of debris at landfill site(s) in a "mixed state". Where recycling firms, specializing in recycling of specific materials exist, transport such materials to the recycling facility and avoid disposal at landfill sites.
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- 1.3 DISPOSAL OF WASTES AND HAZARDOUS MATERIALS  
(Cont'd)
- .6 Communicate with landfill operator prior to commencement of work, to determine what specific construction, demolition and renovation waste materials have been banned from disposal at the landfill and at transfer stations.
- 1.4 DRAINAGE
- .1 Provide temporary drainage and pumping as necessary to keep excavations and site free from water.
- .2 Do not pump water containing suspended materials into waterways, sewer or drainage systems.
- .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with governing regulations and requirements.
- .4 Pumped water must meet applicable federal, provincial, and municipal standards before it can be discharged to a surface water body. If regulatory guidelines exceedences are noted, the Departmental Representative has the right to issue stop pumping instructions to the Contractor. Contractor will not be compensated for any delays associated with retrofitting equipment to meet guidelines.
- .5 Provide control devices such as filter fabrics, sediment traps and settling ponds to control drainage and prevent erosion of adjacent lands. Maintain in good order for duration of work.
- 1.5 PERMITS
- .1 All guidelines and instructions stated on permits must be strictly adhered to.
- 1.6 WORK ADJACENT TO WATERWAYS
- .1 Do not operate construction equipment in waterways.
- .2 Do not use waterway beds for borrow material.
- .3 Do not dump excavated fill, waste material or debris in waterways.
-

1.6 WORK ADJACENT  
TO WATERWAYS  
(Cont'd)

- .4 At borrow sites, design and construct temporary crossings to minimize erosion to waterways in strict conformance with provincial and federal environmental regulations.
- .5 Do not skid logs or construction materials across waterways.
- .6 Avoid indicated spawning beds when constructing temporary crossings of waterways.
- .7 Do not blast under water or within 100 m of spawning beds.
- .8 Do not refuel any type of equipment within 100 m of a water body. Maintain equipment in good working condition with no fluid leaks, loose hoses or fittings.

1.7 POLLUTION  
CONTROL

- .1 Maintain temporary erosion and pollution control features installed under this contract.
- .2 Control emissions from equipment and plant to local authorities emission requirements.
- .3 Prevent sandblasting and other extraneous materials from contaminating air beyond application area, by providing temporary enclosures.
- .4 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads and around entire construction site.
- .5 Maintain inventory of hazardous materials and hazardous waste stored on site. List items by product name, quantity and date when storage began.
- .6 Have emergency spill response equipment and rapid clean-up kit, appropriate to work, at site. Locate adjacent to work and where hazardous materials are stored. Provide personal protective equipment as required for clean-up.



PART 1 - GENERAL

- 1.1 RELATED SECTIONS .1 Section 01 35 29 - Health and Safety Requirements
- 1.2 DESCRIPTION .1 This section specifies requirements for the dredging of Class "B" material to the grades and dimensions as indicated by the Departmental Representative.
- 1.3 MEASUREMENT PROCEDURES .1 Mobilization and Demobilization: will be paid by the kilometer for the one-way distance from base of operations for each individual region to the dredge site, from the dredge site to the next dredge site, or from the dredge site back to the base of operations if greater than 100km in addition to the fixed amount, anything less than 100km will be charged a cost of \$750 as applicable, for one (1) hydraulic backhoe/excavator (size doesn't matter) as required by the Departmental Representative. Payment to include all labour and materials.
- .2 Mobilization and Demobilization of dump trucks to and from the dredge site will be pay by the hour as described in Clause 1.3.4.2.
- .3 Base of operations for this standing offer will be Gander, NL.
- .4 Dredging:  
.1 Payment for the hydraulic backhoe will be at hourly operating rate for actual time worked in the dredging operations. Hourly operating rates will include operator, all petroleum products, all equipment necessary in operating hydraulic backhoe and maintenance repairs. Contractor working in areas where (tides only) have a big impact on dredging, will be paid the same hourly rate as for operating.  
.2 Payment for trucks will be at hourly operating rate for actual time worked, which includes travel from home base to site, dredging operations (idle time won't be paid),

1.3 MEASUREMENT  
PROCEDURES  
(Cont'd)

- .4 Dredging: (Cont'd)  
.2 (Cont'd)  
travel to additional site or back to home base. Hourly operating rates will include operator, all petroleum products, all equipment necessary in operating trucks, maintenance repairs and all associate costs. Contractor working in areas where (tides only) have a big impact on dredging, will be paid the same hourly rate as for operating.  
.3 Payment for dredging will be by the cubic meter truck measure (cmtm) but will be subject to Clause 1.3.6 and Clause 1.3.7 for payment.
- .5 No payment will be made for downtime due to mechanical problems, maintenance of equipment, breaks and meal hours or for otherwise idle equipment unless authorized by the Departmental Representative.
- .6 There will be no payment for standby time with any equipment unless the Contractor is unable to dredge due to conditions beyond the Contractor's control at the dredge site (tidal conditions). Contractor is to advise the Departmental Representative when this occurs or the hours will be deducted. Any downtime beyond the contractors control will be added to the operating hours of the hydraulic backhoe and dump trucks.
- .7 The contractor and Departmental Representative's on-site representative may sign a statement provided by the Departmental Representative at the end of each day, outlining the number of operating hours and downtime hours for each piece of equipment involved in the dredging operation and the number of (cmtm) of dredged material trucked to the approved landfill.
- .8 PWGSC will be periodically conducting "after dredging" hydrographic surveys to verify grade depths, dredged limits and quantities of dredged material removed although the contractor will still be paid for hours work. Only if PWGSC's survey demonstrate significant errors in control during dredging operations may hours be adjusted.

1.3 MEASUREMENT  
PROCEDURES  
(Cont'd)

- .9 A separate payment will made for disposal of contaminated dredge material to a confined disposal facility or appropriate contaminated soil disposal facility, as approved by the Departmental Representative.
- .10 There will be no additional payment for downtime and for delays caused by vessel traffic.
- .11 No payment will be made for the call-up if the Contractor has to stop operations because of the failure to comply with any of the dredging procedures, permits and operations.
- .12 All material dredged will be considered Class "B" for payment purposes, including and boulders.
- .13 Note: All dumping fees will be paid to the Contractor at cost upon submission of receipt of payment from the municipal authority.
- .14 Travel/Expenses - will be paid as per Federal Government Travel Regulations with details of expense claims to be broken down daily, showing departure from home base and arrival times at site, meals, incidental and accommodations on the invoices.
- .15 Miscellaneous Equipment Rental Allowance: The rental of miscellaneous equipment or tools (not identify in the unit price table) owned by others will be paid at the fair industry rate according to the actual invoiced cost, including appropriate taxes, as pre-approved by the Departmental Representative. All costs will be supported by adequate documentation. There will be an Overhead and Profit Allowance for this equipment. When bidding this unit the Contractor's overhead and profit factor will be entered in the space provided on the Unit Price Table. This factor will then be multiplied by the Miscellaneous Material Allowance principal of \$30,000.00 to determine the total Miscellaneous Equipment Rental Allowance Cost. The Contractor must make every effort to obtain the best price available for any specified equipment. All quotes and/or costs must pre-approved by the Departmental Representative. All costs must be supported by adequate documentation.

1.4 DEFINITIONS

- .1 Dredging: excavating, transporting and disposing of underwater materials.
- .2 Class "A" material: solid rock requiring drilling and blasting or busting to loosen, and boulders or rock fragments of individual volumes 1.5 m<sup>3</sup> or more.
- .3 Class "B" material: loose or shale rock, silt, sand, quick sand, mud, shingle, gravel, clay, sand, gumbo, boulders, hardpan and debris of individual volumes less than 1.5 m<sup>3</sup>.
- .4 Obstructions: material other than Class "A", having individual volumes of 1.5 m<sup>3</sup> or "deteriorated concrete or wooden wharves".
- .5 CMPM: cubic meters place measure. SQM: area in square metres projected horizontal. CMTM: cubic meters truck measure, to a maximum of 8 cubic metres per truck.
- .6 Debris: pieces of wood, wire rope, scrap steel, pieces of concrete and other waste materials.
- .7 Grade: plane above which material is to be dredged.
- .8 Sub-grade: plane parallel to and 300 mm below grade.
- .9 Estimated quantity:
  - .1 Volume of material calculated to be above sub-grade and within specified side slopes unless otherwise specified.
  - .2 Areas in square metres of material calculated horizontally to exist above grade and within dredge limits, unless otherwise specified.
- .10 Side slope: inclined surface or plane from subgrade at side limit of dredging area to intersect original ground line outside of side limit and to be expressed as ratio of horizontal to vertical.
- .11 Chart Datum: permanently established plane from which soundings or tide heights are referenced, usually Lowest Normal Tide (L.N.T.).

1.4 DEFINITIONS  
(Cont'd)

- .12 Coordinates:
  - .1 U.T.M.: universal transverse mercator projection.
  - .2 M.T.M.: modified transverse mercator projection.
  - .3 U.T.M. or M.T.M. Coordinates: plane rectangular coordinates used in grid system in which grid network is applied to U.T.M. or M.T.M. projection. Horizontal control information as indicated.
- .13 Minimum Mode: mode of operation of hydrographic survey equipment where minimum sounding over length of travel between position updates will be retained in memory. Soundings taken in this mode may be shallower than actual bottom elevations due to variations in water depths due to wave action.
- .14 Matrix Block: each dredge area is presented as number of 1.2 x 3.0 m long blocks. Dependent on position of sounding, block may have 0 to 4 soundings contained within it.
- .15 Least of Minimum Plan: hydrographic survey plan in which least sounding in grouping of matrix blocks is plotted.
- .16 Instanteous Mode: mode of operation of hydrographic survey equipment where only sounding observed at predetermined distance interval is retained in memory.
- .17 Average of Instanteous Plan: hydrographic survey plan in which average sounding in appropriate grouping of matrix blocks is plotted.
- .18 Lowest Normal Tide (L.N.T.): plane so low that tide will seldom fall below it.
- .19 Cleared Area: area of dredging accepted as complying with the Call-up.

1.5 REGULATORY  
REQUIREMENTS

- .1 Comply with municipal, provincial and national codes and regulations relating to call-up.

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- 1.5 REGULATORY REQUIREMENTS (Cont'd)
- .2 All operations in connection with field positioning of dredging equipment will not be measured separately for payment.
  - .3 Mark floating equipment in accordance with the provisions of the Canada Shipping Act Collision Regulations.
- 1.6 WASTE MANAGEMENT AND DISPOSAL
- .1 Perform work, in accordance with municipal, provincial and or national codes and regulations, including the provisions of the Ocean Dumping Control Act Permit issued for the call-up. In any case of conflict or discrepancy, the more stringent requirements will apply.
  - .2 Metals, wood and recyclable materials removed during the dredging activities must be diverted appropriate recycling facilities.
- 1.7 SCHEDULING
- .1 Upon completion of the dredging at project site, should another location be identified for dredging, mobilization will be paid from site to site. However, should there be a lapse between jobs, mobilization and demobilization will be paid by the kilometer from job location to home base, as described in Clause 1.3.3. Contractor is to advise the Departmental Representative at least 24 hours in advance of completing the dredging call-up, so the Departmental Representative can identify additional sites if required.
- 1.8 LOCATION
- .1 Work comprises dredging of areas as indicated on the call-ups provided by the Departmental Representative.
- 1.9 INTERFERENCE TO NAVIGATION
- .1 Be familiar with vessel movements and fishery activities in area affected by dredging operations. Plan and execute Work in manner that will not interfere with fishing operations, marine operations, construction activities at wharf sites, or access to wharves by land or water.
-

1.9 INTERFERENCE  
TO NAVIGATION  
(Cont'd)

- .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, of Fisheries and Oceans Canada, informed of dredging operations in order that necessary Notices to Shipping/Mariners will be issued.

1.10 DATUM, WATER  
GAUGES AND TARGETS

- .1 Areas to be dredged are to be referenced to vertical bench marks, for each location of dredging, as indicated by the Departmental Representative.

1.11 SITE  
INFORMATION

- .1 Results of prior soundings, and geotechnical investigations are available for inspection from the Departmental Representative.
- .2 Results of prior soundings and geotechnical investigations are made available for viewing purposes only. It should be noted that this information may differ from actual site conditions.
- .3 Take necessary steps to become fully familiar with potential inclement weather and sea conditions at each call-up site.

1.12 SURVEY  
REQUIREMENTS

- .1 Contractor to take necessary steps to make sure proper dredged grades are met.

PART 2 - PRODUCTS

2.1 DREDGING  
EQUIPMENT

- .1 Equipment required to carry out dredging on this project will consist of the following:
- .1 A hydraulic backhoe/excavator with a minimum of a 16.0 m horizontal reach, minimum of a 1.0 cubic meter bucket, and a minimum mass of 25 tonne.
  - .2 A hydraulic backhoe/excavator with a minimum of a 8.0 m horizontal reach, minimum of a 1.5 cubic meter bucket, and a minimum mass of 25 tonne.
  - .3 Sufficient on-highway dump trucks to truck a minimum of 8m<sup>3</sup> of material, complete with water tight boxes, to provide continuous operation as determined by the Departmental Representative. Truck boxes to be watertight and tailgates to be double secured with chain. No dredging operations will be carried out if trucks are leaking water or material during dredging operations.
  - .4 Contractor should have sufficient equipment available to carry out dredging at two (2) locations simultaneously, if required.
  - .5 Contractor to prove to the department that he/she owns the above equipment or has access to the above listed equipment prior to award of the Standing Offer. The contractor is at no time to bring extra or unauthorized equipment to the dredge site without the written approval of the Departmental Representative.

PART 3 - EXECUTION

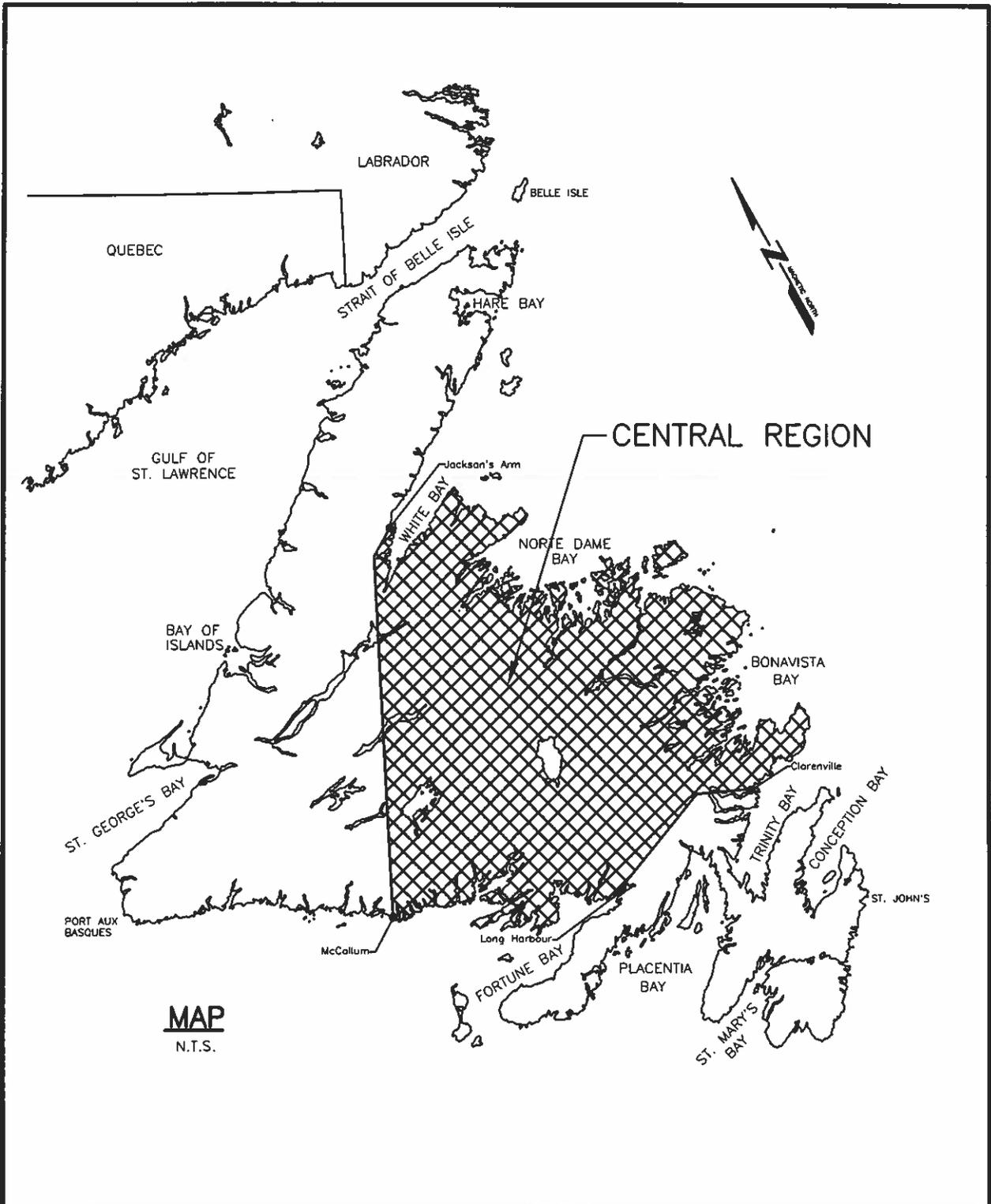
3.1 GENERAL

- .1 Mark floating equipment in accordance with the Canada Shipping Act Collision Regulations and maintain radio watch on board.
- .2 Place and maintain buoys, ranges, markers and lights required to define work and disposal areas.
- .3 Lay out Work from bench marks, ranges and base lines established by Departmental Representative. Be responsible for accuracy of Work relative to established bench

3.1 GENERAL  
(Cont'd)

- .3 (Cont'd)  
marks, ranges 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 tide boards in order that proper depth of dredging can be determined. Locate 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 Work.
- .6 Dredge area and grade depth to the limits indicated on each Call-up provided by the Departmental Representative.
- .7 Dredge side slopes to limits as indicated on the Call-up provided by the Departmental Representative.
- .8 Remove materials above specified grade depths, within limits indicated. Material removed from below subgrade depth or outside specified area or side slope is not part of Work and will not be measured for payment.
- .9 Remove shoaling which occurs as result of work at no expense to Departmental Representative.
- .10 Remove material cast-over on 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 objects which might be classified as an obstruction. By-pass object after clearly marking its location and continue Work.

- 
- 3.1 GENERAL  
(Cont'd)
- .13 No dredging will be permitted from the existing wharf unless it is adequately protected from equipment track damage to the satisfaction of the Departmental Representative.
- 3.2 DISPOSAL OF DREDGED MATERIAL
- .1 Dispose of dredged material by depositing in disposal areas indicated in manner approved by Departmental Representative.
- .2 Define area of disposal site with markers.
- 3.3 RE-DREDGING
- .1 Re-dredge unsatisfactory Work and verify depths with additional sounding or sweeping to approval of Departmental Representative.
- 3.4 SWEEPING
- .1 Sweep dredged areas on completion of dredging to confirm that grade depth has been achieved.
- 3.5 DREDGING IN VICINITY OF STRUCTURES
- .1 Do not dredge material from areas lying within 1.5 m of existing structure unless authorized by Departmental Representative.



**MAP**  
N.T.S.

 **Public Works and  
Government Services  
Canada**

**Travaux publics et  
Services gouvernementaux  
Canada**

designed by: PWGSC      date:  
conçu par: PWGSC

drawn by: EB  
dessiné par: EB

**MINOR DREDGING  
CENTRAL REGION,  
NL**

Drawing title:      Titre du dessin:  
**SITE PLAN**

approved by:  
approuvé par:

project no.:      no. du projet:

scale:  
échelle:

date:  
JUNE 2013

revisions:      dwg no.:      dessin no.:

**1 OF 1**

Plot Scale: