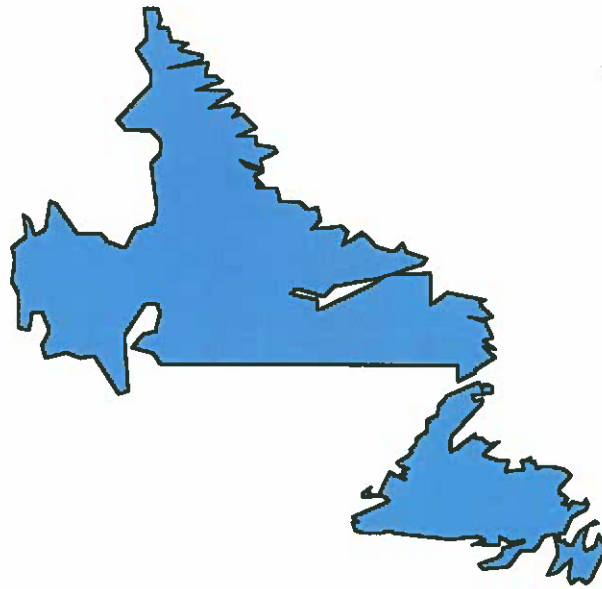


**PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
REAL PROPERTY CONTRACTING
NL DIVISION**

SPECIFICATION

**Regional Individual Standing Offer for
Diving Inspections
Various Locations – Western NL
SOLICITATION #: EA003-161184/A**



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PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
SPECIFICATION FOR
DIVING
WESTERN, NL

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1.1 General

- .1 Public Works and Government Services Canada (PWGSC) requires the services of a diving firm to perform diving inspections and minor repairs on marine structures and facilities at various locations in Newfoundland and Labrador. It is the Department's intention to accept tenders for this service and establish a Standing Offer for such work as indicated on attached Drawing No. 1 of 1, for the following regions:
 - .1 Western Region: West of McCallum and West of Jackson's Arm on the Island, Then from L'anse au Clair to Cartwright in Labrador. In strict accordance with the 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 FIELD WORK

- .1 The visual inspection and written report, complete with colour photographs and detailed drawing(s), of various marine structures and facilities such as wharves, floating docks, breakwaters, steel sheet piling, slipways, dredged areas, etc., to determine any physical damage or deterioration to structures or structural components.
- .2 Various diving services will involve, but not necessarily be limited to, the following activities above and below low water level:
 - .1 Examination of structure to determine condition of structure which should include inspection of the following: The deterioration of structure (concrete/wood/steel), damage to structure, spillage/missing ballast, settlement of structure, undermining/scouring of structure; bottom crib conditions, corrosion of steel structures, dimensions of structures and their components;
 - .2 Examination of various types of bolted and/or welded connections for corrosion, deterioration or damage;
 - .3 Examination of structural components specified by PWGSC such as fendering systems

1.2 FIELD WORK
(Cont'd)

.2

(Cont'd)

.3 (Cont'd)

and bracing, for deterioration and damage; regions specified in clause 1.1.1, as required, and directed by the Departmental Representative, remove/replace bracing that is missing;

.4 Reporting on damages caused by ship accidents;

.5 Examining dredge areas including soundings for high spots, debris and boulders in connection with PWGSC dredging contracts or for navigational purposes, removal of boulders by lift bags;

.6 Carry out underwater probes of harbour bottoms and indicate type of bottom as soft, hard, gravel, sand, bedrock or boulders, characterization of sediment i.e. color and type of material, underwater video and photo, etc., and provide drawings of probe locations;

.7 Procurement of dredge spoil samples for chemical analysis;

.8 Underwater location of waterlines, services and man-made debris;

.9 Acquisition of timber core samples;

.10 Underwater inspections of various marine projects undertaken by General Contractors on PWGSC's behalf to ensure compliance with plans and specifications;

.11 Report verbally to PWGSC immediately upon observing any deterioration or damage to a structure which could, in contractor's opinion, affect the integrity of a structure;

.12 Inspect, remove/replace and install new chains, remove/replace new and old concrete blocks with proper lift bags, removal all old chain used for floating docks not use, estimate % of chain remaining, anchors, new shackles, install/move floating docks into location as directed by scope of work and drawing provided (divers to provide equipment for moving), if field conditions require change to scope of work, an approval is required from the departmental representative.

.13 The Supply and transportation of minimum of Grade 43 galvanized chain - WLL X 9200lbs@4:1 DF and such as "Van Beese" or "Crosby" or equivalent galvanized shackles Bolt/Nut/Cotter Pin to each site as required. Chain and Shackle must be certified. Contractor will stock at least 2 barrels of

1.2 FIELD WORK
(Cont'd)

- .2 (Cont'd)
 - .13 (Cont'd)
chain at his office at all times for emergency calls for repairs.
- .3 The Contractor will be required to submit schedule and estimate within 24hrs of the request. Failure to submit, Departmental Representative may rescind the project. Mobilize to the call-up site within 48hrs of notification from the Departmental Representative, call-up paper will follow within in another 48hrs except in cases of emergency or operational requirements. Failure to mobilize to call-up site within an additional 24 hours notice, the Departmental Representative will rescind the call-up.
- .4 All diving work to comply with Health and Safety Section 01 35 29. Diving Contractors who are found in non-compliance of these regulations will be disqualified. Contractors must comply with these Safety Requirements and must provide proof of qualifications and equipment. Random checks of diving firm will be performed by OHS and PWGSC. Firm will submit to this office along with quote to perform work or inspection a site specific safety plan, a letter of clearance from WHSSC, proof of insurance.
- .5 PWGSC will make available any existing drawings or site information, if available, as requested by the diving contractor.
- .6 A cost estimate and schedule for diving services shall be submitted before inspection is authorized. The cost of the inspection, when authorized, shall not exceed the estimate by more than 20% without prior approval of the Department. All costs to be invoiced as per the terms of the contract, i.e., broken down into number of travel hours, work hours, expenses, time when left home base, time when arrived on site, time when left site each day, etc.
- .7 The number of Diving hours for diving services or inspection(s) will commence once you start work at the job site and ends once work is completed. Time spent for nutritional

1.2 FIELD WORK
(Cont'd)

- .7 (Cont'd)
breaks will be deducted (mandatory 30min for lunch and supper every day will be deducted each day) from the above as per government travel rates, breakfast will be not paid unless divers stay out overnight and work the following day, lunch if leave before 11:45 or after 12:30 if you arrive back to home base, and dinner if you arrive back to home base after 6:30pm. Contractor is responsible to get Harbour Authority and/or Departmental Representative to sign off. Also contractor is to notify PWGSC when the original scope of work is completed before leaving site by either a phone call, text or email will be accepted.
- .8 The number of travel hours will be measure from the time it takes to travel from the home base to the community of the work and from community to community and back to home base driving the normal speed limit. Contractor is to notify the department 1 hour prior to leaving for any site to ensure work is still going as plan. Time spent for nutritional breaks will the same as outline in section 1.2.7. These hours will be base on the time given on the provincial governemnt web site (<http://www.stats.gov.nl.ca/datatools/roaddb/distance/>)
- .9 The contractor shall be solely responsible to provide equipment to travel to the site, complete the required work at the site and travel back to the home base.
- .10 The contractor shall be solely responsible to determine wind and sea conditions at the site prior to proceeding to site. One option is to contact Harbour Authority asking for conditions at site but it still will be contractors responsibility to verify conditions on site. PWGSC will only pay for travel to site if weather conditions changed prior to contractor arriving to site. Contractor must notify Department prior to leaving for site by a phone call, text or email will be accepted and only this will confirm start time of the callup, there are no exceptions. Time will start only after PWGSC

1.2 FIELD WORK
(Cont'd)

- .10 (Cont'd)
is notified. There is no payment for standby in this contract.
- .11 While it is impossible to establish the exact number of hours that may be required, tenders would be based on the estimated quantities shown in the Standing Offer. Contractor must submit schedule of work including departure times to Departmental Representative before work will be approve, any changes to original schedule has to be approved prior to start of work. Contractor is to submit prior to going to site emergency plan with all contact number and a potential hazard assessment. Once on site contractor is to do site specific hazard assessment prior to start of work and a dive plan and will be submitted with the report. Contractor is to notify Department once on site, completed work and return to home base or another site by a phone call, text or email.
- .12 No provision for overtime will apply. Hourly rates will include services of divers, job preparation, breakdown, transportation to and from site, diving support vessel and equipment. Tools, (i.e., incremental wood core test equipment, lift bags, equipment for moving blocks, etc) and consumable items, (i.e., coveralls, gloves, etc.), shall also be included in the hourly rate except for specialize equipment which will be paid by a daily rate up on request. If a larger vessel than the support vessel of the contractor is required it will be paid separately. The larger vessel will be only used when doing work, (where the contractor has to setup his dive equipment on vessel). Say anything outside 400ft from the wharf or floating dock.
- .13 Underwater Camera: Contractor shall provide an underwater camera capable of taking underwater still colour prints, digital prints or slides under low light conditions. The camera equipment is to include a flash or strobe, a 50 mm lens, an optional wide angle lens and an optional fish-eye lens. The camera and associated equipment must be capable of operating in depths up to 30 metres.

1.2 FIELD WORK
(Cont'd)

- .14 On occasion the department will do spots checks on the work perform. If anything found different than reported then the department may deduct the cost of the new inspection and work.
- .15 Divers are not to take any directions on doing additional work from the Harbour Authority at no time. Any new work must be pre-approved from PWGSC first or will not be pay.
- .16 Miscellaneous Material Allowance: The supply of miscellaneous materials, ex. (pumped concrete and bags) will be paid at the fair market value according to the actual invoiced cost, including only appropriate taxes as pre-approved by the Departmental Representative. All costs must be supported by adequate documentation. 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 Material Allowance Cost. The Contractor will make every effort to obtain the best price available for any specified material.

1.3 REPORTS

- .1 Three (2) type written original copies, (2) cd copies and 1 pdf of report email to PWGSC of a detailed report shall be submitted to the Department within (3) days of completion of all field work.
- .2 All reports shall include the following information:
 - .1 Date of inspections
 - .2 Climate Conditions - weather, air temperature, wind direction and speed.
 - .3 Water Conditions - wave heights(m), depth at each location(m), temperature (deg C), visibility (m), tide.
 - .4 Names of divers and diver's tender.
 - .5 Name and signature of person(s) completing the report and date signed.
 - .6 Time when contractor left home base, time when arrived on site, time when diver

1.3 REPORTS
(Cont'd)

- .2 (Cont'd)
 - .6 (Cont'd)
enter and left water and time when left site.
All dive logs will be included in report to
verified hours of work.
 - .7 Contact name of Harbour Authority and
the PWGSC Departmental Representative.
- .3 Provide Autocad scaled drawing(s) in report
and CD with reference to pictures of existing
structure(s) with each report detailing all
findings including plan, profile views and
dimensions of damage, scoured or deteriorated
areas. Must provide scaled plotted drawings
and CD files in Autocad 2010 format or greater
to the Departmental Representative. Contractor
must submit a Autocad (.dwg) file with each
report.
- .4 All reports will provide underwater colour
pictures/photographs on glossy paper, clearly
labelled and description of location with
referenced to the autocad scaled drawing.
Pictures must be in color and clear for
viewing detail. The report will be also
submitted on CD in word format, in pdf format
by email and with all the digital pictures
store on the CD and pdf. The number of
original photographs will be determine by the
Departmental Representative and will be
submitted with each report depending upon the
size and scope of individual inspections. The
departmental Representative will provide if
available any existing autocad/topographic
plans for reference to contractor to verify.
- .5 Contractor will be required to provide video
on every project with the report and in the
report a reference autocad drawing to scale,
showing the swim route, identify the structure
(i.e. cribwork length, pile spacing, span
lengths, scour protection, damaged areas,
etc.). All video's will be dubbed and all
findings on video be visible for viewing
before they are submitted to the department.
If video is not clear and viewable of
findings, contractor will be responsible to
correct at his cost. The contractor should
notify department while at the site if visible
conditions aren't good.

1.4 DREDGED SAMPLING.1

In conjunction with PWGSC's procurement of dredging/ocean dumping permits, diving contractor may be required to obtain either grab sample, grab/core sample over 1.2m into the original bottom or core samples of harbour bottom material for chemical analysis at specified harbours.

- .2 Core samples will be collected in 50 mm (minimum) clear plastic core liners. For disturbed samples, after excess water is drained from the sample, it will be deposited into a 250ml mason jar and duplicated. For undisturbed samples, the core liner will be capped on top and bottom and made water tight.
- .3 Grab samples are required to be taken in a 250ml jar and a duplicate sample taken at each location. All excess water is to be drained from the bottle. The remaining information listed here is captured by the Chain of Custody Form. A Chain of Custody Form must be completed for each sampling location, as per the PWGSC sampling protocol. A copy of the completed Chain of Custody Form to be returned to PWGSC and the original must accompany the samples to the lab.
- .4 Each core and/or grab sample shall be clearly identified by a typed label secured to side of container indicating the following:
 - .1 Location of harbour;
 - .2 Date and time collected;
 - .3 Sample number and location;
 - .4 Water depth at each sample location with reference to L.N.T.;
 - .5 Name of diving company and collector.
 - .6 Provide Autocad scaled drawings showing the location of the samples.
- .5 All samples will be carefully packaged to prevent damage and transported by contractor when returning to home base or by courier, prepaid by diving firm, to designated testing laboratory. Courier will be reimbursed by PWGSC at cost and receipt is required. Samples damaged during transportation must be re-taken at the diving contractors cost. Note: An Autocad plan of the harbour area indicating actual sample (DPGS NAD 83 6 deg coordinates) locations in relation to identifiable marine

1.4 DREDGED SAMPLING.5
(Cont'd)

(Cont'd)
structures shall be forwarded with each set of samples with a duplicate copy to PWGSC. This will be stored on the CD with the report.

- .6 In general, PWGSC will identify the type of sample to be taken, the number of samples required, and the location from which the samples should be collected and if requested, GPS coordinates of each sample to be recorded and indicated on a Autocad drawing plan provided by PWGSC or as directed by the Departmental Representative. If a larger vessel is required for diving it will be paid separately (receipt is required with proper tax numbers). The larger vessel will be only used when doing work, (where the contractor has to setup his dive equipment on vessel) not for any other work. The Harbour Authority at times will provide a boat at no cost.
- .7 Diving firm will be required to pay for and maintain their own adequate supply of 250ml bottles, plastic core liners and containers at all times. Submit samples of plastic core liners and containers to Department for prior approval when requested.
- .8 The diving contractor should provide necessary equipment to get samples within the 400ft range.

1.5 UNDERWATER COLOUR.1
VIDEO EQUIPMENT

Contractor shall provide an underwater colour video system capable of providing a clear picture acceptable to the Departmental Representative. Underwater video camera and associated equipment which will enable constant monitoring from the surface and simultaneous recording monitoring from the surface and simultaneous recording of video and audio on a DVD disk. The video camera must be capable of operating in depths up to 30 metres and distances up to minimum 100 metres away from its power supply and monitoring source. Contractor shall provide and maintain any necessary power to operate this system.

1.5 UNDERWATER COLOUR.2
VIDEO EQUIPMENT
(Cont'd)

- Contractor to provide all necessary lighting of sufficient intensity to monitor and furnish a video to show adequate detail and clarity.
- .3 Voice communications must be available with the diver during the underwater inspection and video tapes must have voice overlay which will identify each area or phase of the inspection.
- .4 On occasion, the diving contractor will provide, operate and maintain underwater colour video camera, monitor and provide weatherproof monitoring station at the site during the inspection.
- .5 The DVD disk (dubbed) will be submitted to PWGSC within (3) days of completion of all field work or upon completion of the site investigation when requested by the Departmental Representative. All video's will be dubbed before they are submitted to the department. If video is not clear and not viewable of findings, contractor will be responsible to correct at his cost. The video should be reference to the scaled autocad drawing file at all times.

1.6 TERMS OF PAYMENT.1

- Base of operations for Western Region is Corner Brook, NL.
- .2 Diving Crew - personnel will consist of a (4 man Dive team) and equipment required to perform inspections or work, as detailed in General Requirements, will include all diving services, support services, access to area under investigation, dive support vessel, lighting, various sizes of lift bags to lift items up to 10 tonne, probe rods up to 2m or longer in length, cameras and video camera, film and all other services required will be the responsibility of the diving contractor and incidental to the hourly rate for diving crew. The quantity of hours determined for payment will be time needed for operating hours on site (excluding time for nutritional breaks, see section 1.2.7 or 1.2.8) or for any stopages not related to the work. For multi-day trips, reasonable effort should be

1.6 TERMS OF PAYMENT.2
(Cont'd)

(Cont'd)
made to coordinate travel between sites to reduce time and km's travelled, where appropriate, time to include actual on site work for that day and travel according to government travel regulations for meals (see section 1.2.7 or 1.2.8) and accommodations. Payment for job preparation, equipment cleanup, breakdowns and all other components of work will not be measured. No payment will be made for equipment damaged or for consumable products needed to facilitate the work. Equipment to perform the above inspection to be included in the above per hour rate, (i.e., incremental wood borer tools, etc.) This will be measured per hour from the time of the actual start of work at the site, contractor has 1 hour to start diving after arriving on site and will be paid for 1 hour after diver finish work, any additional time will not be paid. Report writing and Underwater Video will be included under this pay item (no separate payment will be may). There may at times be additional work that is not outline in the above breakdown for the contractor. This work/equipment will be covered under the Miscellaneous Material Allowance item and done on a hourly price supplied by the contractor.

- .3 Diving Crew Travel - personnel will consist of a (4 man Dive team) as detailed in General Requirements, will include time and equipment required to to travel from Home Base to site, from site to site and return to Home Base. The quantity of hours determined for payment will be time needed for reasonable travel as per the governemnt site -
(<http://www.stats.gov.nl.ca/datatools/roaddb/distance/>) to and from site (excluding time for nutritional breaks, see section 1.2.7 or 1.2.8 and contractor breakdowns). For multi-day trips, reasonable effort should be made to coordinate travel between sites to reduce time and km's travelled, where appropriate, time to include actual travel according to government travel regulations for meals (see section 1.2.7 or 1.2.8) and accommodations. This will be measured per hour from the home base once the diving contractor has departed their office to travel to the

1.6 TERMS OF PAYMENT.3
(Cont'd)

(Cont'd)
site, then once work completed, time to travel to other site(s) or back to home base (if home base is within 100km, contractor is to return to home base). These hours and kilometers will be base on the time and distance given on the provincial governemnt web site.

- .4 The Supply and transportation of minimum of Grade 43 galvanized chain - WLL X 9200lbs@4:1 DF and (Van Beese) or (Crosby) or equivalent galvanized shackles Bolt/Nut/Cotter Pin to each site as required. Chain and Shackle must be certified. Contractor will have at his availability at least 2 barrels of chain at all times for emergency calls for repairs. The installation of chains, shackles or any other material will be covered under section 1.6.2. The chain will be measured by the meter and the Shackles by each one supply. Before the installation on any chain, we require a picture of each lenght of chain being installed. After installation we require a picture or video of the new chain. These items must be verify by the Harbour Authority, DFO or Departmental Repesentative before any payment will be made to contractor. A sign off copy must be submitted with invoice.

- .5 Underwater Colour Video - any cost for this item will be included under Section - Terms of Payment 1.6.2, equipment as per Special Requirements including voice communication, monitor station, DVD disks lighting and all consumables required for performance of the underwater video. Video will be completed for all new work unless contractor is notify that it is not required. No separate payment will be may for this item.

- .6 Report Writing - any cost for this item will be included under Section - Terms of Payment 1.6.2 and will be for preparation of report which will include all necessary work required in compiling of the report including drafting (CADD drawings and electronic files required on a cd in autocad 2010 format or more), typing, a CD of the report in word format and digital, email report in pdf format, photographic development and printing. Contractor will include pictures of all new

1.6 TERMS OF PAYMENT.6
(Cont'd)

(Cont'd)

work completed in report, a picture of the dockas prior to starting and pictures after work is completed. The report must be submitted electronic also. A report is required for every project. No invoice will be paid until receipt of report and is accepted by PWGSC or the client. No separate payment will be may for this item.

- .7 Travel/Expenses - will be paid as per Federal Government Travel Regulations (see section 1.2.7 or 1.2.8 for break down), 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. Kilometers will be measured from the home base site, to the work site and return or to other work site. If contractor has to stay overnight to complete work, he should locate nearest accommodations to the area of work, except if they are within 100km of home base, he shall return to home base and travel back to site the next day.
- .8 Invoices - to be submitted for each Call-up, indicating Standing Offer number, Call-up number, project number, location, and Departmental Representative requesting the services. Also to be broken down when left home base (travel time), work hours (on site) and travel back to home base or hotel (travel time). Contractor is to make sure proper rates are on all invoices, invoices will be return for corrections if any errors found. Contractor will contract Harbour Authority or Departmental Representative every time when arriving to site, before any work starts and leaving site. Contractor is responsible to get Harbour Authority or Departmental Representative to sign off or verified on the original scope of work before leaving site. DFO will review all invoices before any payment will be made.
- .9 Miscellaneous Material Allowance: The supply of miscellaneous materials will be paid at the fair market value according to the actual invoiced cost, including only appropriate taxes as pre-approved by the Departmental

1.6 TERMS OF PAYMENT.9
(Cont'd)

Miscellaneous Material Allowance: (Cont'd)
Representative. All costs must be supported by adequate documentation. Items like a larger dive vessel other than the support vessel of the contractor will be paid under this. 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 Material Allowance Cost. The Contractor will make every effort to obtain the best price available for any specified material.

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 Diving Support Vessel: a safety boat on site or a work boat if required.
- .5 PPE: personal protective equipment
- .6 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 Make submittals in accordance with regulations that apply to the Work.
 - .2 Submit site-specific Health and Safety Plan prior to commencement of Work.
 - .1 Submit within 1 work days of notification of Bid Acceptance. Provide (1) copy.
 - .2 Departmental Representative will review Health and Safety Plan and provide comments.
 - .3 Revise the Plan as appropriate and resubmit within 1 work days after receipt of comments.
 - .4 Departmental Representative's review and comments made of the Plan shall not be
-

1.2 SUBMITTALS
(Cont'd)

- .2 (Cont'd)
- .4 (Cont'd)
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.
- .3 Submit name of designated Health & Safety Site Representative and support documentation specified in the Safety Plan.
- .4 Submit building permit, compliance certificates and other permits obtained.
- .5 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.
- .6 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .7 Submit copies of incident reports.
- .8 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,

1.3 COMPLIANCE
REQUIREMENTS
(Cont'd)

- .4 (Cont'd)
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/)
 - .2 COSH can be viewed at:
[www.http://laws.justice.gc.ca/eng/SOR-86-304/
n e .html](http://laws.justice.gc.ca/eng/SOR-86-304/n e .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,

1.4 RESPONSIBILITY .2
(Cont'd)

(Cont'd)
regulations, and ordinances, and with
site-specific Health and Safety Plan.

1.5 SITE CONTROL .1
AND ACCESS

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
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 Isolate Work Site from other areas of the
premises by use of appropriate means.

.1 Erect fences, hoarding, barricades and
temporary lighting as required to effectively
delineate the Work Site, stop non-authorized
entry, and to protect pedestrians and
vehicular traffic around and adjacent to the
Work and create a safe environment.

.2 Post signage at entry points and other
strategic locations indicating restricted
access and conditions for access.

.3 Provide safety orientation session to persons
granted access to Work Site. Advise of hazards
and safety rules to be observed while on site.

.4 Ensure persons granted site access wear
appropriate PPE. Supply PPE to inspection
authorities who require access to conduct
tests or perform inspections.

.5 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 FILING OF
NOTICE

- .1 File Notice of Project with pertinent provincial health and safety authorities prior to beginning of Work.
 - .1 Departmental Representative will assist in locating address if needed.

1.8 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.

1.9 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.

1.10 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 or in the water.
 - .2 Use of water crafts, working from vessel 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 with equipment (lift bags, etc.).
 - .8 Working at heights.
 - .9 Cutting tools and other construction power tools.
 - .10 Overhead power/utility lines.
 - .11 Risk of electric shock when using equipment.
 - .12 Vehicular and pedestrian traffic.
 - .13 Working in poor lighting conditions, muddy water, night time.
 - .14 Working around old wharves with nets, spikes and various debris.
 - .15 Fishing activities with boats.
- .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.

1.11 MEETINGS

- .1 Attend pre-construction health and safety meeting if required, 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

1.11 MEETINGS
(Cont'd)

- .1 (Cont'd)
- .3 Subcontractors
- .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.

1.12 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.
 - .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.

1.12 HEALTH AND
SAFETY PLAN
(Cont'd)

- .3 (Cont'd)
 - .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 including those of subcontractors.
 - .6 Review Health and Safety Plan regularly during the Work. Update as conditions warrant to address emerging risks and hazards, such as whenever new trade or subcontractor arrive at Work Site.
 - .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 Post copy of the Plan, and updates, prominently on Work Site.

1.13 SAFETY
SUPERVISION

- .1 Employ Health & Safety Site Representative responsible for daily supervision of health and safety of the Work.

1.13 SAFETY
SUPERVISION
(Cont'd)

- .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 Cooperate with Facility's Occupational Health and Safety representative should one be designated by Departmental Representative.
- .7 Keep inspection reports and supervision related documentation on site.

1.14 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.

1.15 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.

1.16 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

1.16 CORRECTION OF
NON-COMPLIANCE
(Cont'd)

- .3 (Cont'd)
regulations is not corrected in a timely manner.

1.17 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.

1.18 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.

1.19 BLASTING

- .1 Blasting or other use of explosives is not permitted on site without prior receipt of written permission and instructions from Departmental Representative.
.2 Do blasting operations in accordance all permits.

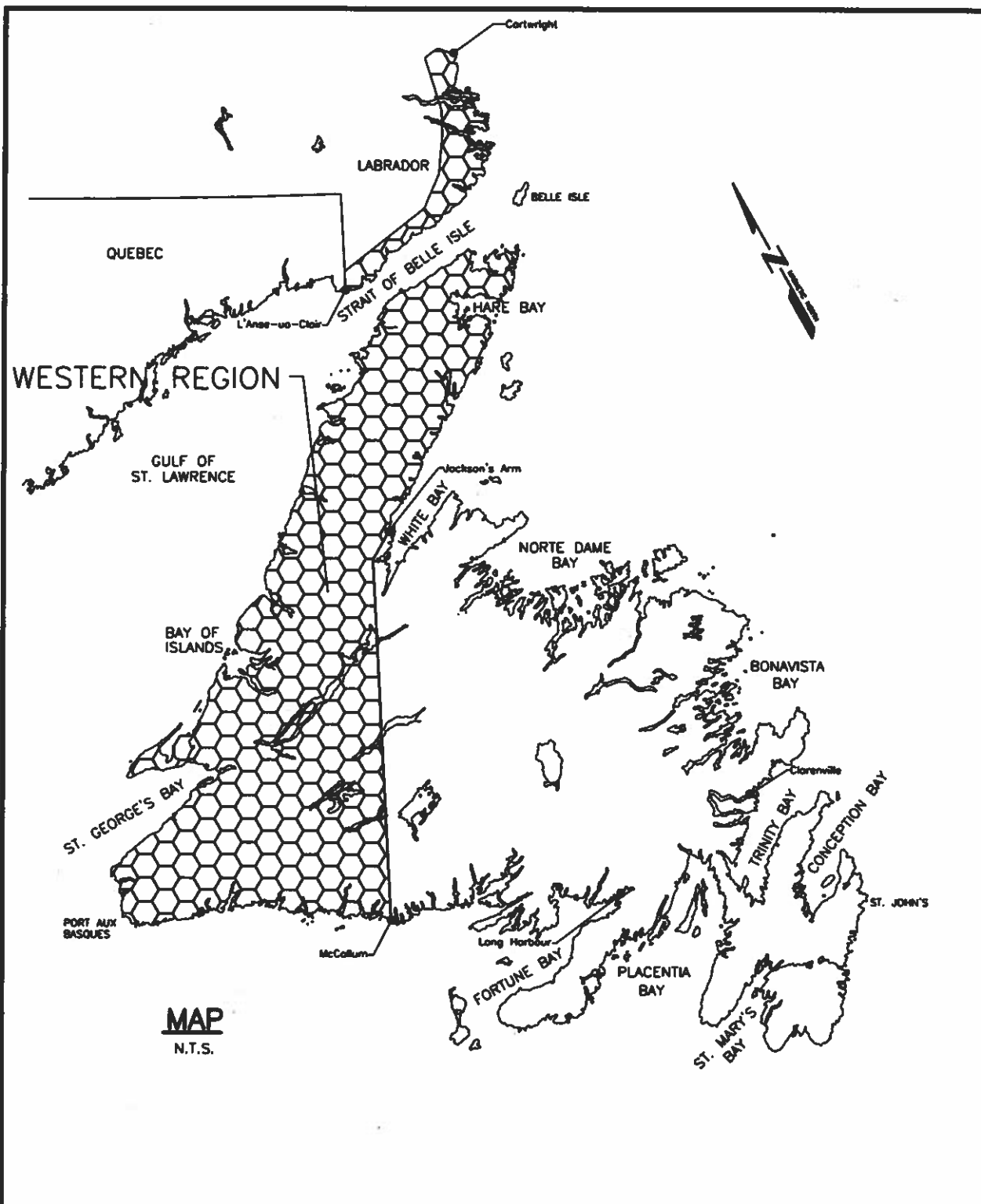
- 1.20 POWDER ACTUATED DEVICES .1 Use powder actuated fastening devices only after receipt of written permission from Departmental Representative.
- 1.21 CONFINED SPACES .1 Abide by occupational health and safety regulations regarding work in confined spaces.
- .2 Obtain an Entry Permit in accordance with Part XI of the Canada Occupational Health and Safety Regulations for entry into an existing 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.
- 1.22 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.
- 1.23 POSTING 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
-

1.24 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.
- .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.

1.25 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 contract.



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

designed by: PWGSC date:

conçu par: EB

drawn by: approved by:

dessiné par: no. du projet:

project no.: dwg no.: dessin no.:

1 OF 1

DIVING

WESTERN REGIONS, NL

Drawing title: Titre du dessin:

SITE PLAN

scale:
échelle:

date:
JUNE 2015

revisions:

Plot Scale: