



Transports
Canada

Transport
Canada

Canadian Environmental Assessment Act (CEAA) Environmental Monitoring Report

Project Title	Securing of the Mont-Louis wharf
TC/CEAA File No.	
Proponent Name	Transport Canada
Monitoring Lead	
Date of Work	

Important:

You must inform the TC Environmental Affairs and Aboriginal Consultation Unit of any changes to the work and/or schedule.

This environmental monitoring report constitutes an appendix of an environmental effects assessment report produced in compliance with section 67 of the *Canadian Environmental Assessment Act* (CEAA, 2012). A copy of this report can be provided to you on request.

This environmental monitoring form or an equivalent report, completed by the site supervisor, must be sent to *Transport Canada*. Please send it by mail to the attention of:

Catherine Gaudette
Transport Canada/Programs Branch
700 Leigh Capreol
Dorval, Quebec
H4Y 1G7

or by e-mail to catherine.gaudette@tc.gc.ca

Mitigation measures	Measure applied		Verification dates	Comments (If not applied, explain)	Submittals**	
	Yes	No			Photo (s)	Document (s)
General						
Conduct an assessment of the condition of the two streets before commencement of the work and on completion of the work. If damage attributable to the Contractor's activities is detected, the Contractor shall effect the necessary repairs.						
Inform area residents as well as elected municipal officials of the progress of the work and of any changes that may arise in the work schedule or the implementation approach.						
The Contractor shall draw up an effective contingency plan in the event of an environmental incident, spill (sediment or harmful substances) or fire taking into account the characteristics and constraints of the job site and its environment, and provide a copy to all the persons concerned, including the Departmental Representative.						
All relevant personnel on the job site shall be fully trained in the emergency response procedures in the event of a spill, the applicable methods and the use of appropriate equipment.						
Immediately report any accidental spill to the person responsible for the project contingency plan, who will ensure that the authorities concerned are promptly contacted, that the affected area is contained, and that the contaminated soil as well as the residual soil left in place, any petroleum residues and other waste are cleaned up and managed in accordance with the applicable acts and regulations.						
Any accidental spill of diesel or gasoline or other environmental incident must be reported immediately to the Departmental Representative and to the following authorities: <ul style="list-style-type: none">• Environment Canada, Environmental Emergencies Centre. Tel.: 866-283-2333.• MDDELCC. Tel.: 1-866-694-5454.• Canadian Coast Guard, Marine Pollution. Tel.:1-800-363-4735• Job site supervisor:<ul style="list-style-type: none">▪ These emergency numbers must be posted in a conspicuous location at all times in the job site office (trailer).▪ The Contractor shall take every necessary measure to halt the source of the spill within safety guidelines. An oil absorbent boom and/or mat shall be deployed in order to contain the spill. The mats or booms shall be stored in a clearly marked shore-side container and shall be towed in place in order to absorb or contain the spill.						
The water contaminated by an accidental spill shall be contained so it can be characterized or managed directly by a specialized company, in accordance with MDDELCC directives and regulations.						

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<p>Develop and implement an erosion and fines control plan for the site, aimed at minimizing the risks of turbidity, dispersion and sedimentation in the cove at all stages of the project. Erosion and fines control measures must be implemented until the added or reworked materials are permanently stabilized and the suspended sediments settle on the seabed. The plan should include, where applicable:</p> <ul style="list-style-type: none"> the implementation of effective measures (silt fences, berms, sediment traps, settling basins, temporary slope stabilization, diversion of water to vegetated areas) to control erosion and fines prior to commencement of the work in order to prevent the transport of fine particulate matter to the cove and maintain the effectiveness of these structures, particularly during bad weather; the implementation of measures to manage runoff on the site, as well as water pumped or diverted off site, so that the fines are decanted before the water reaches the water body (e.g. pump or divert the water to a settling basin or other filtering facility); site isolation measures (e.g. turbidity curtains, silt curtains) to contain suspended sediment in the area where in-water work is required; measures to contain and stabilize debris or waste above the high-water mark of neighbouring water bodies in order to prevent this debris or waste from re-entering the water (silt fences, polyethylene membranes protecting them from precipitation; quickly transport materials from these piles to disposal sites); regular inspection and maintenance of erosion and fines control measures and structures during the construction work; repairs to the erosion and fines control measures and structures in the event of damage; removal of non-biodegradable erosion and fines control materials once the site is stabilized: <ul style="list-style-type: none"> for riprap construction, use “clean” stones, i.e. free of fine particulate matter; remove all unused construction materials from the site and quickly restore the site to its original condition, including stabilization of all surfaces used, immediately upon completion of the project. 						
As soon as soil contaminated by petroleum hydrocarbon spills or leaks is discovered, excavate the volumes of contaminated soil, place them in impermeable containers and dispose of them in accordance with the hazardous materials and contaminated soils management plans. A prompt response will prevent these substances from infiltrating deeper into the soil.						
Dispose of petroleum residues and other hazardous waste based on the nature of any contamination present, in accordance with the applicable acts and regulations.						

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Waste characterized as being hazardous materials must be shipped by the Contractor to a hazardous materials disposal, storage, transfer, recycling or treatment centre authorized by the MDDELCC.						
Machinery shall not be stored within 30 m of the shore or a waterway nor be used directly on the bottom of the cove at low tide.						
The machinery and trucks used must be inspected prior to use, then regularly inspected in order to ensure that they are in good working order, clean and free of all hydrocarbon leaks and invasive species, and must subsequently be maintained in this condition. In the event of breakdown, the equipment concerned must be repaired or replaced.						
Minimize soil stripping and vegetation removal.						
Develop a hazardous materials management plan (storage, transportation, disposal, recovery, control and decontamination measures).						
Develop a compensation plan for loss of fish habitat caused by the new riprapping (5,962 m ²).						
Pre-construction						
Job site mobilization						
Inform the owners of properties adjacent to the work area of the work schedule and the location of the storage areas.						
Clearly demarcate the boundaries of the work and storage areas using fencing and proper signage in order to restrict access to these areas by pedestrians and cyclists who may venture as far as the wharf area.						
Inform area residents of the routes planned for heavy vehicle movements for the duration of the work.						
When selecting contractors and hiring workers for the work, give preference to local contractors and workers from the municipality and region.						
Each spring prior to commencement of work, the Contractor shall inspect the approach and wharf to determine if bird nests are present. If one or more nests are found, immediately notify the Departmental Representative.						
Inform the organizers of the water trail known as the "Route bleue de la Gaspésie" of the work, so that they can include a message on their website and send a message to the various trail users concerning the planned work and its schedule.						

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Clearly demarcate the boundaries of the work area in the cove in order to avoid potential boating accidents.						
Inform the organizers of diving activities north of the wharf of the planned work and its schedule.						
Post the names and contact information of the job site supervisors at the access point to the job site.						
Develop and implement a health and safety plan combined with mandatory training for all workers involved in carrying out the project.						
Inform the authorities concerned and residents of the areas affected of the nature and phases of the work, and provide them with the contact information of resource persons whom they can contact in the event of a complaint.						
Install fixed equipment (generators, compressors, etc.) in locations far from areas sensitive to noise.						
On the temporary storage area, install a geotextile membrane covered with a layer of fines in order to prevent perforation.						
When setting up the temporary work area, be particularly careful not to fill in the natural tidal pools of the rocky foreshore in order to maintain their biological productivity.						
Whenever possible install the infrastructure and equipment required for the work on non-vegetated surfaces, such as the parking lot located near the wharf.						
Construction						
Transport and movement of equipment and materials						
Continuously monitor the cleanliness of the two access roads and clean them using a street sweeper, when required.						
Clean the access roads regularly for the duration of the work.						
Post a safety watch person during movement of oversized vehicles (excavators on the transport platform) on 7th and 10th Streets in order to prevent damage to overhead power lines.						
Whenever possible, route vehicle traffic through 7th Street during the period that the Parc et Mer campground is open, i.e. from early May until early October.						
Avoid routing vehicle traffic through local streets other than 7th and 10th Streets.						

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If a barge is used, ensure close communication between the captain of the barge and users of the Mont-Louis wharf, install (moor) the requisite buoys or markers and ensure that they remain functional for the duration of the work.						
All floating equipment must be equipped with signal lights to indicate their location in accordance with the <i>Canada Shipping Act</i> . These signal lights must be kept in good working order in accordance with the <i>Collision Regulations</i> and the <i>Navigation Safety Regulations</i> .						
Keep the speed of vehicles on 7th and 10th Streets below posted limits.						
Equip machinery with effective mufflers and ensure that the engine housing is in good condition.						
Install, on land-based equipment, a white-noise back-up alarm 5 dBA above the ambient noise level and/or strobe light.						
Continuously monitor vehicle movements associated with the job site in order to avoid any encroachment on adjacent usages.						
Preference should be given to using water over other types of dust control agents to control emissions of suspended particulate matter, particularly for paved surfaces. If another dust control agent is used, it must comply with standard BNQ 2410-300.						
Continuously maintain the temporary road surfaces and associated runoff, to prevent initiation of gully processes, leading to a loss of soil (contaminated or not) to natural waterways.						
Restrict the movement and parking of motorized vehicles to roadways and authorized work areas.						
Use tarps when transporting granular materials.						
Refuel mobile equipment with fuels that comply with the applicable regulatory provisions of the <i>Canadian Environmental Protection Act</i> (CEPA) with respect to concentrations of lead (< 30 mg/L), sulphur (15 mg/kg), phosphorus (1.3 mg/L) and benzene (< 1.5%).						
Ensure that the vehicles and equipment used are maintained in perfect running order (e.g. exhaust system).						
Turn off the motors of unused job site equipment as soon as possible (avoid leaving them running unnecessarily).						
Work to secure the wharf (demolition, excavation, crushing and riprapping)						

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During the peak tourist season (July and August), limit the work schedule to 7:00 am to 7:00 pm. Outside of this period, work could be extended until 10:00 pm if necessary.						
In order to avoid affecting the essential biological activities of marine wildlife as well as local commercial fishing activities during the restriction periods determined by Fisheries and Oceans Canada: <ul style="list-style-type: none"> Do not carry out in-water work between 9:00 pm and 5:00 am between April 16 and August 31 in order to protect anadromous and catadromous species, in particular the American eel, Atlantic salmon and brook trout. Do not carry out in-water work between May 26 and July 10 in order to protect the capelin spawning period. 						
If pneumatic hammers and/or hydraulic drills must be used, they are to be equipped with a noise attenuator (muffler supplied by the manufacturer or acoustic enclosure).						
Avoid banging the tailgate of dump trucks when lowering the box.						
No borrow material shall be removed from the bed of the cove or the banks.						
Minimize work carried out directly in the water (e.g. depositing stones with a crane or excavator).						
Insofar as possible, use machinery on dry land above the high water mark or on a barge to minimize disturbance of the banks, beach and seabed.						
Use equipment that minimizes sediment suspension (e.g. hydraulic shovel).						
All granular materials used during this project must be clean and free of contamination.						
Preference should be given to using equipment that uses biodegradable vegetable oil (HF type) for work carried out on the edge of the water body.						
Tide levels must be taken into account in planning the work. The Contractor shall plan the work so that its machinery is always on dewatered surfaces. For in-water work likely to generate SS emissions and turbidity, the Contractor shall carry out such work at low tide whenever possible.						
Carry out complete clean-up of the aquatic environment continuously as the work progresses, in order to recover any debris generated by the work.						
Suspend the work when weather conditions are unfavourable and likely to adversely affect control of SS emissions and turbidity, in order to prevent the dispersion or propagation of sediments and potentially associated contaminants outside the work area.						

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Lay the armour stones one by one on the seabed or as close as possible to the seabed rather than dropping them from the surface.						
Avoid crushing work during very windy days when the wind is blowing in the direction of the campground and homes.						
Control dust emissions from the crusher by spraying water or using containment equipment.						
When stored in piles, granular material that is liable to become airborne must be covered or kept wet to prevent it from being transported by the wind.						
When placing the riprap, care should be taken to ensure that the riprapping is kept strictly within the planned area.						
During construction activities, the surfaces located below the waves of high tide must be quickly stabilized in order to reduce the risk of erosion of fines which can result in turbidity.						
Do not carry out in-water work between 9:00 pm and 5:00 am between April 16 and August 31 in order to protect anadromous and catadromous species, in particular the American eel, Atlantic salmon and brook trout.						
Do not carry out in-water work between May 26 and July 10 in order to protect the capelin spawning period.						
When a cetacean or sea turtle is observed less than 200 m from the work area in the aquatic environment, stop the work and wait for the animal to move more than 200 m away.						
Avoid any temporary storage of contaminated materials in the work area and, insofar as possible dispose of them at an authorized site as they are excavated. If temporary storage is unavoidable, lay down an impermeable surface with a retention capacity and cover the stored materials with impermeable tarps to protect them from bad weather.						
Refueling and maintenance						
The cleaning, maintenance and refueling of machinery must be carried out in a manner to prevent harmful substances from entering the water and must be carried out at least 30 m from the shore. In the event that certain pieces of equipment must be used within 30 m of the shore, the Contractor shall submit to the Departmental Representative a protection plan during these operations.						

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Fuel and any other hazardous materials shall be stored more than 30 m from the shore. If temporary petroleum facilities are used, the storage areas shall be laid out in compliance with the applicable regulations. The storage systems shall be located on impermeable surfaces.						
The number of hydrocarbon tanks used for refueling of machinery should be kept to a minimum. Carry out refueling on an impermeable surface. Tanks must be installed in accordance with the applicable regulations. Fixed above-ground tanks must be installed on an impermeable surface capable of passively retaining 150% of the nominal capacity of the tanks, and tanks should be of double-wall construction with an inspection hole for regular verification of any potential leaks.						
The maintenance and refueling of vehicles and equipment must be carried out on impermeable surfaces capable of containing any leaks or spills.						
Near any locations where petroleum hydrocarbons are stored or handled, provide emergency response equipment and materials to halt and confine any spill. Emergency petroleum products and hazardous materials recovery kits should be available and accessible on the job site. Secondary emergency kits may be necessary in certain locations of the job site during the construction phase.						
Waste management						
Implement a waste management system that takes into consideration the nature of the waste and that includes appropriate containers based on the nature of the waste.						
Regularly inspect the work area and its periphery for waste or large accumulations of dust and manage them appropriately.						
Plan the work so as to prevent any construction materials or debris from entering the water. It will also be prohibited to dispose of waste or volatile materials in the gulf or the cove or in storm or sanitary sewers.						
Cover waste to prevent windblown dust and debris.						
Demobilization and site restoration						
At the end of the work, remove the materials and equipment comprising the temporary work area and restore the site to its original condition.						
Replanting of the banks must be done as soon as possible after grading work is complete, with preference given to indigenous species.						
Re-profile the temporary work areas with stable slopes prior to replanting.						

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All ground surfaces left bare following the work should be replanted with vegetation.						
Promote the recovery of aquatic vegetation by initiating a process of algal recolonization of the new riprapped surfaces (see compensation program).						
Operation						
Maintenance of the structure						
No specific measures.						
Presence of the structure						
A fence and signs will be installed to prevent access to the new structure, which will not be accessible to the public.						

** Photographs and documents (specifications, minutes of project site meetings, etc.) must be provided as a minimum for the elements requested in the table.

Additional Comments:**MONITORING CARRIED OUT**

Prepared by:

Date:

Title:

Organization:

Tel. No.:

I certify that the above information is correct and complete and corresponds to my interpretation of the work.

Signature:

Date:

Prepared by:

Position Title:

Company: