

**Part 1            General**

**1.1                RELATED REQUIREMENTS**

- .1        Section 01 14 00, Work restrictions.
- .2        Section 01 74 21, Construction-demolition waste management and disposal.

**1.2                REFERENCES**

- .1        Definitions:
  - .1        Environmental Pollution and Damage: presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably alter ecological balances of importance to human life; affect other species of importance to humans; or degrade the environment aesthetically, culturally and/or historically.
  - .2        Environmental Protection: prevention/control of pollution and habitat or environment disruption during construction.

**1.3                ACTION AND INFORMATIONAL SUBMITTALS**

- .1        Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2        Product Data:
  - .1        Submit one electronic copy of WHMIS MSDS in accordance with Section 01 35 29.06 - Health and Safety Requirements.
- .3        Before commencing construction activities or delivery of materials to site, submit Environmental Protection Plan for review and approval by Departmental Representative.
- .4        Environmental Protection Plan must include comprehensive overview of known or potential environmental issues to be addressed during construction.
- .5        Address topics at level of detail commensurate with environmental issue and required construction activities.
- .6        Include in Environmental Protection Plan:
  - .1        Name[s] of person[s] responsible for ensuring adherence to Environmental Protection Plan.
  - .2        Work area plan showing proposed activity in each portion of area and identifying areas of work, storage and traffic.
  - .3        Spill Control Plan to include procedures, instructions, and reports to be used in event of unforeseen spill of regulated substance.
  - .4        Non-Hazardous solid waste disposal plan identifying methods and locations for solid waste disposal including work debris.
  - .5        Waste Water Management Plan identifying methods and procedures for management and discharge of waste waters which are directly derived from

construction activities, such as clean up water used to wash concreting equipment and tools.

#### **1.4 WASTE DISPOSAL**

- .1 Burying wastes and waste materials on site is prohibited.
- .2 Fires and burning of rubbish on site is not permitted.
- .3 Disposal of wastes or volatile materials such as mineral spirits and oil or paint thinners into waterways, storm or sanitary sewers is prohibited.

#### **1.5 DRAINAGE**

- .1 Ensure pumped water into waterways, sewer or drainage systems is free of suspended materials.
- .2 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.

#### **1.6 WORK ADJACENT TO WATERWAYS**

- .1 Construction equipment to be operated from the wharf or on land only.
- .2 Waterways to be kept free of excavated fill, waste material and debris. All debris accidentally introduced in the aquatic environment shall be removed without delay.
- .3 Do not skid logs or building materials from one side to the other stream.

#### **1.7 POLLUTION CONTROL**

- .1 Maintain temporary erosion and pollution control features installed under this Contract.
- .2 Control emissions from equipment and plant in accordance with local authorities' emission requirements.
- .3 Prevent sandblasting and other extraneous materials from contaminating air and waterways beyond application area.
  - .1 Provide temporary enclosures where directed by Departmental Representative.
- .4 Cover or wet down dry materials and rubbish to prevent blowing dust and debris.
- .5 Store and handle carefully hydrocarbons and other hazardous materials used on site (diesel, gasoline, engine and hydraulic oils, lubricants) in a suitable area on the mainland at least 30 metres from the shoreline.
- .6 Use type HF biodegradable oil in equipment and machinery in contact with or operating on water.
- .7 Use clean equipment and machinery in good working condition. Machinery must not show any sign of leaking fuel, oil or grease. Provide upon request of Departmental Representative a mechanical inspection certificate.
- .8 Do not idle machinery engines when not in use.

- .9 The Contractor shall have permanently on hand an emergency petroleum product recovery kit comprised of flotation collars, absorbent pads or collars, drums and related equipment (gloves, etc.) essential to deal with a small-scale spill. This type of kit is available from specialised suppliers and the must be approved by the Departmental Representative.
- .10 The Contractor shall provide the work site personnel with a briefing on recovery methods before starting work.
- .11 In the event of equipment failure, repair the equipment immediately and apply the usual emergency measures to control the situation; the area contaminated by toxic substances will be contained and cleaned and the contaminated material removed and disposed of at a site authorized by MDDELCC (ministère du Développement durable, de l'Environnement et de la Lutte contre les changements climatique).
- .12 In the event of an environmental emergency, the Contractor shall take all necessary measures to minimize the impacts, including compliance with MTQ's « Guide sur le transport des matières dangereuses ». The Contractor shall also notify the Departmental Representative as soon as the first steps to minimize environmental impacts have been taken.
- .13 Report any incident to Environment Canada's Emergencies Reporting System (1-866-283-2333), to MDDELCC (1-866-694-5454) and to the Departmental Representative.
- .14 The Contractor must have at all time a boat and the necessary equipment (life jackets) to recover any material accidentally released in the marine environment.

## **1.8 NOTIFICATION**

- .1 Departmental Representative will notify Contractor in writing of observed noncompliance with Federal, Provincial or Municipal environmental laws or regulations, permits, and other elements of Contractor's Environmental Protection plan.
- .2 Contractor: after receipt of such notice, inform Departmental Representative of proposed corrective action and take such action for approval by Departmental Representative.
  - .1 Take action only after receipt of written approval by Departmental Representative.
- .3 Departmental Representative will issue stop order of work until satisfactory corrective action has been taken.
- .4 No time extensions granted or equitable adjustments allowed to Contractor for such suspensions.

## **Part 2 Products**

### **2.1 NOT USED**

- .1 Not Used.

**Part 3            Execution**

**3.1                CLEANING**

- .1      Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1          Leave Work area clean at end of each day.
- .2      Ensure public waterways, storm and sanitary sewers remain free of waste and volatile materials disposal.
- .3      Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .4      Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
  - .1          Remove recycling containers and bins from site and dispose of materials at appropriate facility.

**END OF SECTION**