

**APPENDIX 5**

**Environmental Protection**

**Base Valcartier**

## Environmental Protection

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The Contractor and its subcontractors shall comply with the directives set out below to preserve the quality of the environment on Department of National Defence property. The Contractor shall adopt work methods which allow it to prevent accidents that can degrade the environment. All environmental damages caused by Contractor activity shall be its responsibility and it shall take the necessary measures to restore to their original condition all sites degraded by its activities within the timeframe prescribed by the forestry authority or an NRCan representative.

### 5.1 Contractor's spill response plan

- .1 The contractor shall have a spill response plan (SRP). A DND-approved SRP model will be given to the contractor. Using this model will ensure compliance with laws and regulations and facilitate communications and response should a spill occur on our site.
- .2 The contractor shall have, on site, the appropriate response equipment for spill containment and recovery. The quantity of equipment to prepare will be proportional to the project's scope and spill risks. Spill equipment shall be easily accessible and allocated adequately throughout the site to cover all risks, at any time and place during the project (heavy equipment, tankers, generators, heating system, pump, etc.).
- .1 Without limitation, such response kit must include at least basic equipment and devices suitable for containing any spill, to minimize the risk of spreading contamination caused by a spill of oil, hazardous materials or other contaminants. The response kit shall be labelled "EMERGENCY-ENVIRONMENT" and contain:
  - .1 2 pairs of rubber gloves;
  - .2 2 pairs of safety goggles;
  - .3 1 epoxy putty stick;
  - .4 Duct tape;
  - .5 1 oil absorbent sock: 3 inches in diameter, 12 feet in length;
  - .6 1 oil absorbent sock: 3 inches in diameter, 4 feet in length;
  - .7 25 absorbent mats;
  - .8 2 bags of absorbent, 7 litres (sphagnum moss type);
  - .9 3 plastic recovery bags;
  - .10 2 shovels;
  - .11 Cutting pliers and screwdrivers;
  - .12 1 permanent marker;
  - .13 Two "DANGER" signs;
  - .14 "Environmental incident report" declaration forms for CFB Valcartier, provided by the Department Representative.
- .3 Employees working on site shall know the location of, have unrestricted access to and know how to use spill equipment.
- .4 Contractors and subcontractors who perform work that requires the use of motorized or fuel transfer equipment, or hazardous materials, shall know the

spill response plan and procedures.

- .5 Make sure that all persons likely to respond in a spill have attended an awareness session and are prepared to act quickly and effectively in a spill.

## **5.2 Procedures for oil, hazardous material or other contaminant spills**

- .1 Implement the procedures described in the contractor spill response plan (SRP), which is based on DND requirements. Take photos before, during and after the response.
- .2 This is a brief summary of the SRP's main steps, to which the contractor must adhere:
  - .1 Make sure people are safe and recover the spill immediately.
  - .2 If the contractor is unable to contain or recover the spill immediately or the spill is in water, it must notify the following contacts, according to the area in which the work is being performed:
    - .1 Base: Fire Department (844-5333);
    - .2 Training areas: Checkpoint (844-5000, extension 3710);
    - .3 Citadel: Québec City Fire Department (911 or 691-7722);
    - .4 Armoury and other locations: Local Fire Department (911).
  - .3 Next, regardless of spill size, the contractor must immediately report the spill to the Department Representative and the Support Base environment officer (by cell phone: 418-563-2676).
  - .4 Within 24 hours, the contractor will draft an incident report and submit it to the Department Representative. The Department Representative will provide the model for this report before commencement of work.
- .3 The contractor will be liable for any product spill deemed harmful to the environment or to DND property; if applicable, the contractor shall immediately implement, at its own expense, the corrective measures prescribed by the Department Representative or the Base environment officer.
- .4 Failure to respond adequately and to the satisfaction of DND due to spill type and size will result in the contractor bearing the costs of additional response action requiring DND staff or machinery.

## **5.3 Work near a water body**

- .1 All watercourse shorelines shall be protected. Physically mark off the on-site shoreline to be protected. No one is allowed within the shoreline, except to perform re-naturalization work.
- .2 The contractor shall take necessary measures to eliminate or minimize the introduction of petroleum products or other hazardous materials into water bodies and wetlands.

## **5.4 Soil and water pollution prevention**

- .1 Contractors shall ensure that machinery, tools and equipment used to execute the work are safe, clean and in good working condition. The Department Representative reserves the right to deny access or to expel from the site machinery, tools and equipment that do not meet these requirements. Equipment that has been visibly neglected or has leaks or risks leaking will be

turned away from the work site at the expense of the contractor or equipment owner, at no cost to the Crown.

- .2 Equipment requiring replenishment of POL or other hazardous materials shall be located no closer than 30 metres from any watercourse and as far as possible from sanitary or storm sewer manholes or any ditch leading directly to a watercourse.
- .3 Equipment requiring replenishment of POL or other hazardous materials (e.g., generators, heating system, pumps, etc.) shall be installed on a surface that is level, impermeable and allows for spill containment. Put all stationary equipment in a retention basin or on an absorbent mat that will exceed the equipment perimeter by at least 1 ft. Pay special attention to the area near the fuel cap. Inspect equipment regularly and replace absorbent mats as needed.
- .4 Spills often occur during product handling. Sensitize all POL-handling staff to the importance of avoiding all types of spills, including small spills, which tend to be trivialized.
- .5 When replenishing, place an oil drip pan and/or a sorbent and/or a rag under the spout.

#### **5.5 Air pollution prevention**

- .1 The contractor shall control emissions from materials, equipment, vehicles and facilities in accordance with the requirements of local, federal, provincial and municipal authorities.
- .2 Vehicle idling is prohibited, unless otherwise authorized by the Department Representative.
- .3 Build temporary shelters to prevent sanding particles and other foreign matter from contaminating the air beyond the application area.
- .4 Soak dry materials and cover waste to prevent wind from raising dust or carrying debris. Eliminate dust on temporary roads.

#### **5.6 Hazardous material temporary storage**

- .1 As much as possible, avoid storing POL or other hazardous materials on the site. When the contractor is required to store hazardous materials and hydrocarbons for the purposes of the project, it shall have retention basins and response kits at storage locations.
- .2 Products stored on site shall be put away in a closed shelter. Storage areas shall be equipped with a liquid holding or collecting system (Polyspill pallets, splash block, impermeable coatings, undulations, trenches, drains that are closed-off or connected to a recovery system). Dispose of contaminated water according to the rules in force.
- .3 Storage areas for POL or other hazardous materials shall be located no closer than 30 metres from any watercourse, sanitary or storm sewer manholes, or any ditch leading directly to a watercourse.
- .4 Hazardous materials shall be stockpiled and interspaced horizontally at every 1 m. Incompatible materials shall be interspaced horizontally at every 3 m. Stockpiles shall be located no closer than 30 metres from a tree/shrub line and no closer than 6 m from a surface covered by herbaceous plants/grass. Comply with safety distances (15 m from

- tents, and 3 metres from combustible material and roads). Provide access for emergency responders.
- .5 Flammable and combustible liquid containers shall be stored vertically.
  - .6 Containers in poor condition shall be immediately disposed of outside of DND premises, in compliance with the strictest environmental standards. Label containers in compliance with WHMIS.
  - .7 Temporary storage rooms for hazardous materials shall display risks with TDG (transportation of dangerous goods) placards.
  - .8 Mobile tankers shall meet road standards. Tankers shall be grounded during fuel transfers. The refuelled vehicle or tank shall be connected to the tanker by a grounding cable (bonding continuity), ensuring that contact is on bare metal.
  - .9 Any closed container, with a capacity of more than 230 litres, used for the storage of POL and related products shall be double-walled and comply with the Transportation of Dangerous Goods Regulations (TDGR) and designed as per CAN/CGSB-43.146-2002

#### **5.7 Management and disposal of equipment, waste and residual materials**

- .1 Fires and waste burning are prohibited.
- .2 Burying any type of waste or materials on DND premises is prohibited.
- .3 It is prohibited to dispose of any type of waste or materials by pouring them into watercourses, storm sewers or sanitary sewers.
- .4 Materials and waste (hazardous or non-hazardous) generated by the project shall be separated and stored in disposal containers, shielded from the weather.
- .5 All storage areas must be located more than 30 metres from watercourses, ditches and all storm and sanitary sewer manholes.

#### **5.8 Traffic of vehicles transporting hazardous materials**

- .1 Any vehicle transporting hazardous materials must comply with the Transportation of Dangerous Goods Regulations (TDGR).
- .2 Any vehicle transporting hazardous materials shall enter the Valcartier Garrison through the main guardhouse (De la Bravoure road).
- .3 The vehicle shall then follow DND directions to the work site