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| <u>1.1 RELATED REQUIREMENTS</u> | .1 | Section 01 74 21 - Construction/Demolition Waste Management and Disposal. |
| <u>1.2 DEFINITIONS</u> | .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. |
| <u>1.3 FIRES</u> | .1 | Fires and burning of rubbish on site is not permitted. |
| <u>1.4 DISPOSAL OF WASTES AND HAZARDOUS MATERIALS</u> | .1 | Do not bury rubbish and waste materials on site. Dispose at approved landfill sites as specified in Section 01 74 21. |
| | .2 | Do not dispose of hazardous waste, volatile materials (such as mineral spirits, paints, thinners etc...) and petroleum products into waterways, storm or sanitary sewers, or in waste landfill sites. Ensure pumped water into waterways, sewers, or drainage systems is free of suspended materials. |
| | .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. Carry out 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 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.
- .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.

1.5 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 exceedances 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 such devices in good order for duration of Work.

1.6 PERMITS

- .1 All guidelines and instructions stated on permits must be strictly adhered to.

1.7 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.
- .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 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.

1.8 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 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 and

located adjacent to Work and where hazardous materials are stored. Provide personal protective equipment as required for clean-up.

- .7 Report, to Federal and Provincial environmental departments, spills of petroleum and other hazardous materials as well as accidents having the potential of polluting the environment. Also notify Departmental Representative and submit a written spill report to Departmental Representative within 24 hours of said occurrence.
- .8 Provide a floating debris containment boom whenever any of the methods of Work allow for the potential of floating debris.

1.9 WILDLIFE PROTECTION

- .1 Should nests of migratory birds in wetlands be encountered during Work, immediately notify Departmental Representative for directives to be followed.
 - .1 Do not disturb nest site or neighboring vegetation until nesting is completed.
 - .2 Minimize Work immediately adjacent to such areas until nesting is completed.
 - .3 Protect these areas by following recommendations of Canadian Wildlife Service.

1.10 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.

END OF SECTION