SPEC NOTE: Include this section only where new construction or major renovations are involved.

1.0 GENERAL

1.1 ENVIRONMENTAL CONTROLS

.1 Comply with Federal, Provincial and Campus regulations pertaining to waste, air, solid waste, hazardous waste, sanitary waste, sediment and noise pollution.

.2 Protection of natural resources: Preserve the natural resources within the project boundaries and outside the limits of permanent work performed under this Contract in their existing condition or restore to an equivalent or improved condition upon completion of the Work.

.1 Confine demolition and construction activities to areas defined by public roads, easements, and work area limits indicated on the Drawings.

.1 Temporary construction: Remove indications of temporary construction facilities, such as haul roads, work areas, structures, stockpiles of excess or waste materials, and other vestiges of construction as directed by Project Manager.

.2 Water resources: Comply with applicable regulations concerning the direct or indirect discharge of pollutants to the underground and natural waters.

.1 Oily substances: Prevent oily or other hazardous substances from entering the ground, drainage areas, or local bodies of water in such quantities as to affect normal use, aesthetics, or produce a measurable ecological impact on the area. Store and service construction equipment at areas designated for collection of oil wastes.

.2 Storm water management procedures should be followed during landscape design and the construction phase, see at http://www.sfu.ca/fs/planning/stormwater-management-strategy.html

.3 Land resources: Prior to construction, identify all land resources to be preserved within the work area. Do not remove, cut deface, injure, or destroy land resources including trees, shrubs, vines, grasses, top soil, and land forms without permission from the Project Manager.

.1 Erodible soils: Plan and conduct earthwork to minimize the duration of exposure of unprotected soils. Clear areas in reasonably sized increments only as needed to use the areas developed. Immediately protect side slopes and back slopes upon completion of rough grading.

.4 Erosion and sedimentation control: Construct or install temporary and permanent erosion and sedimentation control features as required to meet the City of Burnaby’s most up to date Sediment Control Measures and Information document.
.5 Dust control, air pollution, and odor control: Prevent creation of dust, air pollution and odors.

.1 Use water sprinkling, temporary enclosures, and other appropriate methods to limit dust and dirt rising and scattering in air to lowest practical level. Do not use water when it may create hazardous or other adverse conditions such as flooding and pollution.

.2 For all projects including exterior work, a Dust Control Plan must be submitted to SFU Facilities.

.3 Store volatile liquids, including fuels and solvents, in closed containers.

.4 Properly maintain equipment to reduce gaseous pollutant emissions.

.6 Noise Control: Perform demolition and construction operations to minimize noise. Perform noise producing work in less sensitive hours of the day or week as directed by the SFU Facilities. Noise pollution should not be so severe as to affect cause discomfort to those in the vicinity. For full noise control requirements, refer to Division 01 Section 01 14 00 Work Restrictions, as well as City of Burnaby Noise or Sound Abatement Bylaw.

.7 Disposal operations:

.1 Promptly and legally transport and dispose of removed and demolished items and waste materials that are not identified to be recycled or reused.

.2 Do not burn, bury or otherwise dispose of rubbish and waste materials on project site.

1.2. FIRES

.1 Fires and burning of rubbish on SFU property is not permitted.

1.3. CONSTRUCTION SITE WASTES

.1 Do not bury rubbish and waste materials on site unless approved by Engineer.

.2 Do not dispose of waste or volatile materials, such as mineral spirits, chemicals, oil or paint thinner into waterways, storm or sanitary sewers.

.3 For general waste management and recycling requirements, refer to Division 01 Section 01 74 19 Construction Waste Management and Disposal.

1.4. 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 local authority requirements.

1.5.  SITE CLEARING AND PLANT PROTECTION

.1 Protect trees and plants on site and adjacent properties where indicated.

.2 Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage. Avoid unnecessary traffic, dumping and storage of materials over root zones.

.3 Minimize the stripping of topsoil and vegetation.

.4 Restrict tree removals to areas indicated or designated by Engineer.

1.6.  WORK ADJACENT TO WATERWAYS

.1 Do not operate construction equipment in waterways.

.2 Do not use waterway beds for borrow material [without Engineer's approval].

.3 Do not dump excavated fill, waste material or debris in waterways.

.4 Design and construct temporary crossings to minimize erosion to waterways.

.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 under water or within 100 m of indicated spawning beds.

1.7.  POLLUTION CONTROL

.1 Maintain temporary erosion and pollution control features installed under this contract.

.2 Control emissions from equipment and plant according to 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.

***END OF SECTION***