

Solicitation No. EQ447-180692/A

Project No. EQ447- 180692 Remediation/Disposal of Soil

Specification Addenda

1. Section 31 00 01: Backfilling and Grading

- a) Add to the end of the paragraph of Subsection 1.2.1 (Measurement Procedures):

“Compaction testing is considered incidental to the work and will not be measured separately for payment.”

- b) Add to the end of the paragraph of Subsection 1.2.2 (Measurement Procedures):

“Compaction testing is considered incidental to the work and will not be measured separately for payment.”

- c) Remove from Subsection 3.4.1 (Field Quality Control)

“Testing of materials and compaction of backfill and fill will be carried out by testing laboratory designated by Departmental Representative.”

and replace with:

“Testing of materials and compaction of backfill and fill will be carried out by a qualified testing laboratory designated/engaged by the Bidder and approved by the Departmental Representative.”

- d) Remove the Add to 3.4.3 the initial sentence as follows:

“Not later than 48 hours before backfilling or filling with approved material, notify Departmental Representative so that compaction tests can be carried out by designated testing agency.”

And Replace with:

Departmental Representative may conduct additional compaction testing to verify adequate compaction of backfill and fill upon completion of Work. If the Departmental Representative tests or the tests conducted by the Bidder’s geotechnical laboratory reveal that the work does not comply with the contract requirements, the Bidder shall correct the work and pay for tests and inspections required by Departmental Representative on corrected work. The Bidder must re-compact the Site and conduct additional geotechnical testing at no additional cost to Departmental Representative until the contract requirements are met as demonstrated by the test reports.

2. Section 31 23 19: Dewatering, Water Treatment and Water and Wastewater Storage

- a) Remove from Subsection 1.8.1 (Overview of Groundwater Management)

“Dewatering of the excavation shall be completed via 66 well points positioned around the perimeter of the excavation as shown in Drawing C-06. Groundwater shall then be pumped to temporary aboveground storage tanks.”

and replace with:

"Dewatering of the excavation shall be completed via **well points** positioned around the perimeter of the excavation as represented in Drawing C-06. Groundwater shall then be pumped to temporary aboveground storage tanks."

b) Remove from Subsection 3.2.2.1 (Dewatering):

"Install dewatering well points and pumps at locations indicated to maintain groundwater levels over the entire excavation **a minimum of 1 m below the excavation grade** (bedrock at approximately 4 m below ground surface)."

and replace with:

"Install dewatering well points and pumps at locations indicated to maintain groundwater levels over the entire excavation **to bedrock** (bedrock at approximately 4 m below ground surface)."

c) Within in Section 31 23 19, replace "filter" with "treat" as appropriate. See below for details.

i. Remove from in Subsection 1.5.1.2 (Water Treatment Facility):

"Design and Operating Criteria: water treatment system capable of **filtering** water generated from dewatering excavations and work areas to meet discharge requirements of authority having jurisdiction, capable of removing volatile organic compounds, oil, suspended solids, particulates, and filter water through 5-micron particulate filter prior to discharge. Discharge criteria are Provincial Water Quality Objectives. The system should have sufficient treatment capacity to fully treat the groundwater extracted during the dewatering of the excavation zone and manage wash water generated from vehicle and equipment decontamination. Based on hydrogeological analysis of the site conditions, the capacity of the treatment system should be on the order of 100,000 litres/day. Detailed specifications of the dewatering and treatment system are defined in Section 31 23 19."

and replace with:

"Design and Operating Criteria: water treatment system capable of **treating** water generated from dewatering excavations and work areas to meet discharge requirements of authority having jurisdiction, capable of removing volatile organic compounds, oil, suspended solids, particulates, and filter water through 5-micron particulate filter prior to discharge. Discharge criteria are Provincial Water Quality Objectives. The system should have sufficient treatment capacity to fully treat the groundwater extracted during the dewatering of the excavation zone and manage wash water generated from vehicle and equipment decontamination. Based on hydrogeological analysis of the site conditions, the capacity of the treatment system should be on the order of 100,000 litres/day. Detailed specifications of the dewatering and treatment system are defined in Section 31 23 19."

ii. Remove from in Subsection 1.5.1.3 (Water Treatment Facility):

"Provide piping and pumps to transfer liquid/solid mixtures generated by dewatering operations which require water **filtering** to water **filtering** plant."

and replace with:

"Provide piping and pumps to transfer liquid/solid mixtures generated by dewatering operations which require water **treatment** to water **treatment** plant."

iii. Remove from in Subsection 1.5.2.1 (Water Treatment Facility):

"Provide labour, materials, and equipment and do work required for setup and construction of water **filtering** plant."

and replace with:

"Provide labour, materials, and equipment and do work required for setup and construction of water **treatment** plant."

iv. Remove from in Subsection 1.5.2.4 (Water Treatment Facility):

"Install piping in accordance with manufacturer's instructions and test for leakage using potable water prior to commencing dewatering and **filtering** operations."

and replace with:

"Install piping in accordance with manufacturer's instructions and test for leakage using potable water prior to commencing dewatering and **treatment** operations."

v. Remove from in Subsection 1.5.5.1 (Water Treatment Facility):

"Decontaminate and remove salvageable components of water treatment system including water filtering system, pumps, piping, and electrical equipment."

and replace with:

"Decontaminate and remove salvageable components of water treatment system including water filtering system, **treatment units**, pumps, piping, and electrical equipment."