# GEneral

## Summary

### This Section includes the provision of the Water Control Plan, Dewatering and Discharge Plan and the Groundwater Monitoring Program.

## Related Sections

#### Section 01060 – Regulatory Requirements

#### Section 01300 – Submittals

#### Section 01561 – Environmental Protection

#### Section 02240 – Dewatering - General

#### Section 02242 – Supply Install and Subsequently Remove Dewatering System

#### Section 02243 – Operate and Maintain Dewatering System

#### Section 02244 – Retain Specialty Subcontractor To Monitor Existing Groundwater Levels and Discharge Water Quality in Accordance With PTTW

#### Section 02245 – Restoration Works Associated With Dewatering Activities

## References

### Conservation Authorities Act

#### R.R.O. 1990 Reg. 112: Conservation Areas- Lake Simcoe Region

#### R.R.O. 1990 Reg. 119: Conservation Areas- Metropolitan Toronto and Region

### Fisheries Act (RSC. 1985, c. F14)

### Ontario Endangered Species Act 2007

### Ontario Ministry of the Environment and Climate Change

#### Guide to Permit to Take Water

### Ontario Provincial Standards for Roads and Public Works (OPSS)

#### OPSS.MUNI 517 (Apr 2017) Dewatering of Pipeline, Utility and Associated Structure Excavation

#### OPSS.MUNI 518 (Apr 2017) Control of Water From Dewatering Operations

### Ontario Water Resources Act R.S.O. 1990 c. O.40

#### O. Reg. 387/04 Water Taking and Transfer

#### R.R.O. 1990, Reg. 903: Wells

### Regional Municipality of York

#### Bylaw 2011-56 Discharge of Sewage, Storm water and Land Drainage Bylaw (Amended 2014)

### City of Vaughan

#### Sewer User By-law 087-2016

#### Wastewater Rates and Service Fees By-Law 196-2019

### Species at Risk Act (S.C. 2002, c. 29)

# PRODUCTS (Not Used)

# EXECUTION

## Dewatering and Monitoring Plan

### Prior to the commencement of any dewatering, the Contractor and the Dewatering Subcontractor shall prepare and submit to the Consultant a detailed Dewatering and Monitoring Plan describing timing, methodologies, treatment, equipment to be used, locations, parameters, applicable criteria, contingency plans, reporting frequency and reporting roles that meet or exceed the criteria and conditions imposed by the MOECC’s PTTW and the TRCA permit.

## Dewatering Permit

### *[Note to Consultant – include TRCA Permit Number and Date and List conditions. A sample reference has been included for formatting purposes.]*Conditions of [TRCA] Permit No. [ ] dated [ ]:

### *[Note to Consultant- Make reference to appropriate condition in the Supplementary condtions]*

### The Dewatering and Monitoring Plan shall include, but not be limited to:

#### Proposed detailed dewatering methodology, schedule, equipment, method, standby equipment and power supply, including any lead times for any equipment to be used

#### Flow meters and data loggers for each dewatering and discharge location and for the final discharge piping at all dewatering and discharge locations

#### Location of generators and other noise producing equipment and the anticipated decibel levels, including any noise attenuation required and methods to be used to remain compliant to noise level thresholds from local noise by-law requirements and all other applicable local, provincial and federal standards

#### Relationship between dewatering equipment, new and existing structures, the excavation plan, and excavation shoring systems

#### Location of all dewatering discharge points

#### Location and dimensions of portable sedimentation tanks (if required), geotextile filter bags and straw or rock check dams

#### Details of screens, geotextile filter bags and other filter media to be employed

#### Location of the groundwater observation wells

#### Location of all piezometers and monitoring points

### Shop drawings are to bear the seal and signature of the Contractor’s engineer licensed in the province of Ontario.

#### These submittals are for record purposes only and will not be reviewed by the Consultant or the Region for adequacy

#### Submission of records for the dewatering and discharge rates at all locations.

### Any reports provided or referenced in the Contract Documents do not design a dewatering system, but provide an analysis of the geological and hydrogeological setting of the Site, as well as the expected rate of dewatering in order to obtain the desired drawdown. The most effective dewatering system to suit the prevalent ground conditions and the design of the dewatering operations are the sole responsibility of the Contractor.

### The Contractor shall determine the need for, designing and implementing any specific dewatering scheme to maintain the stability of excavations and ensure they are free of water. Excavations shall be monitored to ensure they remain stable and free of water.

### The Contractor shall also comply with any other requirements of the Ministry of Natural Resources and Forestry (MNRF) under the Endangered Species Act, as well as with the requirements of The Regional Municipality of York Sewer Use By-Law, By-Law No. 2011-56, and requirements of the Toronto and Region Conservation Authority (TRCA) and Department of Fisheries and Oceans (DFO). *[Consultant to amend list of applicable authorities as necessary]*

## Measurement and Payment

### All costs associated with the work of this Section shall be included in the price(s) for Item No. A2.02 in the Bid Form.

### The price for Item A2.02 in the Bid Form shall include full compensation for all labour, materials and equipment required to complete the work of this Section. Payment shall be made upon the Region’s approval of the completed Dewatering and Monitoring Plan submitted by the Contractor. The Contractor shall revise and modify the Dewatering and Monitoring Plan as directed by the Consultant at no additional cost.

**END OF SECTION**