

**East Site Proposed Employment Development**

**3260 - 9th Line, Town of Innisfil**

**Project No: 4842**

**DATE: November 2021**

**EROSION CONTROL CALCULATIONS**

**East Site - Tributary to Thornton Creek**

2021-11-06-Post-development 4-hr Chicago Storm X							
Schematic Hydrograph Results (instance) X							
Run: Run 01 Show All Runs							
Run	NHYD	DT [hr]	AREA [ha]	PKFW [m <sup>3</sup> /s]	TP [hr]	RV [mm]	DWF [m <sup>3</sup> /s]
Run 01	7	0.083	38.690	2.985	1.583	20.688	0.000

Results of 4 hr 25 mm Design Storm

Input:

Area = 38.69 ha  
R.V = 20.688 mm  
Draw Down Time = 48 hrs

Calculations:

Storage = 8,004 m<sup>3</sup>  
Average Outflow = 0.046 m<sup>3</sup>/s  
Peak Outflow = 0.069 m<sup>3</sup>/s

Note: Estimated at 1.5 times Average Outflow