Project: Proposed Flamborough Quarry Pump Test
Date: Sunday July 27, 2008 (Day 7 of Pump Test)

Hydrology Summary (Surface Water and Precipitation)

There was no rainfall on-site in the last 24 hours (i.e. 12 pm on Saturday July 26th, 2008 to 1 pm on Sunday July 27th, 2008).

The storm cell(s) that have passed through the upper reaches of Mountsberg Creek subwatershed (on Saturday July 26th), are still contributing to increased levels in the Mountsberg Reservoir upstream. This in turn continues to contribute to the discharge over the spillway into Mountsberg Creek, as observed at several stations downstream maintaining higher peak flow as summarized below.

The response in Mountsberg Creek continued to peak in the morning of July 27th, 2008 and have continued to rise as verified from the last download at approximately 8 am with a level of 283.584 masl. This level corresponds to a flow of approximately 1.395 m^3/s at Station SW-MC at the northwest corner of the site.

Water quality results at the creek stations on Day 7 were relatively consistent with results observed the previous 24 hrs (Days 6) of the pump test. However, the temperature in Seep 3a has increased back to a comparable temperature (16 to 17 ˚C) with Seep 5a, as observed in the past when groundwater input is not present. The water level in Seep 3a is continuing to drop. Conductivity levels are still lower in Tributary A to Mountsberg Creek than baseline measurements performed on Thursday July 17, 2008.