

Project: Proposed Flamborough Quarry Pump Test
Date: Saturday July 26, 2008 (Day 6 of Pump Test)

Hydrology Summary (Surface Water and Precipitation)

There was only a trace amount of rainfall on-site in the last 24 hours observed to be approximately 0.3 mm (i.e. a short event between approximately 9:40 am to 10:00 am on Saturday July 26th, 2008).

The storm cell(s) that have passed through the upper reaches of Mountsberg Creek subwatershed (on Thursday July 24th), 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 26th, 2008 and have continued to rise as verified from the last download at approximately 8 am with a level of 283.58 masl. This level corresponds to a flow of approximately 1.39 m³/s at Station SW-MC at the northwest corner of the site.

Water quality results at the creek stations on Day 6 were relatively consistent with results observed the previous 24 hrs (Days 5) of the pump test. Conductivity levels are still lower than baseline measurements performed on Thursday July 17, 2008, as is typical of a rainfall-runoff response period.