

Flood risk assessment.

An application for Ordinary Water Course consent has been submitted to Conwy Council, ref CRN43604.

I anticipate that there is no flooding risk because:

- The weirs and screens at the extraction point will only cause a small increase in level (not exceeding 17 cm) in the plunge pool below the main screen, with (effectively) a new little waterfall coming off the downstream weir. This pool is only 2 m long; downstream from the weir there will be no alteration to the stream bed. The overall effect is to split the existing 48 cm waterfall into two smaller falls, one after the other.
- The stream is fast-flowing with a drop of 1.7 m over the 25 m stretch including the weirs; the effect of this small increase in level between the two falls will be insignificant.
- The tail-race flow at the turbine hut returns to the stream only the water that has been extracted from it higher up. It does not raise water levels relative to the original stream.

