

**Brief: Tweed Shire Council Reservoir Destratification & Downstream River Management**

**Client: Tweed Shire Council**

**Storages: Clarrie Hall Dam and Tweed River**

**Location: Far North NSW**

Clarrie Hall Dam has an open discharge to Doon Doon Creek. This creek is a tributary of the Tweed River, the main source water for the Tweed Shire region. Water from Clarrie Hall is released into the Tweed and is then 'pulled out' at the Brae Park pumping station some 10km downstream for treatment at the Water treatment plant.



Since the installation of the WEARS system there has been a extreme improvement in the river flow water quality downstream of the Doon Doon creek entry point, due to the improved discharge water. Water from Clarrie Hall dam prior to the systems installation was anoxic, cold and high in manganese concentrations. However is now regularly released to mix and improve the downstream water quality of the river.