

Hervey Bay's WATER STORAGES

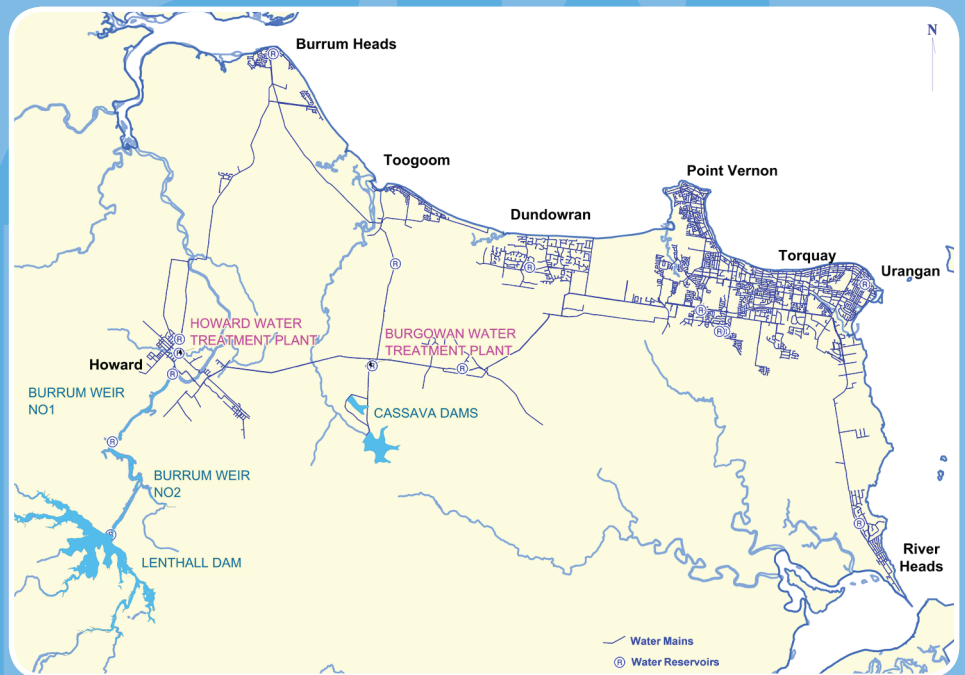


BURRUM RIVER AND CASSAVA LAGOONS

For the Hervey Bay supply, Wide Bay Water Corporation takes water from two separate catchments, the Burrum River and Cassava lagoons.

These two catchments are located approximately 40km west south-west of Hervey Bay. Lake Lenthall and the freshwater section of the upper Burrum River have a catchment area of approximately 709km². The Burrum River catchment consists of the Seaview, Clifton and Robinson Ranges (200 - 300m in height) in the west and Wongi State Forest in the east. Lake Lenthall occurs at the confluence of Logbridge, Doongul, Harwood, Duckinwilla and Woolmer creeks.

Richmond Creek enters the Burrum River below Lake Lenthall and in the pondage of Burrum Weir No.2. There are no major creeks discharging to the Burrum River in the pondage of Burrum Weir No.1.



Wide Bay Water Corporation's Water Supply Scheme

The Cassava lagoon catchment covers a much smaller area of approximately 30km². The lagoons were initially constructed to irrigate a trial casava plantation. They are located at the headwaters of Beelbi Creek which discharges to Hervey Bay at Toogoom.

The topography of the Cassava and Burrum River catchments is relatively low and flat, which is consistent with coastal catchments of this region.

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WATER INFRASTRUCTURE

Water is taken from storages and transferred to the water supply network as detailed in Wide Bay Water Corporation's Supply Scheme diagram (previous page).

Water supply infrastructure on the Burrum River includes Burrum Weir No.1, Burrum Weir No.2 and Lake Lenthall. The Cassava lagoons provide additional raw water as a supplement to that sourced from the Burrum River.

CLIMATOLOGY

The catchments of Lake Lenthall and the Cassava lagoons are located in the subtropics of Queensland.

Temperatures are mild with average maximum/minimum temperatures in the summer months of 30°C/19°C and the winter months of 23°C/10°C.

Rainfall patterns for the catchment are typical of a subtropical environment with highest rainfall falling in the summer months.

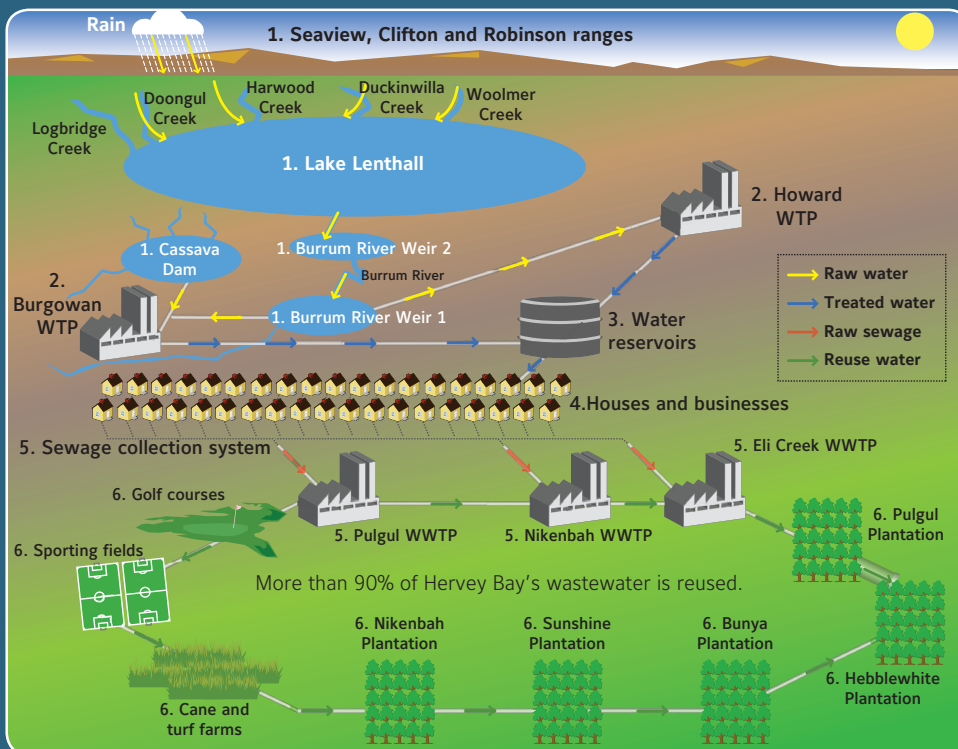
WATER QUALITY

The quality of water in the storages is impacted by land use and other activities that occur in the catchment.

WBWC monitors water quality in each of the water supply storages. The monitoring

program has been established to inform the water treatment process and to meet operating licence conditions. Monitoring includes water quality, quantity and flow, in addition to bank stability and blue-green algae monitoring. Historically, the catchments display relatively high-quality water for subtropical storages. Stratification typically occurs during the summer months with the thermocline (layers of varying temperature) breaking down during early Autumn.

HERVEY BAY WATER CYCLE



1. Water collected from the Burrum River and Cassava catchments is stored in Lake Lenthall, Burrum River Weir 1 and 2, and the Cassava Lagoons.
2. Water is pumped from storage to treatment plants to make it safe for drinking.
3. Treated water is pumped into water reservoirs for storage.
4. Treated water is supplied to residences and businesses.
5. Wastewater is collected and treated to Class B Recycled Water.
6. Recycled water is piped into farms and tree plantations.