Waterway Health Report Card 2017 Pūharakekenui/Styx River catchment

Christchurch city has more than 200 kilometres of waterways within five main river catchments - Ōtākaro/Avon, Ōtūkaikino, Pūharakekenui/Styx, Ōpāwaho/Heathcote and Huritini/Halswell. We assess the health of each catchment, testing water and sediment quality and monitoring habitat, algae, plants, insects and fish.



Source Harewood **Report score** С

24 kilometres

Mouth

Te Riu o Te Aika Kawa/ **Brooklands Lagoon**

Length

1-19 metres above sea level

Elevation

Land use Semi-rural (parks, reserves, lifestyle blocks and agriculture) and urban (residential, commercial and industrial)

Assessing waterway health

We measure the health of each waterway using a Water Quality Index (WQI), a Sediment Quality Index (SQI) and the Quantitative Macroinvertebrate Community Index (QMCI).

See more at ccc.govt.nz/environment/water/waterways/waterway-monitoring

Water Quality Index (WQI) Score

We use a WQI specific to Christchurch waterways. Each monitoring site is scored against guideline levels for copper, zinc, pH, suspended solids, dissolved oxygen, temperature, ammonia, nitrogen, phosphorous, biochemical oxygen demand and Escherichia coli. The median across the catchment is graded:

A = 90 – 100 (very good) B = 80 – 89.9 (good) C = 70 – 79.9 (fair) D = 40 - 69.99 (poor) E = < 39.9 (very poor)

Pūharakekenui/Styx catchment score: C

Sediment Quality Index (SQI) Score

We use a SQI specific to instream sediment of Christchurch waterways. This index is scored against guideline levels for copper, lead, zinc and polycyclic aromatic hydrocarbons. The median across the catchment is graded: A = 90 – 100 (very good) B = 80 - 89.9 (good)C = 70 – 79.9 (fair) D = 40 - 69.99 (poor) E = < 39.9 (very poor) Pūharakekenui/Styx catchment score: C

The Pūharakekenui/Styx catchment overall score is C

Contact us

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Quantitative Macroinvertebrate Community Index (QMCI) Score

The QMCI assesses the macroinvertebrate species (organisms with no spine) present and their tolerance to pollution, to determine a waterway's likely water quality. The index values are converted to scores for grading the catchment: A = > 5.99 (excellent; clean water) B = 5.00 - 5.99 (good; likely mild pollution) C = 4.00 – 4.99 (fair; likely moderate pollution) D = < 4.00 (poor; likely severe pollution)

Pūharakekenui/Styx catchment score: C

