

MAUNGAKIEKIE-TĀMAKI REPORTING AREA

Maungakiekie-Tāmaki Local Board

STATE OF AUCKLAND FRESHWATER REPORT CARD

JULY 2014

AREA
GRADE

F

QUICK FACTS

THE REPORTING
AREA COVERS
36KM²
REPRESENTING 0.7%
OF THE REGION

THE LAND COVER IS
MAINLY URBAN
(96%)
WITH SMALL POCKETS OF
NATIVE VEGETATION

THE EXTENT OF
IMPERVIOUS SURFACE
(HARD SURFACES) IS VERY HIGH
(58%) WHEN COMPARED
WITH THE REGIONAL
AVERAGE OF 9%

WHAT MAKES UP THIS GRADE?

OVERALL GRADE



WATER QUALITY



FLOW PATTERNS



NUTRIENT CYCLING



HABITAT QUALITY



BIODIVERSITY



The overall grade is made up of five indicators:

Water quality: Water samples are tested for temperature, oxygen concentration, turbidity and the levels of pH, ammonia and nutrients (nitrogen and phosphorus). The results of this testing are compared against guidelines for Auckland to produce a water quality index.

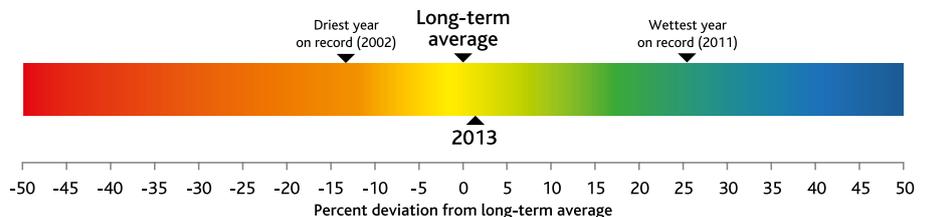
Flow patterns: This involves monitoring the hydrologic connectivity of the river to upstream and downstream reaches and the floodplain using the Stream Ecological Valuation (SEV), which is a method of assessing the ecological health of our rivers.

Nutrient cycling: This involves monitoring the inputs and processing of minerals, particulates and contaminants using the SEV biogeochemical functions.

Habitat quality: This involves monitoring the diversity and quality of habitats using the SEV habitat provision functions.

Biodiversity: Field assessments and samples are collected to assess the type and amount of native plants and animals using the SEV biodiversity functions.

Annual Rainfall 2013



Total rainfall in 2013 (1259 mm) was 1.2% more than the long term average (1244 mm). There are 12.4 years of rainfall record from the Bassant reserve rain gauge.

MAUNGAKIEKIE-TĀMAKI MONITORING SITES



MONITORING BACKGROUND AND INTERPRETATION

Auckland Council's State of the Environment (SoE) monitoring programme has been building a record of Auckland's environment for more than 25 years. This information is critical to the effective management of Auckland's natural environment, after all, you can't manage what you don't monitor.

The monitoring programme shows there is a strong relationship between the health of rivers and the type of land cover in the surrounding catchment. Rivers that drain through forested catchments (particularly native forests) typically have excellent

water quality and ecology, while rivers that drain from urban catchments typically have poor water quality and ecology.

The health of Maungakiekie-Tāmaki's rivers is considered to be impaired. Urban development has led to a high level of impervious surface in the area, which prevents rainfall from soaking into the ground. This has follow-on effects for rivers in the area leading to high water temperatures, changes to the natural flow patterns and increased pollution from contaminated stormwater.

WAI CARE MAUNGAKIEKIE-TĀMAKI

Wai Care is a water quality education, monitoring and action programme managed by Auckland Council, for schools and community groups in the Auckland region.

The programme aims to educate people about freshwater issues and encourage and facilitate action in the local community, from water quality monitoring to streamside planting and litter clean-ups.

The following table shows achievements of the Wai Care Programme in Maungakiekie-Tāmaki during the 2013/2014 financial year.

Achievement	Total Maungakiekie-Tāmaki 2013/2014	Total Auckland 2013/2014
Active groups	3	138
Sites monitored	1	142
Monitoring sessions	12	246
Education sessions	0	198
Students involved in education	0	7704
Action events	11	82
People involved in action	448	2274
Native trees planted	1500	16,140



Photo: Sign erected along the Omaru River as part of the KATO project

Highlights

Wai Care Central team was involved in the Ko Au Te Awa, I am the River (KATA) initiative at Omaru River in Glen Innes during 2013/2014. The project focuses on raising awareness of the degraded state of the River, as well as creating a spiritual connection and sense of belonging, and building respect for the awa (river). By restoring the river we will restore our relationships with each other and our environment.

The key partners in the project are Auckland Council, Mad Ave Studios, Maungakiekie –Tāmaki Local Board and Youth Panel, ROOTS, and Enviro Schools.

After running four successful community events in July 2013 to raise the profile of the project, the Wai Care team submitted an entry into the Auckland Council Consultation and Engagement Awards 2013 and received an award under the "Empower" category.

For more information on Wai Care, or to view site data for your area, go to www.waicare.org.nz or call 09 3010101 and ask for Wai Care.

FIND OUT MORE

This report card is part of a series prepared by the Auckland Council's Research, Investigations and Monitoring Unit, which undertakes monitoring and research to provide information and evidence to inform the council's activities and reporting. Auckland's environment must be healthy and resilient in order

to support life and lifestyle. More report cards can be found at: aucklandcouncil.govt.nz/stateofauckland. The report card series includes reporting on freshwater, terrestrial, marine, air, soil, capacity for growth, demographics and quality of life.

GET INVOLVED

Auckland Council provides more than 20 environmental programmes across the region for you to get involved with and improve your local environment.

► For more information: e-mail monitoring@aucklandcouncil.govt.nz or call us on 09 301 0101.