



Waterways Local Update 2017-18

Melbourne Water's work to enhance waterways and build resilience to flooding in the **City of Maroondah**.



10.5 KM
WEED CONTROL
ALONG WATERWAYS



79
FLOOD INFORMATION
REQUESTS REVIEWED



TEN
VOLUNTEERS PROVIDED
RAINFALL DATA

Melbourne Water plays an active role in the daily lives of Melburnians. We contribute to Melbourne's famous lifestyle by protecting and enhancing over 25,000 km of rivers and creeks, and more than 479 stormwater treatment systems and wetlands in the Port Phillip and Westernport region.

The Waterways and Drainage Charge, which is paid by property owners and collected by retail water companies on our behalf, funds this work. It is an important part of ensuring a thriving natural environment.

Melbourne Water cares for many waterways. Some in your local area include:

- Dandenong Creek
- Brushy Creek
- Mullum Mullum Creek

Healthy waterways

Maintenance and new projects

We are the caretakers of waterway health in the Port Phillip and Westernport region. Each year, we create and maintain healthy waterways by removing litter, debris and excess sediment. We remove and spray weeds, cut grass and plant native trees and shrubs.

What we have done

Why

10.5 km

Weed control

Introduced and noxious weeds can choke waterways and take over from plants that provide healthy habitats for birds and animals.

36.7 m³

Sediment, silt, litter, debris removal

Silt, sediment, litter and debris is removed for drainage and flood protection, and to prevent pollution building up in our waterways and wetlands. An excess of these can impact the habitat for platypus, fish and other animals, as well as native plants.

Carried out works to control weeds e.g. desert ash, remove woody weeds and plant native grasses, shrubs and trees along Dandenong Creek

The work aims to improve vegetation, provide habitat for frogs, birds and animals, prevent erosion and improve water quality in our waterways.

Stormwater

Rainwater, stormwater and recycled water are valuable resources. We work closely with Council and local communities to protect our rivers, creeks and bays, provide alternative water sources and improve the stormwater that flows into local waterways by integrating stormwater into the urban landscape.

What we have done

Why

Through the Clearwater program, we supported Council to take a whole-of-water cycle approach by providing a wide range of tools and resources, and opportunities to participate in a variety of activities

This work helps to improve skills, increase knowledge and foster better networks across councils to change the way we manage water for healthy, connected communities.

Living Rivers provided funding to design a bioretention system in Sherbrook Park

Better understanding of best practice stormwater management improves stormwater quality and park amenity, and reduces stormwater quantity to enhance waterway and bay health.

Living Rivers provided funding to pilot a partnership approach of works and education at the Mullum Creek industrial area

Better understanding of best practice stormwater management improves stormwater quality, and reduces stormwater quantity and flood risk to enhance the health of Mullum Mullum Creek.



The Living Rivers program offers councils funding, expertise and guidance to build their understanding, skills and commitment to manage stormwater within an integrated water management approach. We contributed \$62,500 to projects in your area.

Find out more at melbournewater.com.au/livingrivers

Environmental water

Working with government agencies, councils, industries, landowners and the community ensures we provide the allocated water needed in rivers to maintain healthy natural ecosystems.

What we have done

Worked with the Department of Environment, Land, Water and Planning, and Southern Rural Water on environmental outcomes for river systems in Integrated Water Management forums

Why

Advocating for environmental outcomes for river systems and tributaries improves the health of waterways.



Monitoring and research

We improve local waterways by undertaking regular and extensive monitoring, investigations and research to better understand them.

What we have done

Monthly monitoring of water quality at one site within your area. These tests measure:

- water temperature
- dissolved oxygen
- salinity (conductivity)
- pH level
- nutrients (nitrate, nitrite, ammonia, Kjeldahl nitrogen, soluble reactive phosphorus and total phosphorus)
- indicators of faecal contamination (*E. coli*)
- metals (arsenic, cadmium, chromium, copper, lead, nickel and zinc)

Why

Our water quality monitoring program is designed to assess broad-scale, long-term trends in water quality (typically over 8 - 10 years). We use this data to help identify pollution sources and inform the community about local water quality.

Planning for future development

We ensure local waterways aren't threatened by growing communities and that new developments do not increase flood risk through planning, and by providing advice to assist future development.

What we have done

Why

91 referrals for land subdivisions reviewed

Ensure proposed land subdivisions meet current standards for drainage and stormwater quality.

39 development applications reviewed

Ensure that growing communities don't contribute to an increase in flood risk.

79 flood information requests reviewed

Provide flood information to property owners and people interested in purchasing or redeveloping property.

2 applications for works near Melbourne Water assets and works such as bridges, shared pathways and jetties reviewed

Ensure waterways, and the plants and animals that live there, are protected from the potential impacts of building works.

7 stormwater connection applications reviewed

Ensure waterways and the plants and animals that live there, are protected from the potential impacts of construction works.



Flood protection

While floods are natural and we can't stop them all from occurring, we can build our resilience to them and minimise the damage they cause to people, places and communities.

We manage the regional drainage system and work with Council, the Victorian State Emergency Service, the Bureau of Meteorology, property owners and developers to make sure flood information is up to date. We provide flood warning services, prepare flood response plans, and identify and construct new flood protection projects in areas with the greatest need.

What we have done

Why

Continued collecting hydrological data

Data is used to analyse flood warning during emergency situations, as well as for such things as development referrals and projects to reduce the risk of flood.

Collaborated with stakeholders to update flood information

Updating flood modelling for the municipality supports planning applications and appropriate development.

Undertook a flood mitigation study on the Ringwood Lake main drain

The study progresses flood mitigation works for the drain and helps decrease flood risk for residents in Ringwood.



10 volunteers in your area provide us with rainfall data by recording information from a rain gauge in their backyard. These figures and the data from our automated gauges provides us with valuable rainfall information.

Find out more at melbournewater.com.au/communityrainreaders

Working with the community

Working collaboratively with community groups, volunteers, land managers and farmers allows for better management of local waterways, natural environments and regional drainage systems. It protects the environment and promotes conservation. If you'd like more information about funding opportunities, please call 131 722 or email river.health@melbournewater.com.au

Funding provided

Grant

For

\$3,531

Stream Frontage Management

Private land owners and managers for works that protect or enhance riverbanks, such as weed control, fencing and planting native trees.

\$2,640

Community Grants

Volunteer and community groups for works that protect or enhance riverbanks on public land, raise awareness, and provide training and education to protect local waterways.

We also worked with the local community on several events and initiatives throughout the year.

Who we worked with

What we did

First Friends of Dandenong Creek

Conducted Frog Census monitoring and hosted a Frog Census information session.

First Friends of Dandenong Creek

Hosted frog information sessions at the HE Parker Reserve planting day.

Port Phillip and Westernport Catchment Management Authority

City of Maroondah

Heathmont College

Supported teachers to participate in the River Detectives program, with the loan of a water quality kit and training to enable them to take students to test water quality in Dandenong Creek.

Heathmont College

Malborough Primary School

Undertook frog and macroinvertebrate activities with students for World Water Day as part of the Enhancing our Dandenong Creek project.

Maroondah and Knox councils

Friends of Blind Creek

Re-imagining Your Creek Advisory Group

Developed a concept for Blind Creek through a co-design approach that identifies a vision for the site, as part of the Re-imagining Your Creek Program to naturalise five kilometres of creeks across Melbourne that have been piped or channelled.

Community

State government and agencies



Our Space Your Place is an app that helps you find land managed by Melbourne Water to use for projects that benefit the wider community, such as community gardens. We encourage communities to apply to use the land. Find out more at

melbournewater.com.au/ourspaceyourplace or call 131 722.



Our citizen science programs harness the power of community through **Waterwatch** programs. They support people to collect and analyse data on platypus, frogs, waterbugs and water quality in their local river or creeks and advocate for waterways to help protect them and promote conservation.

Find out more at melbournewater.com.au/waterwatch or call 131 722.