



Waterways Local Update 2018-19

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



STORMWATER
TREATMENT & HARVESTING

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.



\$337,039
IN COMMUNITY
FUNDING

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.



STABILISED
BANKS OF MARIBYRNONG RIVER

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

- Monee Ponds Creek
- Steele Creek
- Maribyrnong River

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

15 sites Grass cutting

We cut grass along waterways and pipe tracks to manage flood and fire risks, protect assets and maintain areas for community use. The grass cutting program assists in managing stormwater quality and quantity, and maintaining healthy waterways.

9 sites Weed control

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

4 m³ Sediment, silt, litter, debris removal

Silt, sediment, litter and debris removal improves drainage and flood protection and reduces 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 bank stabilisation works with bluestone rocks to fortify and protect key sections along the Maribyrnong River, from Fisher Parade to Smithfield Road.

Repaired rock work to improve bank stability and integrity, address erosion concerns and protect against future bank instability along the river.

Stormwater

Rainwater and stormwater 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

Provided funding to construct a new stormwater treatment and harvesting system for irrigation at Rosehill Park

Creating a reliable source of water for irrigation through stormwater treatment and harvesting will reduce stormwater pollutants and the use of drinking water for irrigation, improve the facilities at the park and the health of waterways, and provide education on stormwater use.



The Clearwater program supports Council and water-sector organisations with sustainable water management and development. It offers knowledge-sharing, skills-development and network-building through a range of public and specialist training, guided tours and networking events.

Find out more at www.clearwatervic.com.au or call 131 722.



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 \$300,000 to projects in your area.

Find out more at melbournewater.com.au/livingrivers

Environmental water

We work with government agencies, councils, water authorities, landowners and the community to ensure that water that has been set aside for the environment is provided to rivers and wetlands, to keep environments healthy for plants and animals.

What we have done

Worked with the Department of Environment, Land, Water and Planning, and Southern Rural Water on environmental outcomes for waterways 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

Developed a Monitoring Evaluations, Reporting and Improvement (MERI) framework for the Healthy Waterways Strategy

Why

The framework outlines plans for monitoring key values and the environmental conditions that support them, as well as how we report on progress against objectives so we can evaluate in the middle and end of the strategy.

Monthly monitoring of water quality at three sites 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)

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.

Weekly monitoring at one site to better understand recreational health risks during the summer period

We use this data to identify any pollution sources and provide information to the community.

Planning for future development

As Melbourne grows to support our increasing population, we work with developers, councils, agencies and communities to ensure that new developments do not increase flooding risks or damage the environment.

What we have done

Why

106 referrals for land subdivisions reviewed

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

43 development applications reviewed

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

115 flood information requests reviewed

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

7 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.

5 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

Continued collecting hydrological data

Why

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.



Five 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

\$37,039

Grant

Community Grants

For

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.



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/community-and-education/use-our-land/land-community-projects or call **131 722**.

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

Who we worked with

Community

Environment groups

Interest groups

Traditional Owners

Council

East Keilor Scouts

Friends of Stony Creek

Council

Our Lady of the Nativity

Penleigh Essendon Grammar

St Bernards College

Community

Environmental groups

Monash, RMIT and Swinburne universities

Water retail companies

Government

Hume, Melbourne, Moonee Valley
and Moreland councils

What we did

Worked with more than 220 organisations across greater Melbourne to co-design the new Healthy Waterways Strategy, which provides the framework for protecting and enhancing the waterways of our region. The strategy prioritises improvements to waterway condition, recreation, community connection and amenity, including provision for 1888 kilometres of new vegetation canopy and improving access to 179 kilometres of waterways.

Delivered a Waterwatch waterbug activity.

Attended Council's citizen science expo and Moonee Valley Festival 2019 - Illuminate the River, to provide Waterwatch activities, information on the Waterbug Census and Frog Census programs and an activity on integrated water management.

Supported teachers to participate in the River Detectives program by providing training and resources to enable them to connect students with their local waterways.

Provided advice to construct a frog pond in the school.

Collaborated with 27 organisations towards the vision to transform the Moonee Ponds Creek into an iconic waterway, as part of the Chain of Ponds collaboration. We received funding to improve access and amenity along a section of the creek in Essendon and Brunswick West, supported the removal of around two tonnes of rubbish from the creek, and started to develop planning regulation, access and design tools and guidelines for the creek.



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.

