

# VECTOR-BORNE PATHOGENS, CLIMATE CHANGE AND WATER SENSITIVE URBAN DESIGN

Project outcomes contribute to the following UN Sustainable Development Goals:



For more information about the water industry's contribution to the UN SDGs see [Global Goals for Local Communities: Urban water advancing the UN Sustainable Development Goals](#)

## Background

Water utilities are getting involved in the design, construction and servicing of waterways, water features and water sensitive urban design to support the development of more liveable and sustainable communities. Utilities need to be aware of the risks from vector-borne pathogens such as the viruses transmitted by mosquitoes that need to be controlled in such developments.

The aim of this project was to gather current knowledge on vector-borne pathogens in Australia, and understand potential changes in disease threats in the face of climate change. The report also includes management strategies that may be applied by water utilities to minimise risks to public health. Draft fact sheets that can be used to provide consistent responses to customer/media queries about these pathogens will also be produced.

## Outcomes and Benefits

At the time of publishing, this report was the most definitive and complete collation of current understanding. The report includes context, mosquitoes as vectors of human diseases, changing patterns, threats and challenges, effects of weather and climate and information about elements of water sensitive urban design.



## Availability

This project was completed in December 2016. It was funded by the following WSAA members:

Barwon Water  
Coliban Water  
Gladstone Area water Board  
Hunter Water  
Logan City Council

Melbourne Water  
MidCoast Water  
Power and water  
Queensland Urban Utilities  
Seqwater

South East water  
Sydney Water  
TasWater  
Water Corporation  
WaterNSW

The full report is available for purchase to WSAA members only. Contact [info@wsaa.asn.au](mailto:info@wsaa.asn.au).