

# MUSICX: a new way for Integrated Water Cycle Management modelling

MUSICX brings together MUSIC, Australia's leading stormwater modelling tool with eWater Source, Australia's National Hydrological Modelling Platform. Giving water managers greater flexibility to model **water sensitive urban design options** and the ability to integrate catchment and river system models with small-scale urban water quantity and quality models, for fully integrated water cycle management.

MUSICX combines all MUSIC capability with additional Source functionality, to give users a range of enhanced features, including:

- Flexible software architecture - for easy adaptation and incorporating new knowledge and science.
- Additional Rainfall-Runoff modelling options.
- User plugins replace in-built algorithms for rainfall-runoff, pollutant generation, treatment function, demand function and more.
- Options to model additional pollutants.
- Improved Graphical User Interface for easy data input, tabular input/output, group edit and advanced graphics.
- Function Manager to support more complex model building.
- Powerful in-built Results Manager for data analysis and results interpretation.
- Connection with Source catchment and river system models, for full Integrated Water Resource Management.

## With MUSICX you can

- Model stormwater flows, detention and the potential for stormwater harvesting and reuse.
- Estimate diffuse sources of stormwater pollution and downstream water quality impacts.
- Model different WSUD treatment options.
- Model water balance and compare water quantity, quality and the cost-benefit of different treatment train scenarios.
- Plan and model entire stormwater systems.

## Dedicated Treatment Nodes

-  Bioretention
-  Buffer
-  Generic treatment
-  Infiltration system
-  Media filtration
-  Pond
-  Rainwater
-  Sedimentation basin
-  Detention basin
-  Swales
-  Wetlands

**music***link*

## Linking authorities and water modellers

MUSIC-link streamlines the development application approval process by allowing you to readily compare treatment options against specific Local Government guidelines.

## Sales, support & training

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