InSite Water Management

Integrated Water Management Software

The Integrated Water Management Challenge

In-Site water is an online integrated water management website toolkit designed for use on sites up to 1 ha in Australia that need quick and accurate water design answers.

This site is simple to use but provides robust stormwater design and engineering answers.

The equations in this site are based on Melbourne Water's Water Sensitive Urban Design (WSUD) Engineering Procedures (CSIRO Publishing 2005), the new ARR (Engineers Australia 2019), and Australian stormwater industry best practices.

InSite Water Overview

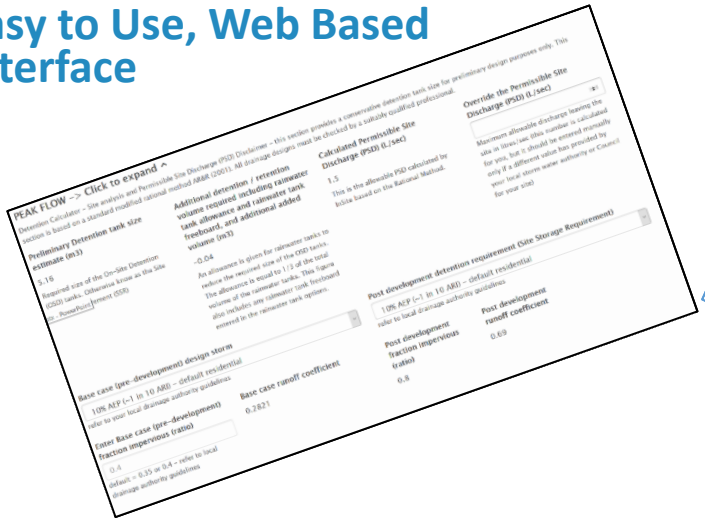
- **One report for both Council Planning and Building Legal Point of discharge Submissions**
- An **Integrated Water Management Tool**
- **In-Site will allow you to optimise:**
  - **detention or retention tank sizing**
  - **water treatments such as raingardens**
  - **water savings through efficiency**
  - **water tank sizing**

WATER EFFICIENCY **STORMWATER DESIGN**

InSite Water Common Users

- Designed for Single Lots, ideal for:
  - Civil and Drainage Engineers;
  - Planners, Developers and Builders;
  - Architects and Drafters; and
  - ESD Consultants;

Easy to Use, Web Based Interface



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Water Saving, Water Quality, Detention Calculator

InSite Water – Innovating Current Practice

- Key feature involves the **incorporation** of **detention tanks** and calculations for **stormwater drainage**.
- **Water efficiency modelling** indicating water use also demonstrated integrating WELS Rating standards.

Credibility and Assurance

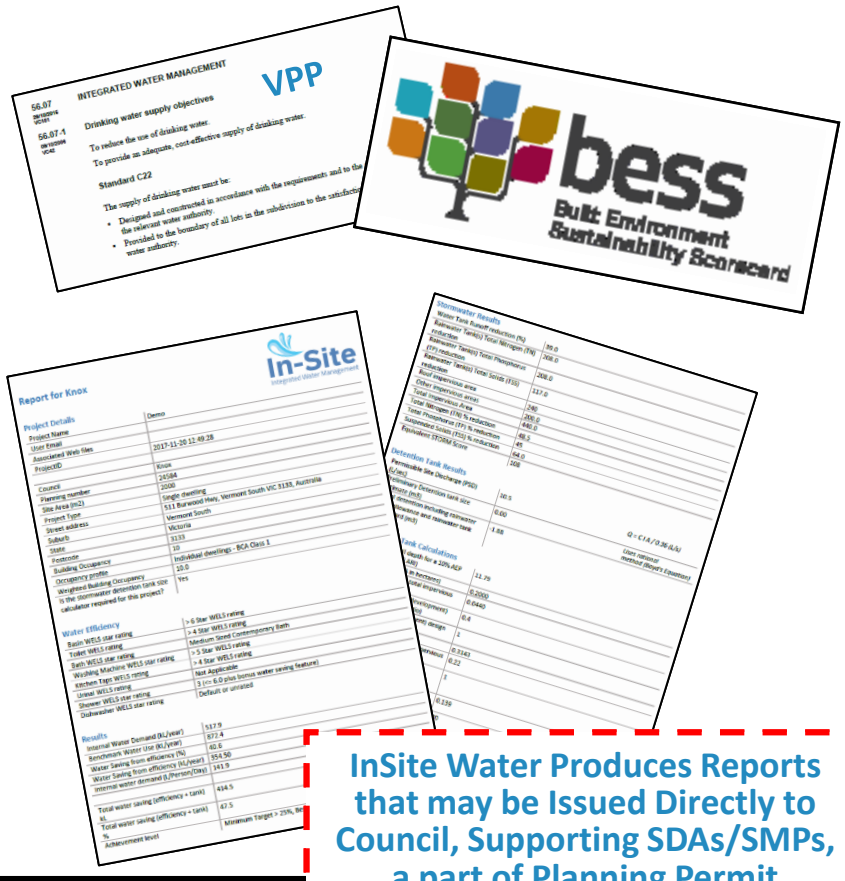
- Incorporates relevant **Australian Design Standards** and **Runoff Guides** into calculations coupled with industry **Best Practice Guidelines and Policies** from **Government Authorities**.
- Significant direct input and consultation from **leading experts and industries** including **Melbourne Water, Water Sensitive South Australia, Stormwater Australia, RMIT University** and **The University of South Australia**.

Addressing Councils' ESD and Stormwater Requirements

- Facilitates an efficient **Sustainable Design Assessment in the Planning Permit (SDAPP)** process between Developer and Council supporting **Sustainable Design Assessments (SDAs)** and **Sustainability Management Plans (SMPs)**.
- An alternative to **OSD4W** for detention tank sizing
- Works as a plugin to **BESS** for calculating Water and Stormwater Categories and Points.
- Aligns with **WSUD** and **Environmental** and **Environmentally Sustainable Development (ESD) Policies** in Councils' **Municipal Strategic Statements (MSS)** and **Local Planning Policies (LPP)**.

InSite Water Features Compared with Other Calculators

	InSite Water	STORM	OSD4W
Water Efficiency Targets			
Appliances and Fixtures (WELS Rating)	✓	✗	✗
Volume Reduction Targets			
Rainwater Tank Water Retention	✓	✓	✗
Pervious Paving Infiltration	✓	✗	✗
Water Treatment Targets			
Bioretention Basins/ Raingardens	✓	✓	✗
Green Roofs Tree pits	✓	✗	✗
Flow Reduction Targets			
Detention Tanks	✓	✗	✓



InSite Water Produces Reports that may be Issued Directly to Council, Supporting SDAs/SMPs, a part of Planning Permit Applications and RFIs

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RAINWATER TANK SIZING

Volume management reduces runoff volume, downstream flooding and helps restore stream flows. InSite water will help optimise the size of rainwater retention tanks and water infiltration pits.

DETENTION TANK SIZING

Stormwater flow reduction (detention) protects existing Council stormwater assets that are nearing capacity or already overcapacity. InSite Water will help you size stormwater detention tanks to meet Council requirements.

STORMWATER QUALITY

Improving stormwater runoff quality improves the health of our rivers and coastal areas. We help you design Water Sensitive Urban Design (WSUD) treatments for smaller sites including: raingardens, infiltration, bioswales, swales and green roofs

WATER EFFICIENCY

InSite Water helps you specify water efficiency for your project to save money on bills and to increase your project's drought resilience. This includes appropriate use of rainwater and water efficient appliances.

One tool. One portal. Best practice assured. Design and reporting built in.

Features and benefits

When you register to use InSite Water you can:

- ✓ Create and save as many projects as you like
- ✓ Work on projects, then save them to continue at a later date
- ✓ Use In-Site's calculations to help you work out your stormwater treatment types and sizes, and to size your stormwater detention and/or retention tanks, and optimise rainwater tanks.
- ✓ Calculate your equivalent 'STORM' score = 45% nitrogen reduction
- ✓ Get an immediate answer on whether your design meets 'best practice' standards
- ✓ Only pay for finished project reports that you need to compile, print and submit to a Council or other Responsible Authority
- ✓ Get free Reports for areas with subscribing Councils (InSite Water will let you know if your submission is to a subscribing Council)

About InSite Water

InSite provide a simple, clear, fast user interface that guides you through every part of Best Practice IWM (Integrated Water Management) design and compiles it all into a printable report at the end.

This project has been developed by Organica Engineering, with help and support from a range of organisations such as Manningham Council, Stormwater Victoria, Afflux Consulting, UniSA Melbourne Water and Water Sensitive SA.

Sustainable Design has transformed the development industry in recent years. Organica Engineering has played a central role in this transformation, allowing many organisations and major projects to improve their policies and processes, upgrade their buildings, and achieve Australian excellence or world leadership in their development projects.

Contact Us

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InSite Water is viewable at

www.insitewater.com.au