

# InSite Water Management

## Water Saving, Water Quality, Detention Calculator



### 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 2016), and Australian stormwater industry best practices.



### InSite Water Overview

- 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



### InSite Water Common Users

- Designed for Single Lots, ideal for:
  - Planners, Developers and Builders;
  - ESD Consultants and Drainage Engineers; and
  - Council Planning Submissions

### Easy to Use, Web Based Interface

The interface includes input fields for 'Preliminary Detention tank size (m<sup>3</sup>)', 'Additional detention / retention volume requirement including raingarden, water tank, and additional added (m<sup>3</sup>)', 'Calculated Permissible Site Discharge (PSD) (l/sec)', 'Water Tank Reliability %' (67.2), 'End use demand met by the rainwater tank. Target 50% or better - increase tank size or connected roof area to improve reliability', 'Rainwater Tank Overflow %' (20.2), and a 'Water tank performance over time' graph showing 'Tank Volume' vs 'Time = weeks'.

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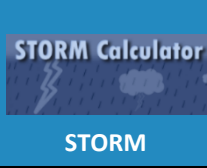

### InSite Water – Innovating Current Practice

- 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**.

### InSite Water Features Compared with Other Calculators

	 InSite Water	 STORM	 OSD4W
<b>Water Efficiency</b>			
Appliances and Fixtures (WELS Rating)	✓	✗	✗
<b>Volume Reduction</b>			
Rainwater Tank	✓	✓	✗
Infiltration	✓	✗	✗
<b>Water Treatment</b>			
Bioretention Basins/Raingardens	✓	✓	✗
<b>Flow Reduction</b>			
Detention Tanks	✓	✗	✓
<b>Asset Protection</b>			
Managed via Detention Tanks	✓	✗	✓

### Addressing Councils' ESD and SDA 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)**.
- Works as a plugin to **BESS** for calculating Water and Stormwater Categories and Points.
- Aligns with **WSUD** and **Environmentally Sustainable Development (ESD) Policies** in Councils' **Municipal Strategic Statements (MSS)** and **Local Planning Policies (LPP)**.



**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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Council Subscription (Ex GST)	Features	Subscription per week (Credit card)	Annual Subscription (Invoiced)	3 Year Subscription (10% discount)
Light	Council applicants can use the full features of the In-Site water tool. We will ensure that your Council's climate data and user defaults are set. We provide a short, customised user guide for Council to put on their website outlining any specific Council requirements. Users will pay a modest \$30 fee to print their final reports to submit to Council.	\$70	\$3490	\$9423
Standard	As per light but we add free reporting for users wanting to submit a report to your municipality. In addition, we can set up In-Site so that users can send reports to your contact officer directly from the tool.	\$125	\$6250	\$16875

**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
- ✓ 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

Feel free to contact us if you have any questions.

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Or call Ian's Mobile: 0409 559 269

**InSite Water is viewable at**

[www.insitewater.com.au](http://www.insitewater.com.au)