

## Summary

The Green Star Sewerage Calculator calculates the sewerage reduction due to greenwater or blackwater recycling in a building.

**Developers:** Green Building Council of Australia (GBCA)

Applicable sectors							Themes		
All Infrastructure	Buildings	Roads	Water	Energy	Transport	Construction	Materials	Ecology	Wastewater
							Potable Water	Carbon/GHG	Other
<b>Countries</b>	Australia					<b>Access</b>	Free to download		
<b>Compatibility with other tools</b>	This calculator is part of the excel-based Green Star rating tool, it obtains data from the Potable Water Calculator and is used in conjunction with <i>the Green Star Technical Manual</i> for the relevant building typology.					<b>Guidance for users</b>	The calculator is not accompanied by any additional guidelines.		
<b>Inputs &amp; outputs</b>	<p>The user is prompted to specify whether there is a greywater or blackwater recycling system installed. The user is also prompted to indicate what % of greywater collected is used for toilet flushing or irrigation (with no discharge to sewers), and what % of blackwater is collected and treated on site.</p> <p>The calculator outputs the estimated discharge to sewer per person per day (compared to the daily potable water consumption) and the number of Green Star points awarded.</p>					<b>Methodology</b>	<p>The calculator obtains data on water consumption per person per day due to water fittings, from the Potable Water Calculator.</p> <p>It then calculates the Sewerage Reduction due to greywater recycling (from showers or wash-hand basins) or blackwater recycling (from all sources including WCs) by estimating the daily discharge to sewers per person per day and comparing this to the daily water consumption.</p>		
						<b>Data intensity &amp; flexibility</b>	The data intensity is low as the calculator is brief and straightforward to use.		
<b>Database library</b>	The calculator does not require background data to carry out calculations.								

Note: "Free to download" does not necessarily imply that it is free for commercial use.