

## PW-R1: Water Efficiency

Intent	To develop and implement a comprehensive water strategy during the early stages of design to minimise the projects water consumption.
Credit Requirements	<p><b>GENERAL</b></p> <p>Demonstrate that the average landscape irrigation requirement for all public realm areas achieves the following:</p> <ul style="list-style-type: none"> <li>All public open spaces* in aggregate do not require more than 4.5 l/m<sup>2</sup>/day;</li> <li>All urban public open spaces** in aggregate do not require more than 2.5 l/m<sup>2</sup>/day; and</li> <li>All streetscapes in aggregate do not require more than 2.0 l/m<sup>2</sup>/day.</li> </ul> <p>* Public open spaces are programmed space, sports and recreation spaces and play facilities with &lt;70% hardscape cover.</p> <p>** Urban public open spaces are public open spaces with &gt;70% hardscape cover.</p> <p>Demonstrate that a water efficient irrigation system has been incorporated into all public realm landscaping, as follows:</p> <ul style="list-style-type: none"> <li>Eliminate all surface spray components (except in sports fields);</li> <li>Irrigate only during non-daylight hours (except if sub-surface);</li> <li>Provide irrigation zones, with independently controlled valves, segregated by plant water needs (hydrozones);</li> <li>Utilise mulch and/or soil amendment techniques to reduce evapotranspiration; and</li> <li>Use of TSE must be prioritised through coordination with the Department for Parks and Recreational Facilities (PRFD) and Abu Dhabi Sewerage Services Company (ADSSC).</li> </ul> <p><b>ADDITIONAL REQUIREMENT/CLARIFICATIONS</b></p> <p><b>Public Open Spaces</b></p> <p>Sports playing fields are excluded from the average landscape irrigation requirement calculation.</p>
Credit Submission: Design Rating	<ul style="list-style-type: none"> <li><input type="checkbox"/> Completed Public Realm Water Calculator;</li> <li><input type="checkbox"/> Map identifying site location and corresponding yearly average ETo value;</li> <li><input type="checkbox"/> Site plan illustrating landscape areas, highlighting areas of hardscape and softscape;</li> <li><input type="checkbox"/> Irrigation design plan(s), identifying each hydrozone and associated planting;</li> <li><input type="checkbox"/> Plant schedule for the development's landscape program that includes the following key data: <ul style="list-style-type: none"> <li>Plant names (common and botanic);</li> <li>Plant irrigation classification(s); and</li> <li>Annual water demand.</li> </ul> </li> <li><input type="checkbox"/> Narrative describing the water efficient irrigation strategy, including: <ul style="list-style-type: none"> <li>The projects irrigation approach, technology to be used, timing and anticipated irrigation efficiency; and</li> <li>The application of mulch and/or moisture retention approach for soil amendments including type, location, extent of application, and frequency of reapplication (if needed) to maintain effectiveness.</li> </ul> </li> </ul>
Credit Submission: Construction Rating	<ul style="list-style-type: none"> <li><input type="checkbox"/> Updated Public Realm Water Calculator;</li> <li><input type="checkbox"/> As-built site plan illustrating landscape areas, highlighting areas of hardscape and softscape;</li> <li><input type="checkbox"/> As-built irrigation design plan(s), identifying each hydrozone and associated</li> </ul>