Waterwise Aquatic Centre

Water Management Plan

**Business Name:**

**Please email your submission to:**

Water Efficiency Partnerships

[wepartnerships@watercorporation.com.au](https://nexus.watercorporation.com.au/otcsdav/nodes/77811696/WEpartnerships%40watercorporation.com.au)

This template has been created by Water Corporation to assist participants to review centre water consumption and complete a Water Management Plan required to be endorsed as a Waterwise Aquatic Centre

# Aquatic Centre Details

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| --- | --- |
| **AQUATIC CENTRE NAME**  Please show the business name as you would like it represented in marketing and communications materials |  |
| **Local Government Authority** (if relevant) |  |
| **Site address** |  |

|  |  |
| --- | --- |
| **CENTRE MANAGER** |  |
| **Name** |  |
| **Telephone** |  |
| **Mobile** |  |
| **Email** |  |

**WATER MANAGEMENT TEAM**

To ensure your WMP is a success it is a good idea to establish a Water Management Team. This team will be dedicated to reducing water use on site. Decide who your appropriate contact(s) are and involve key staff members who may influence or have an understanding of how water is used at your site. Staff on the Water Management Team should also complete online Waterwise Training.

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| **WATER MANAGER** |  |
| **Name** |  |
| **Telephone** |  |
| **Mobile** |  |
| **Email** |  |
| **WATER MANAGEMNENT TEAM** |  |
| **Name** |  |
| **Telephone** |  |
| **Mobile** |  |
| **Email** |  |

# Facilities Overview

Brief overview of the sight outlining the facilities at the property. Please provide photographs that can be used on our digital channels for promotional opportunities - high resolution image (1200px x 900px or higher).

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| Sample: The facilities include an outdoor 50-metre heated pool, deep-water exercise pool, leisure pool, indoor 25-metre pool, spa, outdoor shaded toddlers pool. |

# Water Use Information

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| **Billing Account number/s** |  |

Your annual water use is the amount of water currently used on site and can be found on your water use bills. This information helps determine what potential savings can be achieved in the timeframe identified and help you to measure performance.

If you do not have access to your bills contact the Water Corporation Call Centre 13 13 85 or email [WEpartnerships@watercorporation.com.au](https://nexus.watercorporation.com.au/otcsdav/nodes/77811696/WEpartnerships%40watercorporation.com.au)

**Historical Water Use – Scheme Water**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 2018/2019 | 2019/2020 | 2020/2021 | 2021/2022 | 2022/2023 |
| **Annual water use** (kL) |  |  |  |  |  |
| **Daily Water use** (kL/day) |  |  |  |  |  |

Please let us know if you have had any unexplained/ high water use in the past year that may affect your regular water use for this site e.g. site renovations, seasonal closures etc.

Also include any water efficiency projects undertaken in the past 12 to 36 months that have significantly impacted your water use, include a detailed description of those projects. eg. retrofit, refurbishments, repairs

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# Water Balance

A water balance is a measure of how much water is entering and leaving your aquatic centre. Working out a water balance for your centre will help you to understand where water is being used. This makes it easier to identify and prioritise your water saving opportunities.

This information can be estimated from a water audit or if you have sub-metering in place you can develop a more accurate water balance.

**Need help?** Refer to [Part 1 of the Sydney Water Best practice guidelines](http://www.sydneywater.com.au/web/groups/publicwebcontent/documents/document/zgrf/mdq1/~edisp/dd_045262.pdf) for water management in aquatic leisure centres for guidance on water use in a typical centre.

**Need more help?** A Waterwise Water Auditor can investigate where your water is going, and give you advice on making your water use more efficient. To find a Waterwise Water Auditor near you, search [watercorporation.com.au/waterwise](http://www.watercorporation.com.au/waterwise)

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| --- | --- | --- | --- |
| **Major Water Using Area** | **Water Used** (kL) | **Water Source** (scheme, recycled, bore, other) | **Percentage of Total Water Use** (%) |
|
|
| Toilets |  |  |  |
| Showers |  |  |  |
| Hand basins |  |  |  |
| Irrigation |  |  |  |
| Kitchens/Kiosks |  |  |  |
| Cleaning |  |  |  |
| Other |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| **TOTAL** |  |  | 100% |

Water use shown above was determined by:

Give a brief explanation of how the water balance was determined (e.g. sub-metering, site water audit, estimation)

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# Benchmarking and Targets

**Performance Benchmarks**

A performance indicator can determine how much water is consumed on site compared to other similar aquatic centres in the industry, and allows for realistic and measurable targets to be set. Determining an appropriate performance indicator will allow water use comparisons to be made each year.

LIWA Aquatics recommends the following performance indicators based on three types of aquatic centre facilities:

Type 1 – Old style outdoor 50 metre pool

Type 2 – Indoor Leisure

Type 3 – Large multi lap/leisure complex

The following performance indicators have been established for each type.

Type 1 –kL/bather

Type 2 and 3 – kL/patron

***How to calculate your benchmark***

Divide your water use (kL) by your performance indicator (e.g. kL/ patron/ year)

|  |  |  |  |
| --- | --- | --- | --- |
| *Period* (year) | Water used (kL) | Performance Indicator  (number of bather or patron) | Benchmark  (kL/bather or kL/patron) |
|
| 2018/2019 |  |  |  |
| 2019/2020 |  |  |  |
| 2020/2021 |  |  |  |
| 2021/2022 |  |  |  |
| 2022/2023 |  |  |  |

*Comment on any increase/decrease in your benchmark (e.g. Centre closed for renovations/development during 2020).*

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**Water Efficiency Targets**

Setting water reduction targets will help drive the implementation of water efficiency actions in your centre. Targets need to include a realistic timeframe and the base year from which improvements will be measured.

*Referring to your benchmark from the current year (Table 4) insert a reduction target* *as a figure percentage of your benchmark for the coming year.*

*E.g. if your benchmark in 2021/22 was 0.038 kL/patron, a suitable water efficiency target might be: to achieve a further 5% reduction in water use and a benchmark of 0.036 kL/patron.*

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| The water efficiency target(s) is: |  |

# Water Saving Action Plan

Please note that items marked with an \* are minimum requirements to be endorsed as a Waterwise Aquatic Centre. Evidence to demonstrate these actions have been implemented must be submitted with your application for Waterwise endorsement. Evidence can include: photographs, a copy of a meter reading template or a copy of maintenance/operation plan or schedule etc.

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| 1.Managing Water Use | Status (Complete, Ongoing, To be completed or N/A ) | Proposed Completion Date | Commentary (including estimated saving if known) |
| \*Meters (and any sub-meters) are read on a daily basis and recorded. |  |  |  |
| A leak test has been completed. |  |  |  |
| \*Leak detection is included in daily inspections and reported on or repaired if a leak is observed. |  |  |  |
| The Centre has implemented a water efficient purchasing policy. |  |  |  |
| \*Educational materials (e.g. stickers and posters) are displayed to encourage patron water efficiency. |  |  |  |
| Water Corporation Online Training Modules - ‘Water Auditing’ for non-residential facilities |  |  | \*available links to module from water Corporation on request |

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| 2.Amenities | Status (Complete, Ongoing, To be completed or N/A ) | Proposed Completion Date | Commentary (including estimated saving if known) |
| \*Flow rates in showers are reduced to a minimum on 9L/minute or less. |  |  |  |
| \*Flow rates in hand basin taps are reduced to 4.5L/minute or less. |  |  |  |
| Single flush toilets have been replaced with 6/3L or 4.5/3L dual flush models. |  |  |  |
| Cyclic flushing urinals have been replaced with manually flushing urinals, automatic sensor units or ultra low-flow or waterless urinals. |  |  |  |
| \*Cleaners use a broom or mop to clean floors, if a hose is used it has a water efficient trigger nozzle. |  |  |  |

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| 3.Swimming Pool Operations | Status (Complete, Ongoing, To be completed or N/A ) | Proposed Completion Date | Commentary (including estimated saving if known) |
| \*Backwashing processes have been reviewed and adjusted to minimise water use. |  |  |  |
| Level of the ball float valve in the balance tank has been checked. |  |  |  |
| Pool covers are used. |  |  |  |
| Brooms or blower vacs are used to clean around the pool (rather than a hose). |  |  |  |

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| 4.Kitchens and kiosks  If your centre does not have a kitchen or kiosk please go to next section | Status (Complete, Ongoing, To be completed or N/A ) | Proposed Completion Date | Commentary (including estimated saving if known) |
| Hot water system that supplies the kitchen and kiosks is located near these areas. |  |  |  |
| Flow rates in taps are reduced to 9L/min or less. |  |  |  |
| Dishwashers in kitchens or kiosks areas are water efficient. |  |  |  |
| Pre rinse spray valves have been installed and staff in kitchens and kiosk areas rinse plates before washing. |  |  |  |
| Condition of pre rinse spray valves are checked regularly for wearing. |  |  |  |
| Mops or squeegees are used to clean kitchen areas rather than a hose. |  |  |  |
| Signage is displayed to encourage staff to not leave taps running |  |  |  |
| Food is not defrosted under running water. |  |  |  |

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| 5.Fitness centres  If your centre does not have a fitness centre please go to next section | Status (Complete, Ongoing, To be completed or N/A ) | Proposed Completion Date | Commentary (including estimated saving if known) |
| Flow rates in showers are reduced to a minimum on 9L/minute or less. |  |  |  |
| Flow rates in hand basin taps are reduced to 4.5L/minute or less. |  |  |  |

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| 6.Outdoor areas  If your centre does not have an outdoor landscaped area please go to next section | Status (Complete, Ongoing, To be completed or N/A ) | Proposed Completion Date | Commentary (including estimated saving if known) |
| Staff have completed the Water Corporation’s online Waterwise Garden and irrigation Training. |  |  |  |
| \*Gardens and landscape are watered on rostered watering days only. |  |  |  |
| Soils are improved to improve plant growth and water retention. |  |  |  |
| Alternative water sources (rainwater, greywater or a bore) have been considered for irrigation of garden and landscape areas. |  |  |  |
| Waterwise plants are used in the garden and landscape. |  |  |  |
| Garden beds are mulched with Waterwise mulch. |  |  |  |
| Underutilised areas of lawn in the landscape have been replaced with waterwise alternatives. |  |  |  |

# Management Commitment and Water Corporation and LIWA Aquatics acceptance

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| **Commitment to Waterwise Aquatic Centre Program** | | | |
| <Aquatic Centre Name>: | | | |
| a) | Will implement the water saving measures stated in the Water Saving Action Plan of the Water Management Plan and ensure employees and contractors assist in implementing actions. | | |
| c) | Acknowledges that the Water Corporation and/or LIWA Aquatics may comment on the WMP and/or request additional information relating to the WMP. | | |
| d) | Acknowledges that the Water Corporation and LIWA Aquatics will monitor the WMP and failure to meet requirements of the program may result in the withdrawal of Waterwise endorsement. | | |
| e) | Will submit an annual report, in accordance with the Action Plan, detailing progress made on the WMP in order to maintain endorsement as a Waterwise Aquatic Centre. | | |
| Name |  | | |
| Position |  | | |
| Signature |  | Date |  |
| **Water Corporation and LIWA Aquatics Acceptance of WMP** | | | |
| Water Corporation and LIWA Aquatics has reviewed and accepted the WMP. With acceptance of this WMP <Aquatic Centre Name>: will be endorsed as a Waterwise Aquatic Centre. | | | |
| **Water Corporation:** | | | |
| Name |  | | |
| Position |  | | |
| Signature |  | Date |  |
| **LIWA Aquatics:** | | | |
| Name |  | | |
| Position |  | | |
| Signature |  | Date |  |