

Water Management Plan

University of Wales Trinity Saint David

Water Management Plan

**1. Introduction**

The university identifies water as a key priority within its Sustainability Plan, in line with the UN Sustainable Development Goals. The University has a duty to ensure its consumption and discharge of water resources is not negatively impacting the environment community or future generations. Water scarcity may be a major factor impacting society moving forward so as a large body we need to ensure we are taking action to mitigate our potential impact.

**2. Purpose**

To ensure the university is in statutory compliance with all legislative requirements regarding water. We have a statutory duty to ensure our consumption of water resources is not negatively impacting the environment or future generations in line with the Environment Wales Act 2016. We need to ensure we are looking to improve our flood mitigation and rainwater capture to improve groundwater recharge and improve peak overland flow intervals to reduce capacity loading on local authority infrastructure.

**3. Objectives**

The overreaching objectives of the water management plan are:

* To reduce overall water consumption per FTE student and staff member to below 4.5m2 by 2026 and 3.5m3 2030.
* Develop a baseline of agricultural and grounds based water consumption
* Reduce consumption through identification and elimination of leaks
* Develop rainwater collection and ground water recharge systems to reduce infrastructure loading.
* Improve water efficiency through utilization of technology
* Compliance with all applicable legislation
* Develop and maintain sub metering system

**4. Scope**

This plan is applicable to all members of staff, students and contractors working within the capacity of the university. The objectives will be met through the implementation of the tasks within the action plan.

**5. Monitoring**

Water consumption is measure through mains incoming billing meters within the campuses and separate estate. The water data is monitored by the sustainability team and to be reviewed annually to ensure abnormal consumption is identified.

The water consumption baselines have been set in line with the formation of the university body in 2012/13 academic year. The total consumption baseline is 49611m3 and the individual consumption rate baseline of FTE students and staff is 5.46m3.

Adoption of a submetering system across the estate will allow for further baseline values to be established at departmental and building level.

**6. Roles and Responsibilities.**

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| --- | --- | --- |
| **Water Usage** | **Responsible Officer(s)** | **Key Stakeholders** |
| Accommodation | Accommodation Manager | Campus Managers, Students, Domestic Team, Site Operative Team, Grounds Team |
| Catering Outlets | Catering and Conferencing Manager | Campus Managers, Domestic Team, Site Operative Team, Customers |
| Grounds and Landscaping | Grounds and Landscaping Manager | Grounds team, Site Operative Team |
| Campus Wide | Sustainability Team | All staff and students |

**7. Links to other policies / procedures**

Sustainability and Environmental Strategy 2023-2025

Environmental Policy Statement

Interim Net Zero Carbon Management Plan

Grounds Management Plan

**8. Document version control**

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| --- | --- | --- | --- |
| Version No: | Reason for change: | Author: | Date of change: |
| 1.00 |  | KM/KW | 30/06/2022 |
| 1.01 | Updates to action plan | KM | 29/06/2023 |
| 1.02 | Updates to action plan | KW | 12/04/2024 |
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**Appendix A: Water Management Action Plan**

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| **Issue** | **Action** | **By Department** | **By When** | **Estimated Target** |
| Lack of data to identify high usage and leaks | Implement sub metering at strategic supply points. | Sustainability & Technical Services and Compliance | December 2024 |  |
| Taps left to run for extended periods | Upgrade existing taps with percussion/IR taps. | Technical Services and Compliance |  |  |
| Water Consumption Savings | Audit existing infrastructure, build priority matrix to target improvements. | Sustainability & Technical Services and Compliance | Audit t Ongoing  o be completed by end of November 2023.  Matrix to be completed for works to commence December 2024. | 3% annual reduction in usage up to a maximum saving of 21% |
| Accommodation showers | Audit existing stock  Installation of eco shower heads. | Sustainability  Technical Services and Compliance | Summer 2022  Ongoing with refurbishment | Reduction based on audit findings |
| Legionella flushing consumption | Develop consumption baseline.  Develop flushing sequence in line with plumbing layout to reduce tap run times | Sustainability  Compliance | May 2023  Sequence flushing: July 2023  Flushing schematics September 2023  Ongoing | 40% reduction of determined baseline. |
| Treated drinking grade water for maintaining grounds | Water buts and rainwater diverters for grounds water storage and trickle watering. | Sustainability  Grounds | April 2024 | 70% of watering grounds comes from rainwater |
| Education in water conservation | Education campaign to highlight the importance of personal actions regarding water consumption.  Water Saving Week | Sustainability | October 2023  May 2024 | Ongoing |
| Ground water recharge and overland flow reduction | Development of 2 natural ponds in Carmarthen to aid ground water recharge and act as over land flow buffer during high rainfall events. | Projects | April 2023 delayed until June 2024 | In progress |
| Lack of accommodation consumption rate data | Develop accommodation FTE baseline.  Utilize submetering to produce water score cards | Sustainability | August 2023  September 2024 |  |
| Manual washing of dishes in accommodation leading to high consumption. | Fit dishwashers within accommodation | Technical compliance | September 2023 | 50% reduction in current student kitchen consumption. |
| Current waste water is estimate based on incoming supply. | Look at drainage system and develop waste water metering station for baseline development. | Sustainability  Technical Compliance | August 2023 | Accurate measured waste water figures. |

