

Water efficiency assessment

RAF base



Managing a precious resource is central to what we do at Anglian Water as the region we serve receives only half the annual rainfall of the rest of the UK. We are committed to helping our customers use water wisely so that we can make the water we take from the environment go further, which in turn will help to reduce our customers' water charges.

Protection of the environment is especially important in our region, as it is one of the fastest economic growth areas in the UK.

Optimiser provides a Water Efficiency Assessment to assist our customers with their water and wastewater efficiency. The areas covered in a Water Efficiency Assessment include:

- cistern volume adjustment
- water tap inspection and tap leakage testing
- pressure and PIR urinal flow analysis
- spray gun investigation
- day/night usage analysis
- overflow study
- pipework examination

Optimiser was invited to an RAF base to:

- evaluate the site's water consumption together with a review of some elements of the water installation;
- identify opportunities for saving water and to quantify these both in financial and volumetric terms.

The site used 482,701 m³ of water per year, and discharged wastewater to a privately owned sewage treatment plant.





recommendations:

Internal assessments identified that;

- fifty-seven urinal systems would benefit from the installation of automatic water saving flow controls;
- five hundred hot and cold taps would benefit from the installation of “self-closing” taps;
- water used by a car wash was running direct to waste. This system would benefit from the installation of a recirculation system.

benefits:

Implementation of the recommendations would result in;

- a reduction of 6,241m³/year for the installation of automatic urinal flow controls, equating to a financial saving of £1,622 per annum;
- immediate cost savings from reduced water use following the installation of “self-closing” taps;
- up to 90% reduction in water demand for the car wash.

results:

A representative from the site accompanied the Water Efficiency Assessor, so that each study recommendation could be quickly implemented, thereby maximising the return of the above benefits.