



PROJECT SUMMARY

BAT Assessment – Brewery Water Consumption

Confidential Client, UK



KEY PROJECT ELEMENTS

- PPC
IMPROVEMENT
- BREWING
INDUSTRY
- ACHIEVING BAT
- WATER EFFICIENCY
AUDIT

CRA was commissioned by a UK brewery to carry out a water efficiency audit. From this audit, CRA provided a breakdown of significant water use by activity in order to establish water efficiency objectives and to identify potential options for water use minimisation. The brewery had been issued with a permit to operate under the Pollution Prevention and Control (PPC) Regulations. Under the new PPC permit conditions, the water efficiency audit and associated assessment were required, as an Improvement Item, to ensure the Operator was using the Best Available Techniques to prevent or minimise impacts of activities on the environment.

Following an on-site review of available information with identification of major water sources, flows and consumers, a high level input output analysis of water consumption was performed. From this, water flow diagrams and an overview of water balance were created.

The client's water consumption was performance benchmarked against a selection of other UK breweries and general European industry indicators to establish water efficiency objectives for specific activities.

Following the completion of the review of water quality and water quality requirements, water pinch techniques were used to identify areas for water savings through the reuse of water and minimisation of processing requirements.

The final report included a summary of the key audit findings, water minimisation objectives and options for further consideration as potential improvement items to achieve targeted performance.