

Company Credentials

Waterco is a civil engineering design consultancy. Established in 1998, the firm specialises in water, drainage, contingency planning and flood risk projects. Clients include utilities, developers, architects, local authorities, businesses and individuals.

Waterco has experience in providing reports meeting the requirements of Category 4 of the Code for Sustainable Homes (CSH) - Surface Water Run-off. This includes showing how to fulfil the mandatory elements and attain the available credits (up to a maximum of 4) for Sur 1 (Management of Surface Water Run-off from developments) and Sur 2 (Flood Risk).

Waterco has a thorough understanding of drainage design, from initial Preliminary Drainage Assessments at the outline planning stage, through to detailed design. Together with our thorough understanding of flood risk from sources to consequences this knowledge has enabled us to offer a number of services specifically tailored to satisfying Category 4 of the CSH.

"I would strongly advise using Waterco who have assisted many engineers on my projects with the preparation of Code compliant reports and providing the evidence required for Sur 1 & 2. They certainly make the process very smooth."

Simon Jones, Director – Benchmark Sustainability

Examples of Code for Sustainable Homes work

CSH Category 4 Report (Sur 1 and Sur 2) - Guildford

Waterco calculated that the proposed development *decreased* the impermeable area of the site by approximately 46%. Therefore it could be shown that the site satisfied the mandatory requirements of Sur 1 by default in accordance with BREEAM Process and News Notes. The Category 4 report included a Flood Risk Assessment Screening Study which showed the site to be at low risk of flooding from all sources, apart from groundwater flooding. It was therefore recommended that floor levels should be raised in order to obtain 2 credits under Sur 2.

CSH Category 4 Report (Sur 1 and Sur 2) including surface water run-off calculations - Berkshire

Waterco calculated that the site *increased* the impermeable area of the site by approximately 14%. Therefore detailed surface water run-off rate and volume calculations and the Sur 1 Summary Template were completed. As surface water was to be disposed of via soakaway, our report showed that 2 Sur 1 credits would be available. The included Flood Risk Assessment Screening Study showed groundwater flooding was a particular problem in the area, but as the proposed dwelling would be raised above the surrounding ground, the development would also qualify for 2 Sur 2 credits.

CSH Surface Water Run-off Appraisal and Flood Risk Assessment – Trefnant

The proposed development increased the impermeable area of the site and our client was unsure how to dispose of the extra surface water. Waterco carried out percolation tests which showed part of the site's surface water could drain to soakaway. Waterco recommended the remaining site should include rainwater harvesting and discharge to the nearby watercourse with suitable attenuation as agreed with the Environment Agency. The development therefore qualified for 2 Sur 1 credits. Our Flood Risk Assessment Screening Study showed the site to be at low flood risk from all sources and that it qualified for 2 Sur 2 credits.

Flood Risk Team – Staff Profiles



Miriam Evans MSc

Miriam has a postgraduate Masters Degree in Planning Practice and Research. Miriam is responsible for carrying out Surface Water Run-off Appraisals and Flood Risk Assessments.



Peter Jones, BSc (Hons) CEng CWEM MICE MCIWEM

Peter is our Managing Director and a Chartered Engineer with over 30 years experience. Peter oversees all of Waterco's projects and has acted as an Expert Witness at Public Inquiries.



Gemma Roberts MEng (Hons)

Gemma has a Masters Degree in Civil and Environmental Engineering. Gemma is responsible for carrying out Surface Water Run-off Appraisals and Flood Risk Assessments.



Rob Evans CEng MICE MSc BEng (Hons)

Rob is a Chartered Engineer with over 14 years experience in civil engineering. He has a broad experience of all aspects of drainage design and the formulation of sustainable, deliverable infrastructure strategies, from masterplanning through to implementation.

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