

Capability statement: Sustainable Drainage Systems



McCloy Consulting is a team of specialist engineers and hydrologists capable of providing clients with expert technical advice on sustainable drainage systems (SUDS) for a wide range of developments.

Established in 2003, the company has quickly established a reputation for providing a professional service tailored to our clients' needs, delivering bespoke solutions to a range of environmentally sensitive problems whilst retaining an ethos of value for money to the client.

The company is at the forefront of sustainable drainage design and has been involved in the development and delivery of numerous training programmes including CIRIA's Irish national SUDS training programme since 2004.

Introduction

Sustainable Drainage Systems (SUDS) is now the preferred approach to the management of rainfall runoff from development sites that avoids the problems associated with conventional drainage. It utilises a range of source control techniques to collect, clean and store runoff before releasing it slowly to the environment.

SUDS aims to control flooding, prevent pollution and provide amenity for the community while minimising the impact on the natural environment.

Sustainable Drainage is promoted by Planning Service, Rivers Agency and NIEA, and is recommended for use on new developments through [PPS15 – Planning and flood risk](#) and within the recent consultation document '[Managing Stormwater](#)'.

Approach

Sustainable Drainage is developing quickly as a distinct discipline but is frequently misunderstood by the construction industry and can be poorly served by the design professions. McCloy Consulting provides a fully integrated design and management consultancy. We can bring together the appropriate design team to meet the specific requirements of each project undertaken by the company.

Our team combines technical expertise with the practical application of geotechnical engineering, drainage assessment and design. For larger and more complex developments we provide a specialist hydraulic modelling capability to fully assess the drainage design and optimise the SUDS solution.

McCloy Consulting can work in a normal consultancy capacity or undertake fully integrated rainfall/runoff design to provide accredited, cost effective and easily managed Sustainable Drainage solutions. Our aim is to take the lead in developing new ways of meeting the challenges of SUDS, using innovative technology where appropriate, whilst retaining the environmental objectives of creating a more benign solution to rainwater management.

The correct use of SUDS will provide added value to projects which are assessed under BREEAM and the [Code for Sustainable Homes](#). McCloy Consulting can advise on the most suitable selection of SUDS techniques for roof and hardstanding runoff. Innovative use of SUDS can also limit water usage through harvesting of rainwater. Application of green roofs can provide high levels of insulation to buildings and provide habitat to the benefit of biodiversity.

Expertise

McCloy Consulting are focused on providing a specialist service and have a proven track record in providing private and public clients with expert technical advice on SUDS for small and large developments. To date we have been involved in the design of over 200 SUDS schemes.

Capability

- Specialist advice on conceptual designs / planning approval
- Design and SUDS solutions to overcome specific site constraints
- Design and project management of SUDS solutions
- Design of management and maintenance systems for SUDS
- Modelling and optimisation of large and complex systems
- Technical support and validation of SUDS systems
- Retrofit SUDS design
- SUDS design accreditation service
- Assistance with BREEAM submissions

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