



McCloy Consulting is a team of specialist engineers and hydrologists capable of providing clients with expert technical advice on Surface Water Management and Flood Risk Assessments 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.

Introduction

The Code measures the sustainability of a new home against nine categories of sustainable design, rating the 'whole home' as a complete package. The Code uses a 1 to 6 star rating system to demonstrate the overall sustainability performance of a new home. The Code sets a number of mandatory elements which must be attained in order to gain a rating.

McCloy Consulting has experience in providing reports which will discharge mandatory elements and gain credits for Sur1 (Surface Water Run-off) and Sur2 (Flood Risk).

Capability

Surface Water Run-off Appraisal
Flood Risk Assessments
Hydrological studies
Hydraulic modelling
Assessment of climate change impacts
Drainage assessments
Environmental Monitoring

Example Clients:

FOLD Group
North and West Housing Group
Oaklee
Rural Housing Association
Helm Housing Association
Planning Consultants
Architects

Reference Contact:

Anthony McCloy

McCloy Consulting
35 Mallusk Enterprise Park
Newtownabbey
Co. Antrim BT36 4GN

T: +4428 9084 8694
E: info@mccloyconsulting.com
W: www.mccloyconsulting.com

Approach

SUR 1: Surface Water Run-off Appraisal

We investigate and advise on the most appropriate surface water drainage solutions for the site and provide a written report. This will identify how the Mandatory Elements of the Code for Sustainable Homes (CSH) Category 4 will be achieved. Such a report includes the following:

- Review of existing drainage records
- Assessment of impermeable areas and calculation of the peak rates of run-off
- Calculation of the run-off volumes, pre and post development
- Analysis of percolation tests
- Recommendations on dealing with additional runoff (infiltration, rainwater recycling and/or attenuation). Mandatory requirements to Interim Code of Practice for SUDS
- Consultations with Rivers Agency, NI Water, Road Service, Planning Service, Building Control where appropriate
- Level 1 FRA – Screening Study to identify flooding or surface water management issues (Mandatory Evidence)
- Assessment of options for the site and advice on the options available and identification of potential issues (e.g. no adoption route)
- Development of drainage maintenance manuals

SUR 2: Flood Risk

We will provide the following as part of the FRA assessment for each site.

- Sequential test
- Vulnerability Assessment
- Determination of Q1000 floodplain boundary – not currently available from Rivers Agency
- Definition of flood hazard and flood zone
- Identification of residual risk and mitigation measures

Expertise

McCloy Consulting are focused on providing a specialist service and have a proven track record in providing clients with expert technical advice on surface water management and flood risk for small and large developments. We can produce comprehensive reports addressing the issues raised in CSH Category 4, PPS25 and PPS15 (to meet the requirements of the Rivers Agency). To date we have completed in excess of 150 flood risk assessments.