



McCloy Consulting is a team of specialist engineers and hydrologists capable of providing clients with expert technical advice on 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

In accordance with [Planning Policy Statement 15](#) (PPS15), local planning authorities must ensure that flood risk is taken into account as part of the planning process for all new developments so as to reduce the risk of flooding and the damage it causes.

Flooding is a natural process that poses a risk to people and property, and the experience of recent years suggests that the incidence and frequency of flooding may be escalating.

Flood Risk Assessments are required to accompany planning proposals to identify the threat of flooding for the proposed development and the measures by which the risk can be minimised or avoided. It is important to take account of any flood risks early in the development process as planning policy and Rivers Agency advice can become significant constraints on the potential use of available land packages.

## Approach

McCloy Consulting is able to provide private clients with appropriate and expert advice regarding the scope and detail of works required for a Flood Risk Assessment that is determined by the scale and location of the development.

The key components of a Flood Risk Assessment are identifying the source of flooding, reviewing the flood history, deriving critical water levels and identifying any influences on river hydraulics. Projects must assess flooding from tidal, fluvial, groundwater, and on-site drainage sources individually and in combination.

In addition to evaluating the direct risk of flooding the Flood Risk Assessment covers a number of other factors such as loss of floodplain storage and surface water drainage issues. The potential for flood also plays an important part in the [BREEAM](#) and the [Code for Sustainable Homes](#) assessments. McCloy Consulting can advise on the level of flood risk that the proposed site would be subject to and appropriate design levels.

Having assessed the flood risk to a site, a series of alleviation measures and engineering options such as [Sustainable Drainage Systems \(SUDS\)](#), re-engineering of ancillaries or on-site can be evaluated by which the risk can be avoided completely or mitigated within acceptable limits to avoid flooding on-site or elsewhere.

## Expertise

McCloy Consulting are focused on providing a specialist service and have a proven track record in providing clients with expert technical advice on flood risk assessments for small and large developments. We can produce comprehensive reports addressing the issues raised in PPS15 to meet the requirements of the Rivers Agency.

### Capability

Desktop investigations  
Site Surveys and topographical surveys  
Hydrological studies  
Hydraulic modelling  
Assessment of climate change impacts  
Assistance with BREEAM submissions  
Drainage assessments

### Example Clients:

FOLD Group  
Conway Group  
Lagan Construction  
Farrans Construction  
Leicester City Council  
Numerous Private Developers

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