



LOCAL FLOOD RISK MANAGEMENT STRATEGY 2022 – 2028

Appendix 7 Sustainable Drainage Systems (SuDS)



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Overview

Have you ever wondered where the rain goes? Watch this [sustainable drainage animation](#) to find out.

What are SuDS?

The principle of SuDs is to mimic natural drainage of surface water. In the natural environment rain is soaked up by plants and trees, soaked up by soil, or flows into watercourses. In urban areas much of the natural drainage has been replaced by hard impermeable surfaces, which rain will quickly run-off, and many of the natural flow paths have been blocked.

Why do we need SuDS?

Successive years of development with little consideration into how sites can drain has led to a legacy of artificial drainage systems which are unfit for purpose.

Installing SuDs on new developments is an attempt to recreate natural drainage processes to manage rainwater in a more sustainable and cost-effective way, instead of constantly fighting nature by displacing water and having to provide larger and larger engineered solutions.

In Hull SuDs are required on all new developments as set out in the Local Plan – Policy 39. Guidance on SuDS can be found in the [Strategic Flood Risk Assessment](#) and the standing advice matrix can help determine suitable SuDS for a site.

The Living with Water partnership are leading on a programme of works to retrofit SuDs on existing developments to help manage water and adapt to the changing climate. See [Hull's Blue Green vision](#) for more information.

If you're interested in installing SuDS then check out the information below and if you need advice on the planning requirements to install SuDS, get in touch with us.



SuDS

Sustainable Drainage Systems

Benefits of SuDS



Reduce Flood Risk
Storing surface water



Improve Water Quality
Management of surface water runoff reduces pollution



Enable Sustainable Development
Reduced need for underground sewerage systems and faster planning approvals



Enhance Biodiversity
Creates better places for nature



Provide Amenity
Creates better places for people



Wetlands

Swales

Trees

SuDS in the landscape

SuDS work with natural processes to store water in urban areas

What can you do ?

Retrofitting SuDS to your home

SuDS can increase your homes resilience to flooding.



Rain Gardens
Free-draining planted areas containing sandy soils that can absorb and store rainwater.



Green Roofs
Soil layer helps absorb rainwater and reduce runoff.



Water Butts
Store water that runs off the roof. The collected rain can then be used for gardening.



Permeable Surfaces
Help reduce runoff to underground pipes.



Further Information

<https://www.susdrain.org/delivering-suds/using-suds/background/sustainable-drainage.html>

<https://www.bgs.ac.uk/geology-projects/suds/>

<https://www.gov.uk/government/publications/sustainable-urban-drainage-system-suds-techniques-hydraulic-structural-and-water-quality-issues>

<https://www.rspb.org.uk/globalassets/downloads/documents/positions/planning/sustainable-drainage-systems.pdf>