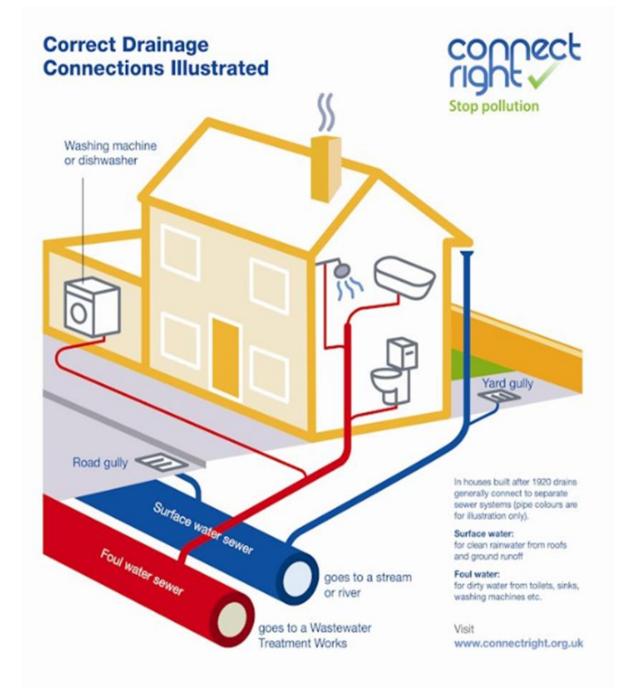


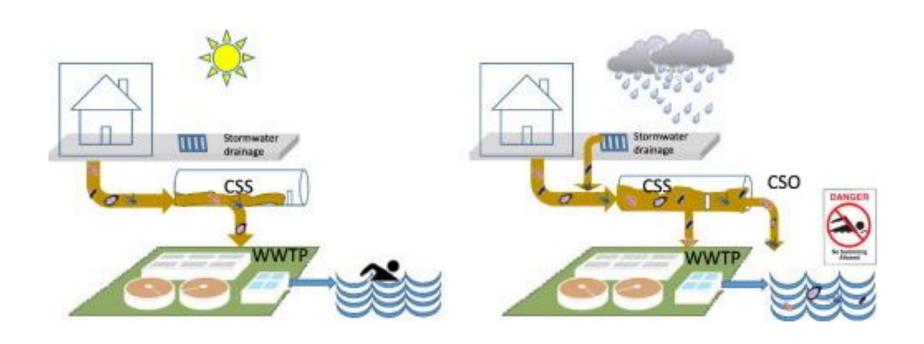
Presented by Padraig Doyle, Senior Engineer

Drainage Planning, Policy and Development Control

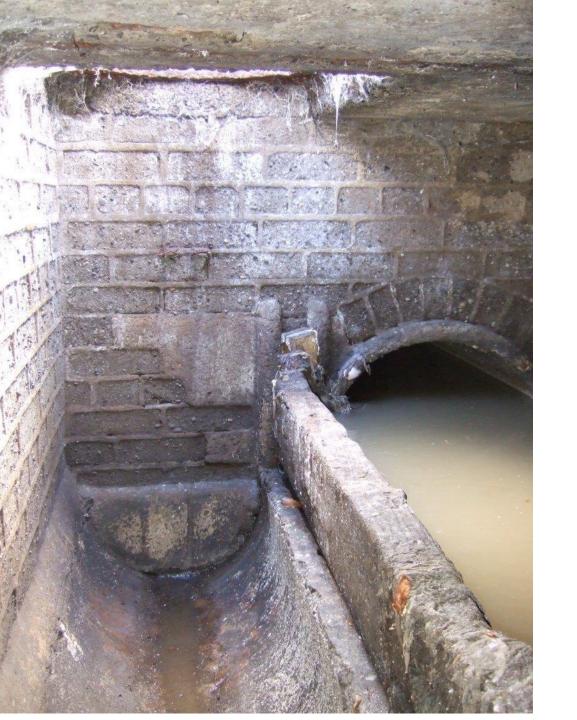




















SuDS Principles

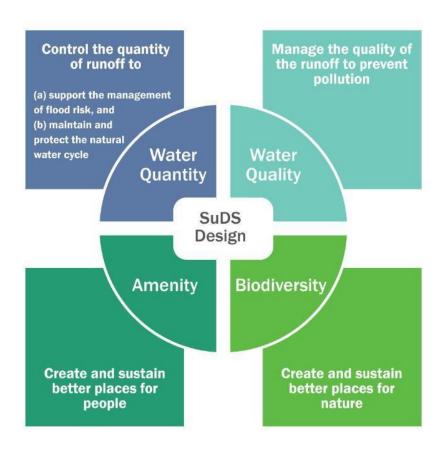
- Mimic the natural drainage processes
- Where possible, manage water at surface level
- Manage runoff close to the source
- Provide multiple benefits from the SuDS





SuDS Benefits

- Reduced flood risk
- Improved water quality
- Increased biodiversity
- Increased levels of green infrastructure
- Better places to live
- Engagement with local communities
- Adaptation to climate change
- Carbon management





Water Framework Directive

Weser Judgement (ECB)

"refuse authorisation for an individual project where it may cause a deterioration of the status of a body of surface water"

Bradan Beo Decision (High Court)

Irish Water



GREATER DUBLIN STRATEGIC DRAINAGE STUDY



Volume One Overall Policy Document



Volume Two New Development



Volume Three Environmental Mngr



Volume Four Inflow, Infiltration &



Volume Five Climate Charge



REGIONAL DRAINAGE POLICIES Technical Document



VOLUME TWO

New Development

March 2005



Comhairle Cathrach Bhaile Átha Cliath Dublin City Council Greater Dublin Regional Code of Practice for Drainage Works

Cód Cleachtais Réigiúnach Mhórcheantar Bhaile Átha Cliath le haghaidh Oibreacha Draenàla

Version Draft 6.0

16.6. Attenuation Tanks/Enlarged Pipes:

These are not true SuDS devices and should only be considered as a last resort where it can be shown that SuDS measures are not achievable.



SuDS Working Group

- Drainage flooding and water quality
- Roads Active travel
- Parks including biodiversity
- Climate Change
- City Architects Public Realm and Housing Projects
- Planning Dev Plan and Dev Control



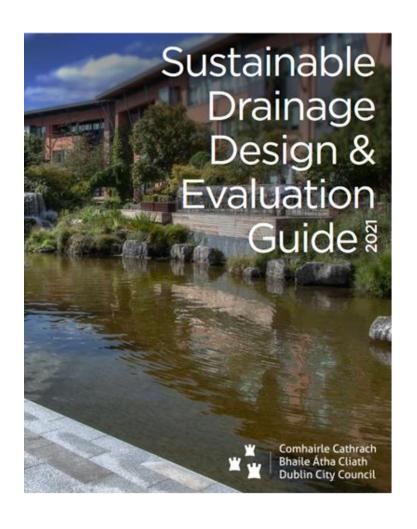
New City Development Plan

SI22 Sustainable Drainage Systems

To require the use of Sustainable Drainage Systems (SuDS) in all new developments, where appropriate, as set out in the Greater Dublin Strategic Drainage Study (Vol 2: New Development)/ Greater Dublin Regional Code of Practice for Drainage Works. Sustainable Drainage Systems (SuDS) should incorporate **nature-based solutions** and be designed in accordance with the Dublin City Council Sustainable Drainage **Design and Evaluation Guide (2021)** which is summarised in Appendix 12. SuDS should protect and enhance **water quality** through treatment at source while enhancing **biodiversity and amenity.**

SI23 Green Blue Roof

To require all new developments with roof areas in excess of 100 sq. metres to provide for a **green blue roof** designed in accordance with the requirements of Dublin City Council's Green and Blue Roof Guide (2021) which is summarised in Appendix 11.



All new development including our own

Discharge criteria as per GDSDS

Emphasis on nature based – amenity/ biodiversity – **no tanks!**



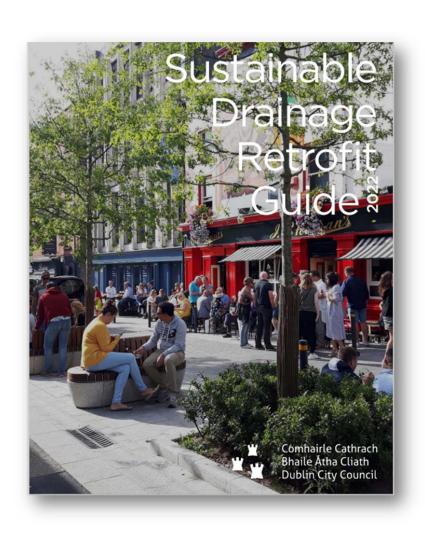


All but smallest new developments

Roofs required on even the most restricted sites

Green Blue roofs





Internal DCC document only

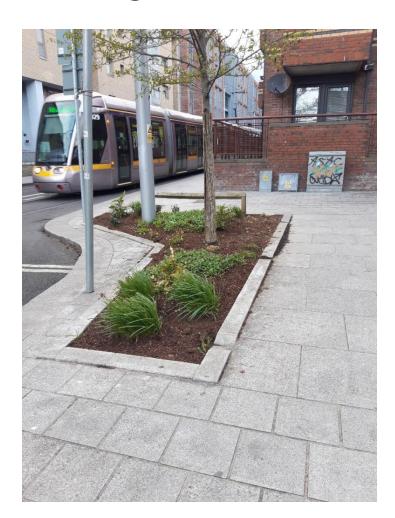
Less emphasis on discharge/ storage volumes

Greening/ minor SuDS retrofit schemes



Challenges of Implementing SuDS

- Adoption, Ownership and Maintenance.
- Difficulties in retrofitting SuDS into confined and heavily serviced city streets
- "No space for SuDS"









Comhairle Cathrach Bhaile Átha Cliath Dublin City Council





Comhairle Cathrach Bhaile Átha Cliath Dublin City Council

Going Forward With SuDS

- SuDS design needs a cross
 Departmental, multi-disciplinary approach.
- There are plenty of opportunities to implement SuDS in Dublin City
 - Private and public developments
 - Greening Strategy
 - Housing projects
 - Public realm projects
- Every project is an opportunity to improve our environment



