The Metropolitan Glasgow Strategic Drainage Partnership

Toryglen Regional SuDS
Project Information Sheet

Toryglen Regional SuDS

Background

The lack of capacity in the existing drainage systems and the corresponding risk of flooding and pollution had been a constraint to the regeneration of Toryglen on the south side of Glasgow. The Toryglen SuDS project improved drainage and allowed sustainable regeneration to progress.

Objectives

The project objectives included:

- Unlocking local development potential;
- Remove surface water from existing combined sewer;
- Reduce risk of flooding;
- Enhance the quality of the environment and diversity;
- Improve water quality prior to final discharge.

Sustainable Drainage System (SuDS)

SuDS are a modern approach to managing excess surface water and reducing the risk of flooding and pollution entering streams and rivers. They use a variety of largely natural methods to attenuate and treat water before controlling its release. In this case, the SuDS involved the construction of ponds and wetlands to store water, providing a base level of treatment, and then managing its release. Their use also has the benefit of contributing to biodiversity and nature conservation.

In Toryglen this has resulted in a long-term strategy which has created a new surface water drainage network connecting proposed development sites, a new retail park, an indoor sports training centre and residential developments – with a pond and other storage areas which hold surface water during prolonged heavy rain.

The strategic approach adopted allows for future connection of additional surface water flows as part of ongoing redevelopment and regeneration of the local area.

MGSDP Partners

- Glasgow City Council
- SEPA

MGSDP Objectives Met

- Enabling Economic Development
- Water Quality Improvement
- Flood Risk Reduction
- Habitat Improvement
- Integrated Investment Planning

MGSDP Guiding Principals Met

- Enhancement of our urban biodiversity and landscape
- Design for the severity of the rain
- Presumption that water will be kept on the surface
- Creation of integrated blue-green networks
- Integrated urban master planning and design
- Sustainable and affordable drainage solutions
- Climate change ready

Project Status

- Operational 2009

Contract Value

- £2m

Key Project Elements

- Development constraint removed
- Significant community and stakeholder consultation and input
- Scheme designed to drain 5 development sites covering 44ha (the size of 36 football pitches)
- Main pond covers 5120 square metres (equivalent to 4 Olympic swimming pools)

The MGSDP 2060 Vision is to transform how the city region thinks about and manages rainfall to end uncontrolled flooding and improve water quality.