



## PRECAST CONCRETE SUDS SOLUTIONS

# Factsheet 5: Stormwater Re-use & Recycling SuDS

*The new sewers adoption code Design & Construction Guide (DCG), introduced in April 2020, enables water authorities, for the first time, to adopt sustainable drainage systems (SuDS). This factsheet identifies the main types of precast SuDS which can be used for stormwater/ greywater harvesting, recycling, temporary storage or reuse.*

Precast re-use and water recycling tanks and systems have been in use for decades and already have a proven track record of both performance and durability. Within a SuDS scheme, such components can be used within an integrated approach where a combination of natural and engineered solutions is employed to manage stormwater runoff.

## Why precast?

Precast SuDS used for stormwater re-use and recycling come with a variety of advantages that make them a preferable option from a whole life point of view:

Precast stormwater re-use and recycling tanks are significantly more durable and stronger than any other alternative. Precast concrete tanks and chambers are less susceptible to damage with a proven track record of 120 years' service life or more if designed and maintained properly. Due to their strength, stormwater re-use of recycling tanks can be installed with very little cover and to significant depths extending to several metres, saving significant space within site. The units are also fully accessible and can be easily maintained.

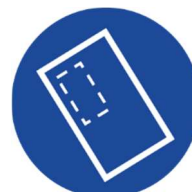
Precast SuDS systems, in general, can also resist fires and attacks by rodents attracted to some of the natural features within SuDS. The units can also resist heat from car fires, in cases when such tanks are installed under open car parks. The tanks can also resist drainage fires.



**Durable**



**Strong**



**Takes little site space**



**Accessible for maintenance**



**Resists rodents**



**Resists heat & fires**

## SuDS Re-use/ Recycling components

A variety of precast SuDS stormwater re-use/ recycling components are available for use in SuDS schemes. These include the following:

### Rainwater harvesting tanks

Rainwater harvesting tanks offer temporary storage of stormwater runoff arising from industrial, commercial and residential developments. The stored water can then be used in general non-potable applications.

Rainwater harvesting tanks help relieve demand for clean mains water and offer support to efforts to reduce flood risk within urban sites.



### Rainwater filter chambers

Rainwater filter chambers are an integral part of any on-site rainwater harvesting system as they help with the treatment of surface water by removing leaves, grit and other debris.



### Grey water recycling tanks

Grey water recycling and storage tanks can take different forms. These tank systems mainly collect specific types of used grey water from buildings and offer treatment and temporary storage. The water can be reused in non-potable applications or gradually discharged to different waterways.



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