

Grange Park Primary School

Enfield, London

Kier Construction - London

BIG Challenge 2015 submission category: Large scale permanent

Project overview

The project was an extension to an existing primary school in a suburban environment. The element of the works in question was the formation of a series of “cascade ponds.”

These works provided drainage attenuation on site, are aesthetically pleasing and improve bio-diversity

What were the biodiversity conditions on site, prior to the enhancement?

Poor. The site was either areas of hard-standing or poor quality grassland.

Were there any specific conditions that led to you carrying out this work?

The works were designed in this way to mitigate the requirement to install a large, subterranean. Attenuation tank on site.

What were the biodiversity measures taken?

A scheme such as this would be easily replicable in the future, as well as providing a better alternative to the more standard attenuation tank.



Photo: Cascade ponds

The long term management is considered through the choice of plants and the fact that the system is maintained through passive watering by drainage. The ponds have significantly improved diversity of plants on site.

How would you best describe the project?

An enhancement.

Further information

The cascade ponds are around 1m deep have been formed from timber sleepers and a pond liner.

The ponds have then been filled with soil and planted with a mixture of semi-aquatic plants.

This, along with other element of the scheme, have greatly improved plant diversity and, in time, should improve bio-diversity.

What was your personal motivation for carrying out the enhancement?

The works provide an excellent blend of functionality, aesthetics and improvements in the local ecology.