



Loss of original SuDS

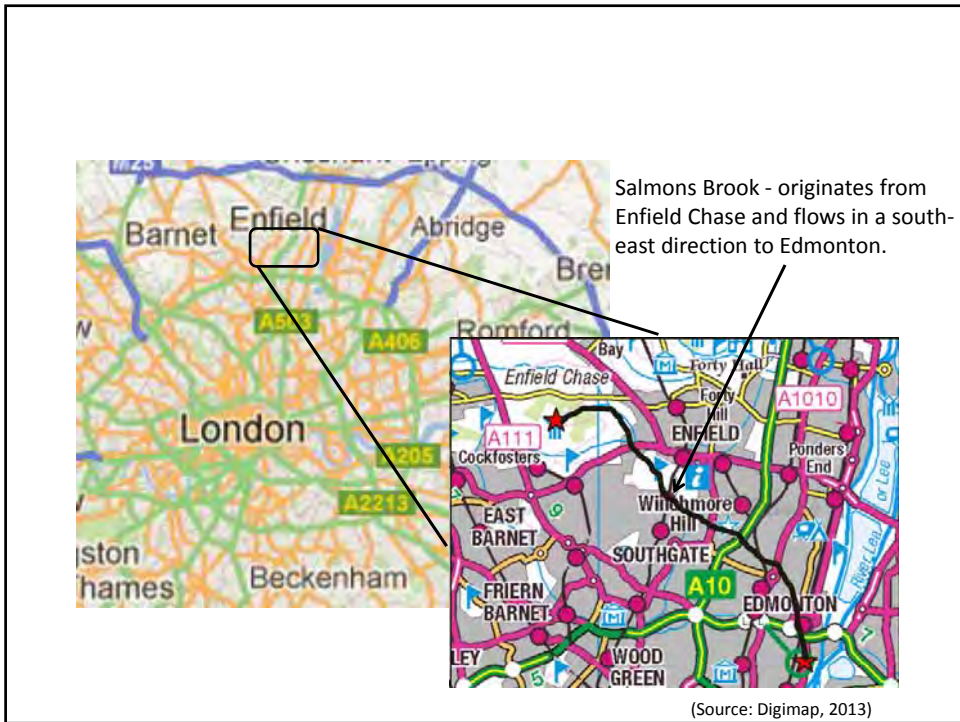


Failure to use existing green spaces









Salmons Brook – Healthy River Challenge Catchment Restoration Fund

- £361,000 from Defra to tackle urban diffuse pollution
- Project runs until March 2015
- To create 6 Sustainable Drainage Systems in public spaces
- Monitor to demonstrate improvements in water quality

Identifying sites

- We had been talking to people about water quality in Enfield for more than a year before we were awarded the funding
- We already had local advocates for SuDS
- We had support from key officers within LB Enfield to improve water quality
- We were used to explaining SuDS to non-experts
- Many people knew water quality was poor

Sampling Sites Location



(Source: Google map, 2013)

Sources of pollution

A10 run-off into
Salmons Brook



Boxer's Lake



Frequent discharges from storm water pipes (The Spinney, Hounsdon Stream)



Blue Green Algae at Grovelands Park



Boxer's Lake Stream

New wetland areas will bring more biodiversity.

Scrub clearance creates more attractive and biodiverse spaces.

Wetland plants will be chosen for attractiveness as well as function.

Wetland areas are attractive and bring wildlife.

A cleaner, clearer natural environment for all to enjoy.

Yellow Flag iris is a beautiful native wetland plant.

Polluted Stream :
The stream is polluted with mis-connections and road run-off. This is evident in its smell, colour, the presence of Sewage Fungus and has been confirmed by our laboratory testing.

Woodland Management :
Some tree clearance and crown thinning will be required in order to allow enough daylight to reach the wetland plants, but nothing that wouldn't normally be expected as routine biodiverse woodland management. The additional sunlight will allow more plants and wildlife to flourish.

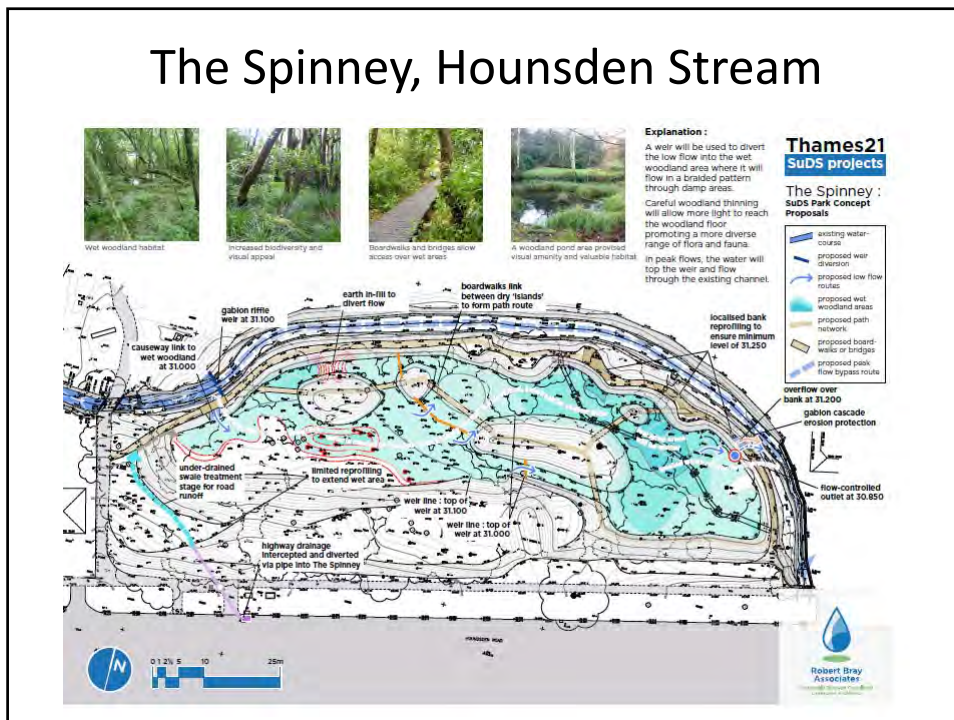
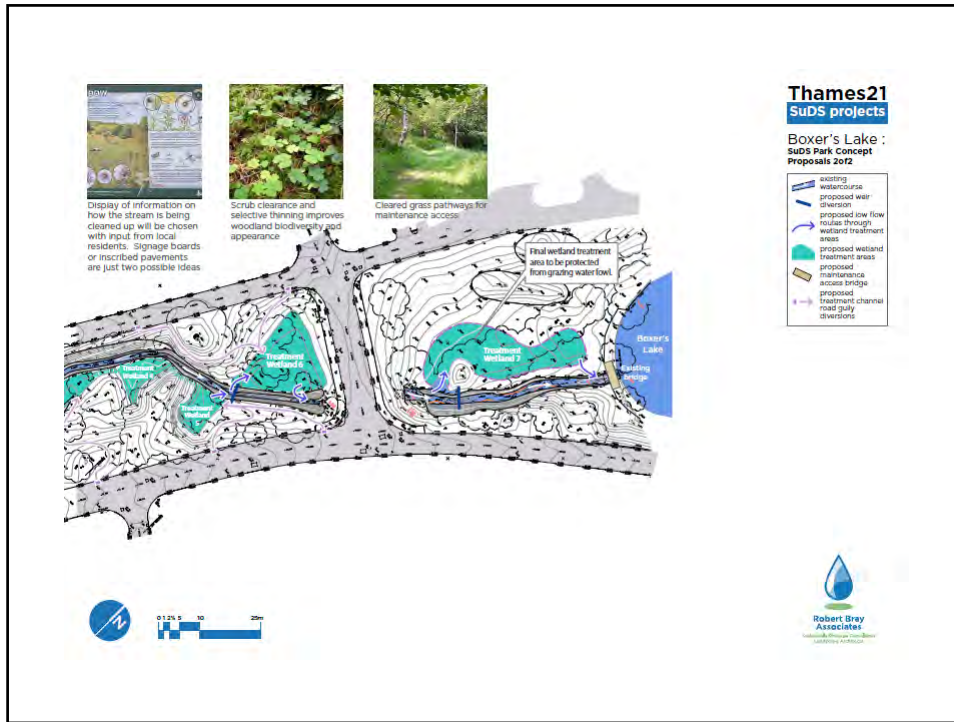
Natural Treatment :
Weirs will be used to divert the day to day low flow through new wetland areas which will treat the water to remove pollutants using natural biological and filtration processes. The wetland areas will be planted with aquatic and marginal planting and species will be selected in order to bring the most wildlife and colourful flowers.

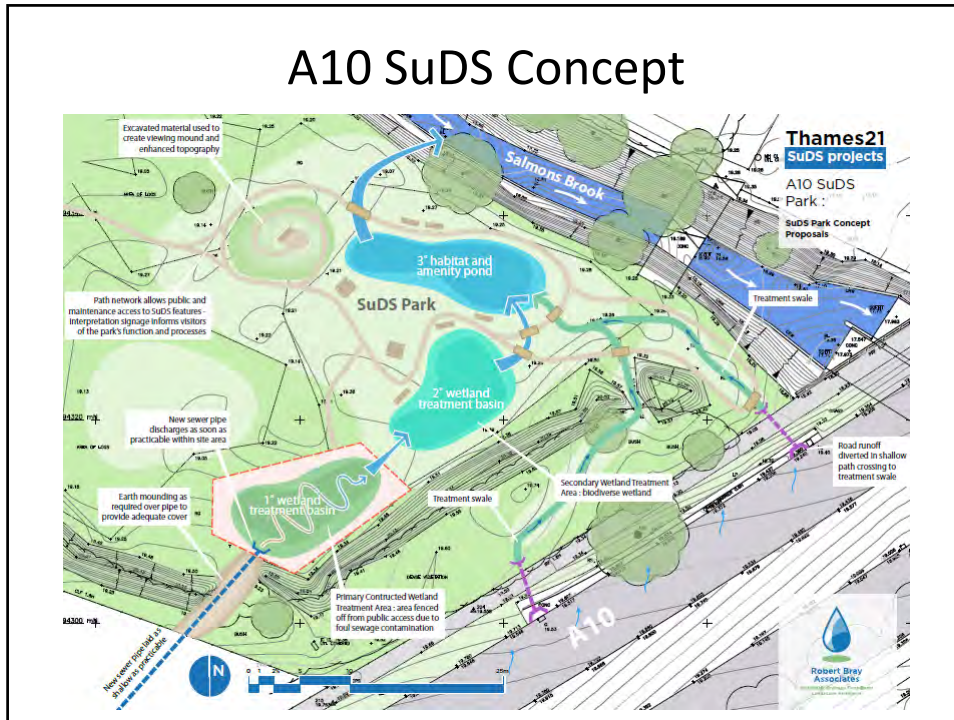
Maintenance Access :
Routes will be cleared through the woodland to allow routine maintenance such as de-silting, checking weirs, water quality testing and wetland inspection. These routes will also allow enjoyment of the new wetlands without the need for formal paths.

Thames21 SuDS projects
Boxer's Lake : SuDS Park Concept Proposals 102

Deeply incised stream bed raised by series of new weir cascades

Robert Bray Associates







Theo Thomas