

Priory Common SuDS project

As you may be aware, Priory Common has been identified as a possible location for a sustainable drainage system (SuDS) as part of the Greenstreets@Haringey Project. SuDS will reduce pollution entering the River Moselle and prevent local flood risk.

What are SuDS?

SuDS are a natural way of managing urban drainage. In urban areas, most surfaces have been paved over making it much harder for rain water to naturally soak away. This results in standing water and an increased risk of flooding. SuDS provide short term attenuation of rainwater and also provide a filtering system to remove pollutants.

Why do we need SuDS on Priory Common?

Surface water flooding occurs when our drainage network is unable to cope with heavy rainfall. The London Borough of Haringey has identified Priory Common to be on a flow pathway. A SuDS here will intercept rainwater and divert it into a rainmeadow that will slow the water down. This will help to reduce the risk of flash flooding and will also allow natural cleaning of the water. This process will help to prevent road run-off pollution entering the River Moselle.

How can I get involved or find out more information about the project?

Our aim is to involve local volunteers at every stage of the project, from planting through to water quality monitoring. If you have any questions or comments about the concept design of the Priory Common Rainmeadow (on reverse) please do get in touch with Vicki Paternoster.

For more information about the Priory Common Rainmeadow, or to join our mailing list for updates, please contact Vicki Paternoster, Greenstreets@Haringey Project Officer

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Love the Lea is a campaign for clean rivers in East London. The Greenstreets@Haringey Project is part of this campaign; a project demonstrating how river pollution can be cut and the risk of surface water flooding reduced with community participation.



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Suds projects

Priory Road Rainmeadow

Suds Concept Proposals

03.03.15

A granite sett channel redirects polluted road runoff, holding it in a re-lined rainmeadow alongside the pavement to the Priory Road.

Rainwater is allowed to move slowly through a wide and gently sloping shallow channel, in order to maximise the uptake by established trees and proposed native planting. Holding the water like this helps to reduce flash flooding and allows natural cleaning of the water. This process helps to protect your local river, the Moselle.

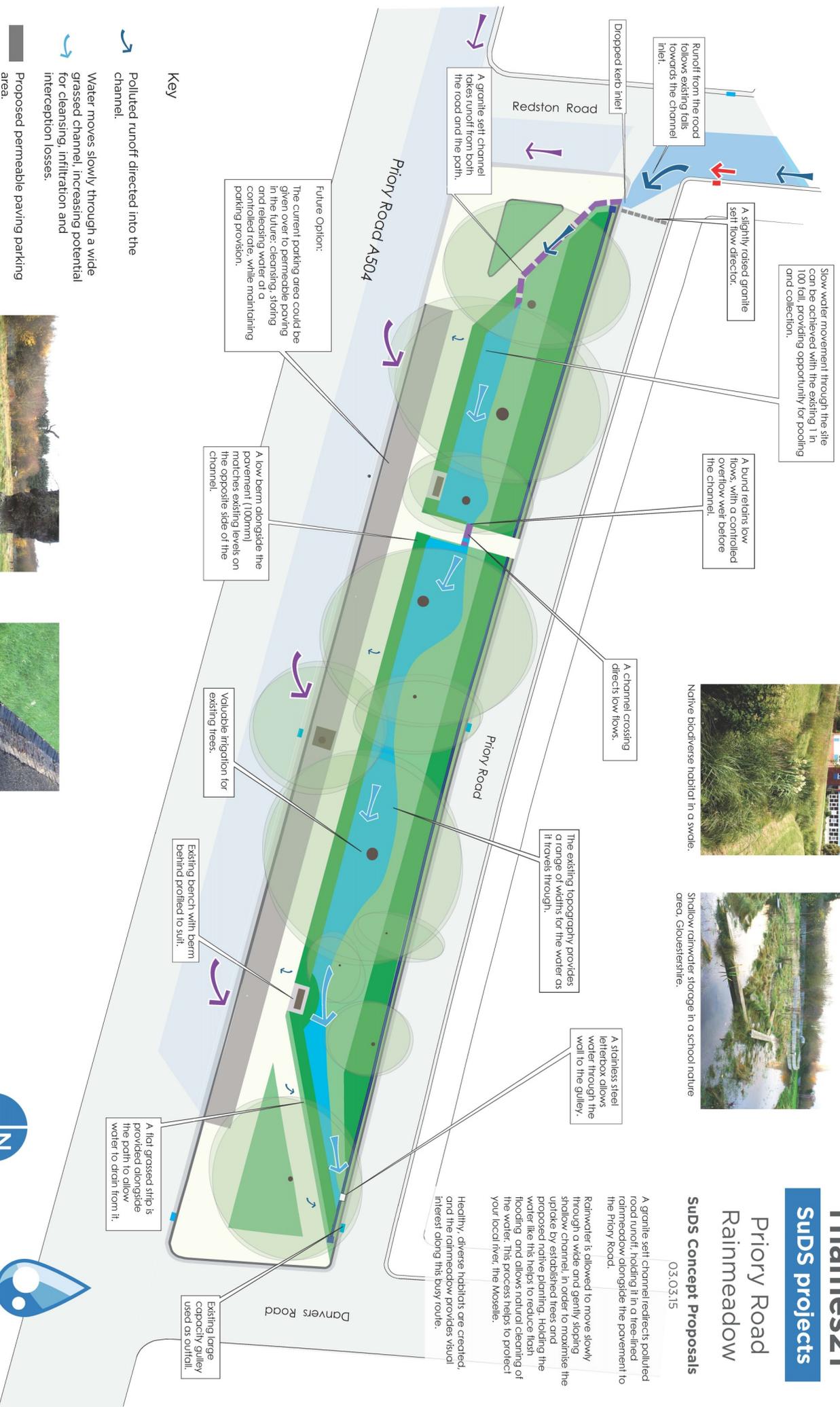
Healthy, diverse habitats are created, and the rainmeadow provides visual interest along this busy route.



Native biodiverse habitat in a swale.



Shallow rainwater storage in a school nature area, Gloucestershire.



Slow water movement through the site can be achieved with the existing 1 in 100 fall, providing opportunity for pooling and collection.

A slightly raised granite sett flow director.

A bund retains low flows, with a controlled overflow weir before the channel.

A channel crossing directs low flows.

The existing topography provides a range of widths for the water as it flows through.

A stainless steel letterbox allows water through the wall to the gully.

Future Option:
The current parking area could be given over to permeable paving in the future, cleansing, storing and releasing water at a controlled rate, while maintaining parking provision.

A low berm alongside the pavement (100mm) matches existing levels on the opposite side of the channel.

Valuable irrigation for existing trees.

Existing bench with berm behind profiled to suit.

A hot grassed strip is provided alongside the path to allow water to drain from it.

Existing large capacity gully used as outfall.

Key

↪ Polluted runoff directed into the channel.

↪ Water moves slowly through a wide grassed channel, increasing potential for cleansing, infiltration and interception losses.

■ Proposed permeable paving parking area.

↪ Proposed gully diversion.

↪ Polluted runoff directed into the permeable paving.



Flows can be directed to irrigate tree roots and reduce the stress caused by drought.



A granite channel can provide an animated edge during rainfall.

Scale 1:1,150
of A3

