

TECHNICAL NOTE

Job Name: Dunsbury Hill Farm

Job No: 30142

Note No: TN003

Date: 12/06/15

Prepared By: Ruth Farrar

Subject: Maintenance Schedule

Item	Subject
1.	Hermitage Stream Maintenance Schedule To ensure the re-aligned Hermitage Stream functions as per the design and provides the additional habitat as proposed the Maintenance Schedule in Table 2.1 must be adhered to. Note that the maintenance frequency may change once the stream has become established. It is recommended that quarterly inspections of all aspects of the scheme should be carried out over the first two years and then the frequency of the maintenance in the Schedule revised accordingly, if required. In addition to quarterly inspections in the first two years it is advisable that an inspection is undertaken after very significant rainfall events to ensure that the evolution of the channel has not been detrimentally affected.

DOCUMENT ISSUE RECORD

Technical Note No	Rev	Date	Prepared	Checked	Reviewed (Discipline Lead)	Approved (Project Director)
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Table 2.1 Maintenance Schedule

Asset	Access	Recommended Maintenance	Frequency	Biodiversity Gains	Residual Risks
River channel	Length of channel - access via steps close to the bridge, from the hotel plot and the steps at the toe of the A3 embankment.	Remove all litter from the Stream and ensure no blockages	Annually	The Hermitage Stream restoration has been designed to improve and diversify aquatic habitat. The stream needs to be retained to its design status, in accordance with the maintenance schedule, to ensure this habitat is provided	Working in the channel, in flowing water. Clearance of silt from the channel
		Gravel-lining re-distribution, where required			
		De-silt the channel bed upstream of the existing weirs when required, in accordance with EA guidance (in September/October only)	Annual inspection and de-silting when required		
Concrete flood walls	Access from path along the toe of the A3 embankment	Visual inspection of the structure	Annually		Working in the channel, in flowing water.
		Structural survey required if signs of degradation present	When required		
Reno mattress/gabion baskets	Access to downstream of bridge gained via steps from new highway embankment	Visual inspection of the baskets and stone to ensure they retain structural integrity.	Annually		Working in the channel, in flowing water. Working at heights
		Ensure no degradation of the banks and bed around the reno mattresses and gabions			

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	Reinforced earth bank (Flex MSE or similar approved)	From path on left bank close to hotel plot or from steps from new highway embankment	Visual inspection to ensure vegetation is well established on the banks	Annually	Flex MSE provides robust river banks, as well as restoring natural habitat	Working in the channel, in flowing water. Clearing vegetation debris by hand
			Careful strimming of vegetation elsewhere, leaving 150mm of growth. Care to be taken not to cut Flex MSE bags	Bi-annually - recommended Spring and late summer		
	Reinforced grass	From path on left bank close to hotel plot	Visual inspection to ensure vegetation is well established on the banks	Annually	Plants establish within its open polymeric matrix, resulting in additional habitat	Mowing of vegetation on sloping surface
			Careful strimming of vegetation leaving 150mm of growth. Care to be taken not to cut the geotextile	Bi-annually - recommended Spring and late summer		
	In-channel Vegetation	Length of channel - access via steps close to the bridge, from the hotel plot and the steps at the toe of the A3 embankment.	Careful strimming of vegetation leaving 150mm of growth.	Bi-annually - recommended Spring and late summer	Coir fibre rolls are included in the design to provide natural habitat within the Hermitage Stream's channel	Working in the channel, in flowing water. Clearing vegetation debris by hand
	Riffles	Path on left bank close to hotel plot, or via steps to southeast of bridge, to access right bank	Visual inspection of riffle structures. Ensure they retain appropriate height, to form a low barrier in the channel. This is observed by the presence of white water immediately downstream	Quarterly for the first two years and then annually	The designed riffles will provide passage and safe refuge for fish as well as good habitat for invertebrates in the fast flowing water	Working in the channel, in flowing water. Manual handling of riprap

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			of the riffle.			
			Riprap stone may need repositioning to ensure riffle is functioning correctly.	When required		
	Pools	Path on left bank close to hotel plot, or via steps to southeast of bridge, to access right bank	Visual inspection of the pool to ensure it is retaining suitable depth to provide habitat. Siltation may occur over time	Quarterly for the first two years and then annually	The designed pools will provide good habitat for aquatic wildlife	Working in the channel, in flowing water. Clearing vegetation debris by hand
	Backwater	From path on left bank close to hotel plot	Visual inspection of bed and banks to ensure stability	Annually	The backwater will provide a still water habitat for aquatic wildlife, compared to the rest of the scheme	Working in deep water
			De-silt the bed of the backwater if required			
	Head walls (upstream and downstream of Backwater)	Close inspection via path on left bank close to hotel plot, or front visual via steps to southeast of	Remove any litter or material blocking the structure	Bi-annually		Working in the channel, in flowing water.
			Visual inspection to ensure no signs of	Annually		Working at heights

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		bridge, to access right bank	structural degradation			
	Pathways	Length of the scheme - access from access steps close to the bridge, from the hotel plot and the steps at the toe of the A3 embankment.	Visual inspection - ensure gravel pathways are retained in good condition. No geotextile lining should be exposed. Top up gravel where required	Annually		None
	Access steps	Located adjacent to the bridge and to the northwest and southeast of the bridge	Ensure gravel in steps is topped up appropriately and retained in good condition to provide safe access. No geotextile lining should be exposed.	Annually		None
	Fencing	Access via steps close to the bridge	Visual inspection - fencing to be retained in good condition to provide a barrier to the watercourse	Annually		None

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3.	Maintenance Instructions All waste removed from the area must be transported offsite, with no burning permitted on site. Natural debris may be left within the site to provide shelter and habitat for wildlife, as long as it is away from the Stream and above the 1% AP plus climate change level. Due to limited access, proximity to infrastructure and nature of the channel slopes, only limited equipment can be used to carry out maintenance operations. Any ground disturbed during maintenance operations must be made good to original condition. The presence of protected species, such as reptiles, birds, dormice and invertebrates, should be considered during maintenance operations. An ecologist should input into the method statement for this maintenance works if protected species are found within the working areas.
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