



Data and information				Judgement			Action (by permitting)		
Receptor	Source	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management	Residual Risk
What is at risk? What do I wish to protect?	What is the agent or process with potential to cause harm?	What are the harmful consequences in things going wrong?	How might the receptor come into contact with the source?	How likely is this contact?	How severe will the consequence be if this occurs?	What is the overall magnitude of the risk?	On what did I base my judgement?	How can I best manage the risk to reduce the magnitude?	What is the magnitude of the risk after management?
Local population and erosion	Increased flow and sedimentation	Reduction in flow during a flood event	Additional flow	Medium	Medium	Medium	The will only be a minor change in channel size	The removal of silt bank on RH bank will increase the capacity in the channel upstream of the weir	Low
Local population	Increased flood risk	Impact on local population, leisure area and businesses, damage to property	Out of channel flow	Medium	Low	Medium	Working within in green open space.	Temporary closure of the footpath.	Low
Historic environment	Physical damage to existing historic structures	Collapse of structures into the channel	During construction work	Medium	Medium	Medium	Construction works that dig or impact on the ground can cause damage	Include a condition that only low impact works may be utilised that will not affect the structure. Consideration for support beyond battering for LH bank wall during excavation.	Low



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Habitat and species	Non-natural flow regime reduces flow variability; increased flows may increase floodplain connectivity	Changes to ability of river to form and sustain habitat; direct loss of or damage to habitat/species from additional bank protection	Change in quantity and dynamic of water flow; change in river connectivity; change in structure and substrate of river bed	Low	Medium	Low	The distance from the site to any habitat or species protection areas	Do not carry out within 200m of a European designated nature conservation site, SSSI or National Nature Reserve, and 1km of such a site notified for its freshwater habitats or species. Do not carry out activity within a Local Nature Reserves (LNR), Local Wildlife Site (LWS) or Ancient woodland. Do not carry out activity within 1km upstream of an area identified as containing Priority Habitat that has been selected for the importance of its river or freshwater habitat. Do not carry out activity within 50m of protected or priority species that could be impacted.	Low
Habitat and species	Siltation and erosion	Loss of or damage to habitat or species	In-channel flow and sediment	High	Low	Medium	Limited length of bank affected and the limited size	Include a condition that a sediment control method must be used downstream to prevent transport	Low



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			movement				of the silt bank to be removed.	Include a condition that the works will be tied into banks at both ends to prevent erosion occurring behind them.	



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Habitat and species	Spread of non-native invasive species, plant and animal diseases	Loss of or damage to habitat of species	Spread of species in the catchment caused by non-native species being disturbed and spread downstream or transported by machinery and equipment to or from another site	Low	Medium	Low	Site visit did not highlight any issues with non-native invasive plants. The site is a well maintained public park issues would have been previously highlighted	The operating techniques/management system should include a plan of biosecurity and site management measures to prevent the spread of invasive non-native species, plants and animal diseases	Low



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Fish	Direct damage, siltation and erosion	Loss of damage to species or breeding grounds	Changes in: quantity and dynamics or water flow; structure and substrate or river bed; and structure of riparian zone	Low	High	Medium	Prohibiting works during breeding periods will greatly reduce the risk to spawning grounds	Include a condition that works should not be carried out during the relevant fish breeding season	Low
Water quality	Increased siltation caused by working in the river, direct disturbance whilst undertaking	Increase in sediment load	Direct run-off from site, or in-channel flow from works	Medium	Medium	Medium	Will reduce risk due to limited mobilisation of sediment or pollutants.	Include a condition to ensure the risk to water quality and sediment control will be minimised. The operating techniques/management system must address how the operator will manage and minimise the silt arising from their activity.	



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	construction works or footprint of the finished works		within bank					The necessary measures should be in place before works begin.	
WFD biological quality elements	Changes in flow, water quality or to habitat	Deterioration of ecological status through loss or harm to biology	Changes in: quantity and dynamics of water flow; connection to groundwater bodies; river connectivity; river depth and width variation; structure	Medium	Medium	Medium	Limiting the size of the activity reduces the impact on receptors	Include general conditions which limit size, scale and magnitude of loss.	Low



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			and substrate of river bed; and structure of riparian zone.						
WFD hydromorphology quality elements	Geomorphological processes altered by activity	Deterioration of high morphology status as measured by WFD	Changes in: quantity and dynamics of water flow; connection to groundwater bodies; river connectivity; river depth and	Low	Medium	Medium	Working in channel can cause increased sedimentation and other damage, which may be large enough to adversely affect the status of the water body	Include a condition that prohibits the activity within 100m upstream or downstream of high morphology status water bodies.	Low

[illegible]