

APPENDIX A

Short-list Options WFD Assessment

EW FAS -Teville Stream Restoration Restoration Options and Projects Matrix

Option	Location	Ref	Reach	Description	Estimated Cost (£K)		Does Option Meet WFD Measure?										Pressure Fix Actions					
							WORKING WITH FORM AND FUNCTION					STRUCTURAL MODIFICATION		OP'S AND MAINT'	WATER MGMT	EDUCATION	SE0199		SE0196	SE0031	NA2	NA5
					Cash Cost	100 year PV whole life cost	Remove obsolete structure	Remove hard banks or replace with soft eng.	Preserve / restore aquatic habitats	Increase in-channel morphological diversity	Re-opening existing culverts & Alteration of channel bed	Enable fish passage	Preserve / enhance ecological value of marginal habitat	Techniques to prevent transfer of invasive species	Appropriate techniques to align and attenuate flow	Education of landowners	Investigate and remediate sedimentation	Investigate and remediate pollution	Control invasive species	Investigate and report on water quality	Investigate pollution solutions	
SL1	Deacon Way Culvert Bypass	SL1A	3, 4, 3	Do Nothing	0	0																
		SL1B	3, 4, 4	Do Minimum	0	65.4																
		SL1 C	3, 4, 5	New channel using existing ditches	415-513	425-661	Y		Y		Y	Y	Y	Y					Y			
		SL1 D	3, 4, 5	New channel with newly cut channel	415-513	425-662	Y		Y		Y	Y	Y	Y	Y				Y			
		SL1 E	3	Reed bed downstream of GSK outfall	22.2	69-103			Y	Y			Y		Y	Y	Y	Y	Y	Y	Y	
SL2	Meadow Lane Landfill Culvert	SL2 A	6, 7	Do-nothing	0	0																
		SL2 B	7	Do-minimum	TBC	TBC												Y	Y		Y	Y
		SL2 C	7	Reline culvert	TBC	TBC											tbc	tbc	tbc	tbc	tbc	
		SL2 D	7	Daylight culvert	TBC	TBC	Y		Y		Y						tbc	tbc	tbc	tbc	tbc	
		SL2 E	7	Bypass culvert	TBC	TBC	Y		Y	Y	Y	Y	Y				tbc	tbc	tbc	tbc	tbc	
SL3	Brooklands Lake	SL3 A	9	Do-nothing	0	0																
		SL3 B	8, 9	Do-minimum	0	60																
		SL3 C	9	Dredge lake (one-off works)	1355.5	N/A																
		SL3 D	9	Turn Brooklands into a saline intertidal habitat	341-387	553-626	Y		Y	Y		Y	Y									
SL4	General Channel improvements	SL4 A	3	Stabilise bank, narrow channel and make shallower D/S of GSK outfall	74	108		Y	Y	Y			Y									
		SL4 B	5	Create reed bed	0-26	29-55			Y	Y			Y		Y	Y	Y	Y	Y	Y	Y	
		SL4 C	5	Create fish refuges from locally sourced stick-bundles	6	20		Y	Y				Y									
		SL4 D	6	Install marginal habitats, including reed beds and coir rolls	15	47					Y		Y									
		SL4 E	8	Remove sharp-crested weir and replace with cobble riffle	6	7	Y		Y	Y		Y	Y									
		SL4 F	9	Create large new reedbed to provide habitat at northern fringe of lake	23	135-187							Y			Y	Y	Y	Y	Y	Y	