

**A FIELD SURVEY DETAILS**

Site Number:  leave blank if new site

Site Reference:

Spot-check 1 Grid Ref:

Spot-check 6 Grid Ref:

End of site Grid Ref:

Reach Reference:

River name:

Date / /20      Time:

Surveyor name:

Accredited Surveyor code:

Is the site part of a river or an artificial channel? River  Artificial

Are adverse conditions affecting survey? No  Yes

If yes, state .....

Is bed of river visible? barely or not  partially  ±entirely

Is health and safety assessment form attached? Yes  No

Number of photographs taken:

Photo references:

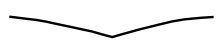






Site surveyed from: left bank  right bank  channel

**When options shown with 'shadow boxes', tick one box only**

**LEFT      banks determined by facing downstream      RIGHT**

**B PREDOMINANT VALLEY FORM (within the horizon limit) (tick one box only)**

(tick one box only)

	<input type="checkbox"/> shallow vee		<input type="checkbox"/> concave/bowl
	<input type="checkbox"/> deep vee		<input type="checkbox"/> asymmetrical valley
	<input type="checkbox"/> gorge		<input type="checkbox"/> U-shape valley
			<input type="checkbox"/> no obvious valley sides

Distinct flat valley bottom? No  Yes       Natural terraces? No  Yes

**C NUMBER OF RIFFLES, POOLS AND POINT BARS (enter total number in boxes)**

Riffle(s)	<input type="text"/>	Unvegetated point bar(s)	<input type="text"/>
Pool(s)	<input type="text"/>	Vegetated point bar(s)	<input type="text"/>

**D ARTIFICIAL FEATURES (indicate total number of occurrences of each category within the 500m site)**




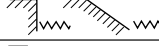
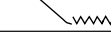

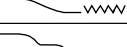
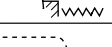
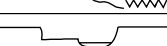
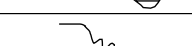
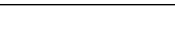
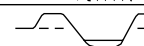

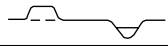
If none, tick box <input type="checkbox"/>	Weirs/slucices			Outfalls/intakes		
	Major	Intermediate	Minor	Major	Intermediate	Minor
	Other - state <input type="text"/>					

**Is channel obviously realigned?** No  Yes, <33% of site  ≥33% of site

**Is channel obviously over-deepened?** No  Yes, <33% of site  ≥33% of site

**Is water impounded by weir/dam?** No  Yes, <33% of site  ≥33% of site

SITE REF.	<b>RIVER HABITAT SURVEY: TEN SPOT-CHECKS</b>					<b>Page 2 of 4</b>					
Spot-check 1 is at: upstream end <input type="checkbox"/> downstream end <input type="checkbox"/> of site (tick one box)											
<b>E PHYSICAL ATTRIBUTES</b> (to be assessed across channel within 1m wide transect)											
<b>When boxes 'bordered', only one entry allowed</b>											
	<b>1 GPS</b>	2	3	4	5	<b>6 GPS</b>	7	8	9	10	<b>GPS</b>
<b>LEFT BANK</b>	Ring EC or SC if composed of sandy substrate										↑ Enter channel substrate(s) not occurring as predominant in spot-checks but present in >1% of whole site.
<b>Material</b> NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, TD, FA, BI											
<b>Bank modification(s)</b> NK, NO, RS, RI, PC(B), BM, EM											
<b>Marginal &amp; bank feature(s)</b> NV, NO, EC, SC, PB, VP, SB, VS, NB											
<b>CHANNEL</b>	GP- ring either G or P if predominant										
<b>Channel substrate</b> NV, BE, BO, CO, GP, SA, SI, CL, PE, EA, AR											
<b>Flow-type</b> NV, FF, CH, BW, UW, CF, RP, UP, SM, NP, DR											
<b>Channel modification(s)</b> NK, NO, CV, RS, RI, DA, FO											
<b>Channel feature(s)</b> NV, NO, EB, RO, VR, MB, VB, MI, TR											
<b>For braided rivers only: number of sub-channels</b>											
<b>RIGHT BANK</b>	Ring EC or SC if composed of sandy substrate										
<b>Material</b> NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, TD, FA, BI											
<b>Bank modification(s)</b> NK, NO, RS, RI, PC(B), BM, EM											
<b>Marginal &amp; bank feature(s)</b> NV, NO, EC, SC, PB, VP, SB, VS, NB											
<b>F BANKTOP LAND-USE AND VEGETATION STRUCTURE</b> (to be assessed over a 10m wide transect)											
<b>Land-use: choose one from BL, BP, CW, CP, SH, OR, WL, MH, AW, OW, RP, IG, TH, RD, SU, TL, IL, PG, NV</b>											
LAND-USE WITHIN 5m OF LEFT BANKTOP											
LEFT BANKTOP (structure within 1m) B/U/S/C/NV											
LEFT BANK-FACE (structure) B/U/S/C/NV											
RIGHT BANK-FACE (structure) B/U/S/C/NV											
RIGHT BANKTOP (structure within 1m) B/U/S/C/NV											
LAND-USE WITHIN 5m OF RIGHT BANKTOP											
<b>G CHANNEL VEGETATION TYPES</b> (to be assessed over a 10m wide transect: use E (≥ 33% area), ✓(present) or NV (not visible))											
None (✓) or Not Visible (NV)											
Liverworts/mosses/lichens											
Emergent broad-leaved herbs											
Emergent reeds/sedges/rushes/grasses/horsetails											
Floating-leaved (rooted)											
Free-floating											
Amphibious											
Submerged broad-leaved											
Submerged linear-leaved											
Submerged fine-leaved											
Filamentous algae											
Use end column for overall assessment over 500m, including types not occurring in spot-checks (use ✓, E or NV) ————— ↑											

SITE REF.	<b>RIVER HABITAT SURVEY : 500m SWEEP-UP</b>				<b>Page 3 of 4</b>		
<b>H LAND-USE WITHIN 50m OF BANKTOP</b> Use ✓ (present) or E (≥ 33% banklength)							
	L	R		L	R		
Broadleaf/mixed woodland (semi-natural) (BL)			Natural open water (OW)				
Broadleaf/mixed plantation (BP)			Rough/unimproved grassland/pasture (RP)				
Coniferous woodland (semi-natural) (CW)			Improved/semi-improved grassland (IG)				
Coniferous plantation (CP)			Tall herb/rank vegetation (TH)				
Scrub & shrubs (SH)			Rock, scree or sand dunes (RD)				
Orchard (OR)			Suburban/urban development (SU)				
Wetland (e.g. bog, marsh, fen) (WL)			Tilled land (TL)				
Moorland/heath (MH)			Irrigated land (IL)				
Artificial open water (AW)			Parkland or gardens (PG)				
			Not visible (NV)				
<b>I BANK PROFILES</b> Use ✓ (present) or E (≥ 33% banklength)							
<b>Natural/unmodified</b>	L	R	<b>Artificial/modified</b>	L	R		
Vertical/undercut 			Resectioned (reprofiled) 				
Vertical with toe 			Reinforced - whole 				
Steep (>45°) 			Reinforced - top only 				
Gentle 			Reinforced - toe only 				
Composite 			Artificial two-stage 				
Natural berm 			Poached bank 				
			Embanked 				
			Set-back embankment 				
<b>J EXTENT OF TREES AND ASSOCIATED FEATURES</b> *record even if <1%							
<b>TREES</b> (tick one box per bank)			<b>ASSOCIATED FEATURES</b> (tick one box per feature)				
	Left	Right		None	Present	E (≥33%)	
None	<input type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	*Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	*Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	*Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Large woody debris	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>K EXTENT OF CHANNEL AND BANK FEATURES</b> (tick one box for each feature) *record even if <1%							
	None	Present	E(≥33%)		None	Present	E(≥33%)
*Free fall flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chute flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Broken standing waves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated bedrock/boulders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unbroken standing waves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rippled flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Upwelling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mature island(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Smooth flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No perceptible flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No flow (dry)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated point bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marginal deadwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated point bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eroding cliff(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Unvegetated silt deposit(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stable cliff(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Discrete unvegetated sand deposit(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				*Discrete unvegetated gravel deposit(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SITE REF.	<b>RIVER HABITAT SURVEY : DIMENSIONS AND INFLUENCES</b> <span style="float: right;">Page 4 of 4</span>			
<b>L CHANNEL DIMENSIONS</b> (to be measured at one location on a straight uniform section, preferably across a riffle)				
LEFT BANK		CHANNEL		RIGHT BANK
Banktop height (m)		Bankfull width (m)		Banktop height (m)
Is banktop height also bankfull height? (Y or N)		Water width (m)		Is banktop height also bankfull height? (Y or N)
Embanked height (m)		Water depth (m)		Embanked height (m)
If trashline lower than banktop, indicate: height above water (m) = _____ width from bank to bank (m) = _____				
Bed material at site is: consolidated <input type="checkbox"/> unconsolidated (loose) <input type="checkbox"/> unknown <input type="checkbox"/>				
Location of measurements is: riffle <input type="checkbox"/> other <input type="checkbox"/> (state)				
<b>M FEATURES OF SPECIAL INTEREST</b> Use ✓ or E (> 33% length) *record even if <1%				
None <input type="checkbox"/>	Very large boulders (>1m) <input type="checkbox"/>	Backwater(s) <input type="checkbox"/>	Marsh(es) <input type="checkbox"/>	
Braided channels <input type="checkbox"/>	*Debris dam(s) <input type="checkbox"/>	Floodplain boulder deposits <input type="checkbox"/>	Flush(es) <input type="checkbox"/>	
Side channel(s) <input type="checkbox"/>	*Leafy debris <input type="checkbox"/>	Water meadow(s) <input type="checkbox"/>	Natural open water <input type="checkbox"/>	
*Natural waterfall(s) > 5m high <input type="checkbox"/>	Fringing reed-bank(s) <input type="checkbox"/>	Fen(s) <input type="checkbox"/>	Others (state) <input type="checkbox"/>	
*Natural waterfall(s) < 5m high <input type="checkbox"/>	Quaking bank(s) <input type="checkbox"/>	Bog(s) <input type="checkbox"/>		
Natural cascade(s) <input type="checkbox"/>	*Sink hole(s) <input type="checkbox"/>	Wet woodland(s) <input type="checkbox"/>		
<b>N CHOKED CHANNEL</b> (tick one box)				
Is 33% or more of the channel choked with vegetation? No <input type="checkbox"/> Yes <input type="checkbox"/>				
<b>O NOTABLE NUISANCE PLANT SPECIES</b> Use ✓ or E (> 33% length) *record even if <1%				
		bankface    banktop to 50m		
None <input type="checkbox"/>	*Giant hogweed <input type="checkbox"/>	<input type="checkbox"/>	*Himalayan balsam <input type="checkbox"/>	<input type="checkbox"/>
	*Japanese knotweed <input type="checkbox"/>	<input type="checkbox"/>	*Other (state)..... <input type="checkbox"/>	<input type="checkbox"/>
<b>P OVERALL CHARACTERISTICS</b> (Circle appropriate words, add others as necessary)				
<b>Major impacts:</b> landfill - tipping - litter - sewage - pollution - drought - abstraction - mill - dam - road - rail - industry - housing mining - quarrying - overdeepening - afforestation - fisheries management - silting - waterlogging - hydroelectric power				
<b>Evidence of recent management:</b> dredging - bank mowing - weed cutting - enhancement - river rehabilitation - gravel extraction - other (please specify)				
<b>Animals:</b> otter - mink - water vole - kingfisher - dipper - grey wagtail - sand martin - heron - dragonflies/damselflies				
<b>Other significant observations:</b> if necessary use separate sheet to describe overall characteristics and relevant observations				
<b>Q ALDERS</b> (tick one box in each of the two categories) *record even if <1%				
*Alders? None <input type="checkbox"/> Present <input type="checkbox"/> Extensive <input type="checkbox"/>		*Diseased Alders? None <input type="checkbox"/> Present <input type="checkbox"/> Extensive <input type="checkbox"/>		
<b>R FIELD SURVEY QUALITY CONTROL</b> ( ✓ boxes to confirm checks)				
Have you taken at least two photos that illustrate the general character of the site and additional photos of any weirs/ sluices and major/intermediate structures across the channel? <input type="checkbox"/>				
Have you completed all ten spot-checks and made entries in all boxes in E & F on page 2? <input type="checkbox"/>				
Have you completed column 11 of section G (and E if appropriate) on page 1? <input type="checkbox"/>				
Have you recorded in section C the number of riffles, pools and point bars (even if 0) on page 1? <input type="checkbox"/>				
Have you given an accurate (alphanumeric) grid reference for spot-checks 1, 6 and end of site (page 1)? <input type="checkbox"/>				
Have you stated whether spot-check 1 is at the upstream or downstream end of the site (top of page 2)? <input type="checkbox"/>				
Have you cross-checked your spot-check and sweep-up responses with the channel modification indicators given on page 2 of the spot-check key? <input type="checkbox"/>				