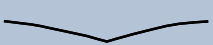


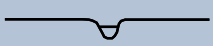

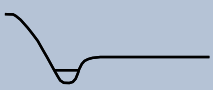


Annex 1 – U.K. Standard RHS form 1997 version and spot-check key

1997 RIVER HABITAT SURVEY		Page 1 of 4	
A BACKGROUND MAP-BASED INFORMATION			
Altitude (m)	Slope (m/km)	Flow category (1 - 10)	
Solid geology code	Drift geology code	Planform category	
Distance from source (km)	Significant tributary ?	Navigation ?	
Height of source (m)	Water Quality Class		
B FIELD SURVEY DETAILS			
Site Number :	Mid-site Grid Reference :	River :	
Date/...../1997	Time	Surveyor name	
Accredited Surveyor ?	No <input type="checkbox"/> Yes <input type="checkbox"/>	If yes, state code	
Adverse conditions affecting survey ?	No <input type="checkbox"/> Yes <input type="checkbox"/>	If yes, state	
Bed of river visible ?	No <input type="checkbox"/> partially <input type="checkbox"/> entirely <input type="checkbox"/>	(tick one box)	
Duplicate photographs : general character ?	No <input type="checkbox"/> Yes <input type="checkbox"/>	(tick one box)	
Site surveyed from :	left bank <input type="checkbox"/> right bank <input type="checkbox"/> channel <input type="checkbox"/>	(tick as appropriate)	
SERCON survey in addition?	No <input type="checkbox"/> Yes <input type="checkbox"/>	(tick one box)	
C PREDOMINANT VALLEY FORM (tick one box only)			
	<input type="checkbox"/> shallow vee		<input type="checkbox"/> concave/bowl <i>(If U-shaped glacial valley - add "U")</i>
	<input type="checkbox"/> deep vee		<input type="checkbox"/> symmetrical floodplain
	<input type="checkbox"/> gorge		<input type="checkbox"/> asymmetrical floodplain

Terraced valley floor ?	No <input type="checkbox"/> Yes <input type="checkbox"/>		
D NUMBER OF RIFFLES, POOLS AND POINT BARS (indicate total number)			
Riffles	Unvegetated point bars		
Pools	Vegetated point bars		

1997 RIVER HABITAT SURVEY : TEN SPOT-CHECKS

Spot-check 1 is at: upstream end downstream end of site (tick one box)

E PHYSICAL ATTRIBUTES (to be assessed across channel within 1m wide transect)

1 = one entry only	1	2	3	4	5	6	7	8	9	10	
LEFT BANK	<i>Ring EC or SC if composed of sandy substrate</i>										↑ Enter channel substrates: not occurring in spot-checks but present in >1% whole site.
Material ¹ NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, BW											
Bank modification(s) NK, NO, RS, RI, PC(B), BM, EM											
Bank feature(s) NV, NO, EC, SC, PB, VP, SB, VS											
CHANNEL	<i>GP- ring either G or P if predominant</i>										
Channel substrate ¹ NV, BE, BO, CO, GP, SA, SI, CL, PE, AR											
Flow type ¹ FF, CH, BW, UW, CF, RP, UP, SM, NP, NO											
Channel modification(s) NK, NO, CV, RS, RI, DA, FO											
Channel feature(s) NV, NO, RO, MB, VB, MI, TR											
RIGHT BANK	<i>Ring EC or SC if composed of sandy substrate</i>										
Material ¹ NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, BW											
Bank modification(s) NK, NO, RS, RI, PC(B), BM, EM											
Bank feature(s) NV, NO, EC, SC, PB, VP, SB, VS											

F BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide transect)

Land use : choose one from BL, CP, OR, MH, SC, TH, RP, IG, TL, WL, OW, SU, RS

LAND USE WITHIN 5m OF LEFT BANKTOP	1	2	3	4	5	6	7	8	9	10	
LEFT BANKTOP (structure within 1m) B/U/S/C											↑ Enter channel substrates: not occurring in spot-checks but present in >1% whole site.
LEFT BANK FACE (structure) B/U/S/C											
RIGHT BANK FACE (structure) B/U/S/C											
RIGHT BANKTOP (structure within 1m) B/U/S/C											
LAND USE WITHIN 5m OF RIGHT BANKTOP											

G CHANNEL VEGETATION TYPES (to be assessed over a 10m wide transect : use E (> 33% area) or ✓(present)

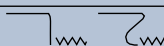
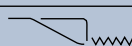


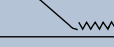


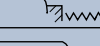
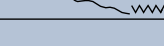
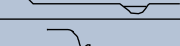
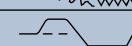
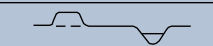
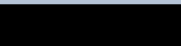
NONE	1	2	3	4	5	6	7	8	9	10	
Liverworts/mosses/lichens											↑ Use end "catch-all" column for types not occurring in spot checks as well as overall assessment over 500m (use E or ✓)
Emergent broad-leaved herbs											
Emergent reeds/sedges/rushes											
Floating-leaved (rooted)											
Free-floating											
Amphibious											
Submerged broad-leaved											
Submerged linear-leaved											
Submerged fine-leaved											
Filamentous algae											

Use end "catch-all" column for types not occurring in spot checks as well as overall assessment over 500m (use E or ✓)

H LAND USE WITHIN 50m OF BANKTOP Use E (≥ 33% banklength) or ✓(present)

	L	R		L	R
Broadleaf/mixed woodland (BL)			Rough pasture (RP)		
Coniferous plantation (CP)			Improved/semi-improved grass (IG)		
Orchard (OR)			Tilled land (TL)		
Moorland/heath (MH)			Wetland (eg bog, marsh, fen) (WL)		
Scrub (SC)			Open water (OW)		
Tall herbs /rank vegetation (TH)			Suburban/urban development (SU)		
			Rock and scree (RS)		

I BANK PROFILES Use E (≥ 33% banklength) or ✓(present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut 			Resectioned 		
Vertical + toe 			Reinforced - whole bank 		
Steep (>45°) 			Reinforced - top only 		
Gentle 			Reinforced - toe only 		
Composite 			Artificial two-stage 		
			Poached 		
			Embanked 		
			Set-back embankments 		

J EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)			ASSOCIATED FEATURES (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"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input type="checkbox"/>

K EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present	E(>33%)		None	Present	E(>33%)
Waterfall(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cascade(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rapid(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Riffle(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Run(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boil(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mature island(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Glide(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pool(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ponded Reach(es)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Discrete silt deposit(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Discrete sand deposit(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

L CHANNEL DIMENSIONS (to be measured at one site 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 is lower than banktop break in slope, indicate: height above water (m) =					
Bed material at site is: consolidated (compact) <input type="checkbox"/> unconsolidated (loose) <input type="checkbox"/> unknown <input type="checkbox"/>					
Location of measurement is: riffle <input type="checkbox"/> run or glide <input type="checkbox"/> other <input type="checkbox"/>					

M ARTIFICIAL FEATURES (indicate total number or tick appropriate box)

None <input type="checkbox"/>		Major	Intermediate	Minor		Major	Intermediate	Minor
	Weirs					Revetments		
	Sluices					Outfalls		
	Culverts					Fords		
	Bridges					Deflectors		
						Other (state)		

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

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box(es))

None Dredging Mowing Weed-cutting
 Enhancement Other (state).....

O FEATURES OF SPECIAL INTEREST (use √ or E (≥ 33% length))

None
 Waterfalls > 5m high Artificial open water Bog Fringing reed-bank
 Braided/side channels Natural open water Carr Floating mat
 Debris dams Water meadow Marsh Other (state).....
 Leafy debris Fen Flush

P CHOKED CHANNEL (tick one box)

Is 33% or more of the channel choked with vegetation? No Yes

Q NOTABLE NUISANCE PLANT SPECIES (Use √ or E (≥ 33% length))

None Giant Hogweed Himalayan Balsam Japanese Knotweed Other (state).....

R OVERALL CHARACTERISTICS (Circle appropriate words, add others as necessary)

Major impacts: landfill - tipping - litter - sewage - pollution - drought - abstraction - mill - dam - road - rail - industry - housing - mining - quarrying - overdeepening - afforestation - fisheries management - silting

Land Management: set-aside - buffer strip - headland - abandoned land - parkland - MoD

Animals: otter - mink - water vole - kingfisher - dipper - grey wagtail - sand martin - heron - dragonflies/damselflies

Other significant observations:

S ALDERS (tick appropriate box(es))

Alders? None Present Extensive Diseased Alders? None Present Extensive

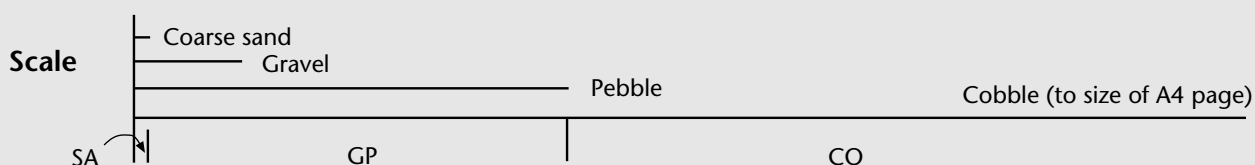
PHYSICAL ATTRIBUTES (SECTION E)

BANKS		CHANNEL	
<p>Predominant bank material</p> <p>NV = not visible</p> <p>BE = bedrock BO = boulder CO = cobble GS = gravel/sand EA = earth (crumbly) EA = earth CL = sticky clay</p> <p>CC = concrete SP = sheet piling WP = wood piling GA = gabion BR = brick/laid stone RR = rip-rap BW = builders' waste</p>	<p>Bank modifications</p> <p>NK = not known NO = none</p> <p>RS = resectioned RI = reinforced PC = poached PC(B) = poached (bare) BM = berm EM = embanked</p> <p>Bank features</p> <p>NV = not visible (eg far bank) NO = none</p> <p>EC = eroding earth cliff SC = stable earth cliff</p> <p>PB = unvegetated point bar VP = vegetated point bar</p> <p>SB = unvegetated side bar VS = vegetated side bar</p>	<p>Predominant substrate</p> <p>NV = not visible</p> <p>BE = bedrock BO = boulder CO = cobble GP = gravel/pebble (ring G or P if predominant) SA = sand SI = silt/mud CL = clay PE = peat AR = artificial</p> <p>Predominant flow (see below)</p> <p>FF = freefall CH = chute BW = broken standing waves (white-water) UW = unbroken standing wave CF = chaotic flow RP = rippled UP = upwelling SM = smooth NP = no perceptible flow NO = No flow (dry)</p>	<p>Channel modifications</p> <p>NK = not known NO = none</p> <p>CV = culverted RS = resectioned RI = reinforced DA = dam/weir FO = ford (man-made)</p> <p>Channel features</p> <p>NV = not visible NO = none</p> <p>RO = exposed bedrock/boulders MB = unvegetated mid channel bar MB = unvegetated mid-channel bar VB = vegetated mid-channel bar VB = vegetated mid-channel bar MI = mature island TR = urban debris (trash)</p>

FLOW TYPES

ASSOCIATED CHANNEL FEATURES









FF: Free fall	clearly separates from back-wall of vertical feature ~ associated with waterfalls.
CH: Chute	low curving fall in contact with substrate.
BW: Broken standing waves	white-water tumbling wave must be present ~ associated with <i>rapids</i> .
UW: Unbroken standing waves	upstream facing wavelets which are not broken ~ associated with <i>riffles</i>
CF: Chaotic flow	a mixture of 3 or more 'rough' flow types on no organised pattern.
RP: Rippled	no waves, but general flow direction is downstream with disturbed rippled surface ~ associated with <i>runs</i> .
UP: Upwelling	heaving water as upwellings break the surface ~ associated with <i>boils</i> .
SM: Smooth	perceptible downstream movement is smooth (no eddies) ~ associated with <i>glides</i> .
NP: No perceptible flow	no net downstream flow ~ associated with <i>pools, ponded reaches and marginal deadwater</i> .
NO: No flow	dry.



LAND USE WITHIN 5m OF BANKTOP (SECTION F)

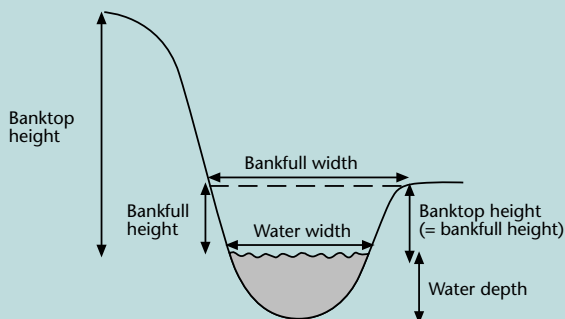
BL = Broadleaf/mixed woodland	SC = Scrub	TL = Tilled land
CP = Coniferous/plantation	TH = Tall herbs	WL = Wetland
OR = Orchard	RP = Rough pasture	OW = Open water
MH = Moorland/heath	IG = Improved grass	SU = Suburban/urban
		RS = Rock & scree

BANKTOP AND BANKFACE VEGETATION STRUCTURE To be assessed within a 10m wide transect (SECTION F)

bare	B	bare earth/rock etc.	vegetation types
uniform 	U	predominantly one type (no scrub or trees)	 bryophytes  short herbs/creeping grasses
simple 	S	two or three vegetation types	 tall herbs/grasses  scrub/brambles etc.
complex 	C	four or more types	 saplings and trees

Channel dimensions guidance (Section L)

- Select location on uniform section.
- If riffle is present, measure there. If not, measure at straightest and shallowest point.
- Banktop = first major break in slope above which cultivation or development is possible.
- Bankfull = point where river first spills onto flood plain.



WORKING ALONE: CHECKLIST

- | | |
|--|---|
| <ul style="list-style-type: none"> • PREPARATION • IMPLEMENT REPORTING-IN PROCEDURE • WEAR PROTECTIVE CLOTHING • DO NOT RUSH | <ul style="list-style-type: none"> • NEVER ENTER CONFINED SPACES • OBSERVE HYGIENE RULES • WATCH FOR CHANGING CONDITIONS |
|--|---|

WEIL'S DISEASE

INSTRUCTION TO CARD HOLDERS

1. As infection may enter through breaks in the skin ensure that any cut, scratch or abrasion is thoroughly cleansed and covered with a waterproof plaster.
2. Avoid rubbing your eyes, nose and mouth during work.
3. Clean protective clothing, footwear and equipment etc., after use.
5. Report all accidents and/or injuries however slight.
6. Keep your card with you at all times.



ENVIRONMENT AGENCY

EMERGENCY HOTLINE 0800 80 70 60

24 hour free emergency telephone line for reporting all environmental incidents relating to air, land and water.

Annex 2 – South Europe RHS form

Spot-Check1 is at: upstream downstream of site

primary secondary

Physical attributes (to be assessed across channel within 1 m wide transect)

Total channel width (including bars; excluding bank face)		1	2	3	4	5	6	7	8	9	10	
Left bank		Ring EC or SC if composed of sandy substrate										
Material (NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, BW)												
Bank modification (NK, NO, RS, RI(N), PC(B), BM, EM)												
Bank feature (NV, NO, EC, SC, PB, VP, SB, VS)												
Number of wetted channels												
Main Channel (highest discharge)		GP-Ring either G or P if predominant										
Channel position (Left, Centre, Right):												
Water width (m)												
Channel substrate (NV, BE, BO, CO, GP, SA, SI, CL, PE, AR)												
Flow type (FF, CH, BW, UW, CF, RP, UP, SM, NP, NO)												
Channel modification (NK, NO, CV, RS, RI, DA, FO)												
Channel feature (NV, NO, RO, MB, VB, MI, TR)												
Secondary Channel		GP-Ring either G or P if predominant										
Channel position (Left, Centre, Right):												
Water width (m)												
Channel substrate (NV, BE, BO, CO, GP, SA, SI, CL, PE, AR)												
Flow type (FF, CH, BW, UW, CF, RP, UP, SM, NP, NO)												
Channel modification (NK, NO, CV, RS, RI, DA, FO)												
Channel feature (NV, NO, RO, MB, VB, MI, TR)												
Right bank		Ring EC or SC if composed of sandy substrate										
Material (NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, BW)												
Bank modification (NK, NO, RS, RI(N), PC(B), BM, EM)												
Bank feature (NV, NO, EC, SC, PB, VP, SB, VS)												
Banktop land use and vegetation structure		(to be assessed over a 10 m wide transect)										
Land use: choose one from BL, CP, OR, MH, SC, TH, RP, IG, TL, WL, OW, SU, RS												
Land use within 5m of left banktop												
Left banktop (B, U, S, C)												
Left bank face (B, U, S, C)												
Right bank face (B, U, S, C)												
Right banktop (B, U, S, C)												
Land use within 5m of right banktop												
Channel vegetation types		to be assessed over a 10 m wide transect: use E (>33% area) or tick if present										
none												
liverworts/mosses/lichens												
emergent broad-leaved herbs												
emergent reeds/sedges/rushes												
floating-leaved (rooted)												
free-floating												
amphibious												
submerged broad-leaved												
submerged linear-leaved												
submerged fine-leaved												
filamentous algae												

EM whole stretch

Enter channel substrate/flow type not occurring in spot checks but present in >1% whole site

EM whole stretch

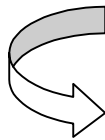
Use end "catch-all" column for types not occurring in spot-checks as well as overall assessment over 500 m: use E (>33% area) or tick if present.

main channel secondary channel

Annex 3 – Key to determine when the application of SE_RHS may result especially useful for STAR purposes

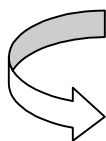
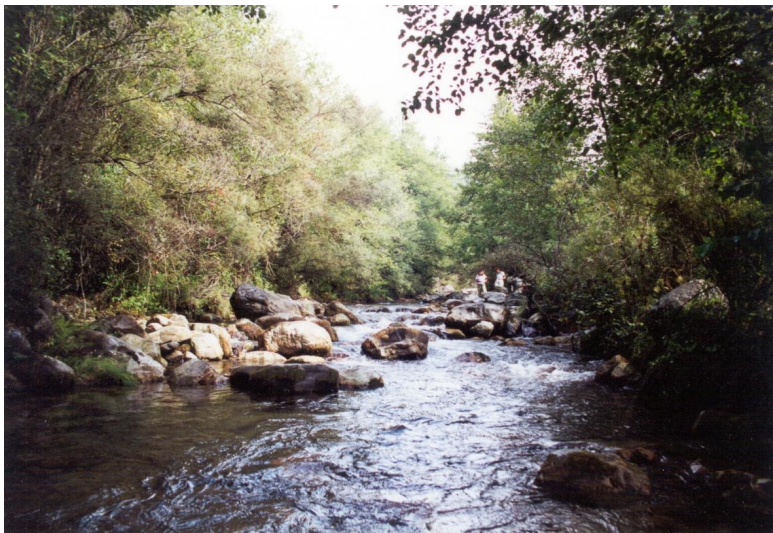
**KEY TO DETERMINE WHEN THE APPLICATION OF SE_RHS MAY RESULT
ESPECIALLY USEFUL FOR STAR PURPOSES**

1. a. One or more wetted secondary channels are present in the river
..... **South Europe RHS**



SE_RHS

1. b. No wetted secondary channels are present in the river.....**2**



2

2. a. Wetted channel width < 50% Total channel width (not including bankface)
.....South Europe RHS



SE_RHS

2. b. Wetted channel width > 50% Total channel width (not including bankface) 3



3

3. a. Wetted channel width < 70% Total channel width (not including bankface)
..... **South Europe RHS (optional)**



SE_RHS
(optional)

3. b. Wetted channel width > 70% Total channel width (not including bankface)
..... **Standard RHS**



Standard RHS

Annex 4 - U.K. Standard RHS form 2002 version

A FIELD SURVEY DETAILS

Site Number : leave blank Mid-site Grid Reference/coordinates :

Site Reference : Reach Reference : River :

Date/...../20... Time Surveyor name

Accredited Surveyor code:

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

Health and safety assessment completed? No Yes



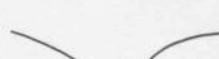


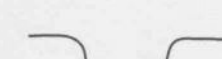

Adverse conditions affecting survey? No Yes If yes, state

Bed of river visible ? No partially entirely (tick one box)

Duplicate photographs showing general character? No Yes (tick one box)

Site surveyed from : left bank right bank channel (tick as appropriate)

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

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

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

C NUMBER OF RIFFLES, POOLS AND POINT BARS (indicate total number)

Riffles	Unvegetated point bars
Pools	Vegetated point bars

D ARTIFICIAL FEATURES (indicate total number or tick appropriate box)

None	Major	Intermediate	Minor	Major	Intermediate	Minor
<input type="checkbox"/>	Weirs			Outfalls		
	Sluices			Fords		
	Culverts			Deflectors/ groynes/croys		
	Bridges			Other (state)		

Is channel realigned? No Yes, <33% of site >33% of site

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

Spot-check 1 is at : upstream end downstream end of site (tick one box)

E PHYSICAL ATTRIBUTES (to be assessed across channel within 1m wide transect)

¹ = one entry only

LEFT BANK

Ring EC or SC if composed of sandy substrate

Material ¹ NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, BW, FA, BI

Bank modification(s) NK, NO, RS, RI, PC(B), BM, EM

Bank feature(s) NV, NO, EC, SC, PB, VP, SB, VS, NB

CHANNEL

GP- ring either G or P if predominant

Channel substrate ¹ NV, BE, BO, CO, GP, SA, SI, CL, PE, AR

Flow type ¹ FF, CH, BW, UW, CF, RP, UP, SM, NP, DR

Channel modification(s) NK, NO, CV, RS, RI, DA, FO

Channel feature(s) NV, NO, RO, MB, VB, MI, TR, VR, EB

For braided rivers only: number of sub-channels

Wet
Dry

RIGHT BANK

Ring EC or SC if composed of sandy substrate

Material¹ NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, BW, FA, BI

Bank modification(s) NK, NO, RS, RI, PC(B), BM, EM

Bank feature(s) NV, NO, EC, SC, PB, VP, SB, VS, NB

F BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide transect)

Land use : choose one from BL, CP, OR, MH, SC, TH, RP, IG, TL, WL, OW, SU, RS, BP, CW, IL, AW, PG, NK

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

G CHANNEL VEGETATION TYPES (to be assessed over a 10m wide transect :use E (≥ 33% area) or ✓(present) or NV (not visible))

NONE (✓) or Not Visible (NV)

Liverworts/mosses/lichens

Emergent broad-leaved herbs

Emergent reeds/sedges/rushes

Floating-leaved (rooted)

Free-floating

Amphibious

Submerged broad-leaved

Submerged linear-leaved

Submerged fine-leaved

Filamentous algae

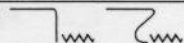

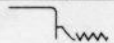
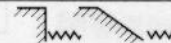

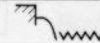

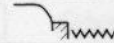

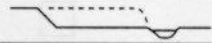

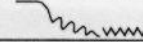


Enter channel substrates not occurring in spot-checks but present in > 1% whole site.

Use end column for overall assessment over 500m including types not occurring in spot checks (use E or ✓ or NV)

H LAND USE WITHIN 50m OF BANKTOP Use E ($\geq 33\%$ banklength) or \checkmark (present)

	L	R		L	R
Broadleaf/mixed woodland semi-natural (BL)			Improved/semi-improved grass (IG)		
Broadleaf/mixed woodland- planted (BP)			Tilled land (TL)		
Coniferous forest semi-natural (CW)			Wetland (eg bog, marsh, fen) (WL)		
Coniferous plantation (CP)			Natural open water (OW)		
Orchard (OR)			Artificial open water (AW)		
Moorland/heath (MH)			Irrigated land (IL)		
Scrub (SC)			Parkland and gardens (PG)		
Tall herbs /rank vegetation (TH)			Suburban/urban development (SU)		
Rough/unimproved grassland/pasture (RP)			Rock, scree and sand dunes (RS)		

I BANK PROFILES Use E ($\geq 33\%$ banklength) or \checkmark (present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut 			Resectioned 		
Vertical + toe 			Reinforced - whole bank 		
Steep (>45°) 			Reinforced - top only 		
Gentle 			Reinforced - toe only 		
Composite 			Artificial two-stage 		
Natural berm 			Poached 		
			Embanked 		
			Set-back embankments 		

J EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)			ASSOCIATED FEATURES (tick one box per feature)			
	Left	Right		None	Present	E ($\geq 33\%$)
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"/>	Coarse woody debris	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

K EXTENT OF BANK AND CHANNEL FEATURES (tick one box per feature)

	None	Present	E ($\geq 33\%$)		None	Present	E ($\geq 33\%$)
Free fall (Waterfall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chute (Cascade)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Broken standing waves (Rapid)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated bedrock/boulders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unbroken standing waves (Riffle)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rippled (Run)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bar(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Upwelling (Boil)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mature island(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Smooth (Glide)	<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 (Pool)	<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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Discrete silt deposit(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stable Cliff	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Discrete sand deposit(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

L CHANNEL DIMENSIONS (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 is lower than banktop break in slope, indicate: height above water (m) = _____

Bed material at site is: consolidated (compact) unconsolidated (loose) unknown

Location of measurement is: riffle run or glide other

M FEATURES OF INTEREST use ✓ or E (> 33% length)

None <input type="checkbox"/>	Leafy debris <input type="checkbox"/>	Pools <input type="checkbox"/>	Very large boulders(>1m) <input type="checkbox"/>
Waterfalls > 5m high <input type="checkbox"/>	Riffles <input type="checkbox"/>	Bog <input type="checkbox"/>	Boulder fields/berms <input type="checkbox"/>
Waterfalls < 5m high <input type="checkbox"/>	Cascades <input type="checkbox"/>	Carr <input type="checkbox"/>	Fringing reed-bank <input type="checkbox"/>
Braided channels <input type="checkbox"/>	Backwater <input type="checkbox"/>	Marsh <input type="checkbox"/>	Floating mat <input type="checkbox"/>
Side channels <input type="checkbox"/>	Water meadow <input type="checkbox"/>	Flush <input type="checkbox"/>	Other (state)..... <input type="checkbox"/>
Debris dams <input type="checkbox"/>	Fen <input type="checkbox"/>	Oxbow lakes <input type="checkbox"/>	

N CHOKED CHANNEL (tick one box)

Is 33% or more of the channel choked with vegetation? No Yes

O NOTABLE NUISANCE PLANT SPECIES Use ✓ or E (> 33% length)

	bankface/banktop	5-50m banktop	bankface/banktop	5-50m banktop
None <input type="checkbox"/>	Giant Hogweed <input type="checkbox"/>	<input type="checkbox"/>	Other (state)..... <input type="checkbox"/>	<input type="checkbox"/>
	Japanese Knotweed <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
	Himalayan Balsam <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
	Laurel <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
	Rhododendron <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>

P OVERALL CHARACTERISTICS (Circle appropriate words, add others as necessary)

Major impacts: landfill - tipping - litter - sewage - pollution - drought - abstraction - mill - dam - road - rail - industry housing - mining - quarrying - overdeepening - afforestation - fisheries management - silting - rice plantation - waterlogging - briglia - sparran

Evidence of recent management: dredging - bank-mowing - weed cutting - enhancement - river restoration - rehabilitation - gravel extraction

Animals: otter - mink - water vole - kingfisher - dipper - grey wagtail - sand martin - heron - dragonflies/damselflies

Other significant observations:

Q ALDERS (tick appropriate box(es))

Alders? None Present Extensive Diseased Alders? None Present Extensive