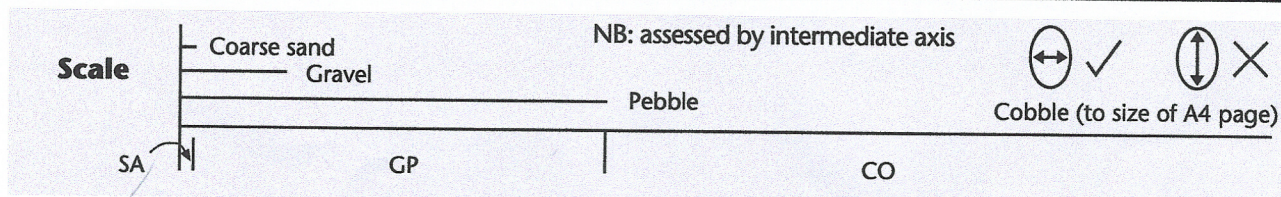


RIVER HABITAT SURVEY 2003 VERSION: SITE HEALTH AND SAFETY ASSESSMENT			
Site Number ¹ : 1	Site Ref:	River Name: VALE DASTFORDS	Date: 15.4.2026
Grid References/Co-ordinates:	Spot 1 ² :	Mid-site:	End of site ² :
Surveyor Name: MJFuo		Accredited Surveyor Code: XXXXXXXX	
¹ Leave blank if new site.		² Optional	
Weather Conditions: Good			
Flow Conditions: Good			
Site details: (enter comments or circle if applicable and give details)			Risk Level (Low/Mod/High)
Access and Parking: (entry & exit)			Low
Conditions: comment on ground stability, footing, exposure/remoteness			Low
Obstacles/Hazards: fencing, stiles, dense vegetation, steep bank			Low
Occupied/Unoccupied: people, livestock, animals			Low
Activities/Land-use: agriculture, woodland, residential, industrial, construction, recreational			Urban
Risk if lone-working			Low
IF THERE ARE ANY HIGH RISKS OR MORE THAN THREE MODERATE RISKS DO NOT CONTINUE WITH THE SURVEY.			
Weil's Disease (Leptospirosis) <u>Instructions to card holders</u> 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 4. After work, and particularly before taking food or drink, wash hands thoroughly. 5. Report all accidents and/or injuries, however slight. 6. Keep your card with you at all times.			
Lyme Disease 1. Dress appropriately with skin covered up. 2. Regularly inspect for ticks when in the field. 3. Check for, and remove, any ticks as soon as possible after leaving the site. 4. Seek medical attention if bitten by a tick.			

PHYSICAL ATTRIBUTES (SECTION E)

BANKS		CHANNEL	
Predominant bank material NV = not visible BE = bedrock BO = boulder CO = cobble GS = gravel/sand EA = earth (crumbly) PE = peat CL = sticky clay CC = concrete SP = sheet piling WP = wood piling GA = gabion BR = brick/laid stone RR = rip-rap TD = tipped debris FA = fabric BI = bio-engineering materials	Bank modifications NK = not known NO = none RS = resectioned (reprofiled) RI = reinforced PC = poached PC(B) = poached (bare) BM = artificial berm EM = embanked Marginal and bank features NV = not visible (e.g. far bank) NO = none EC = eroding cliff (EC if sandy substrate) SC = stable cliff (SC if sandy substrate) PB = unvegetated point bar VP = vegetated point bar SB = unvegetated side bar VS = vegetated side bar NB = natural berm	Predominant substrate NV = not visible BE = bedrock BO = boulder CO = cobble GP = gravel/pebble (C or P if predominant) SA = sand SI = silt CL = clay PE = peat EA = earth AR = artificial Predominant flow-type NV = not visible FF = free fall CH = chute BW = broken standing waves (white water) UW = unbroken standing waves CF = chaotic flow RP = rippled UP = upwelling SM = smooth NP = no perceptible flow DR = no flow (dry)	Channel modifications NK = not known NO = none CV = culverted RS = resectioned RI = reinforced DA = dam/weir/slucice FO = ford (man-made) Channel features NV = not visible NO = none EB = exposed bedrock RO = exposed boulders VR = vegetated rock MB = unvegetated mid-channel bar VB = vegetated mid-channel bar MI = mature island TR = Trash (urban debris)
FLOW-TYPES FF: Free fall CH: Chute BW: Broken standing waves UW: Unbroken standing waves CF: Chaotic flow RP: Rippled UP: Upwelling SM: Smooth NP: No perceptible flow DR: No flow (dry)		DESCRIPTION clearly separates from back-wall of vertical feature ~ associated with waterfalls low curving fall in contact with substrate ~ often associated with cascades white-water tumbling waves must be present ~ mostly associated with rapids upstream facing wavelets which are not broken ~ mostly associated with riffles a chaotic mixture of three or more of the four fast flow-types with no predominant one obvious no waves, but general flow direction is downstream with disturbed rippled surface ~ mostly associated with runs heaving water as upwellings break the surface ~ associated with boils. perceptible downstream movement is smooth (no eddies) ~ mostly associated with glides no net downstream flow ~ associated with pools, ponded reaches and marginal deadwater dry river bed	



LEFT

Banks are determined by looking downstream

RIGHT

CHANNEL MODIFICATION INDICATORS

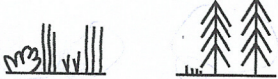
One or more of the following may be indicative of resectioning:

- | | |
|--|---|
| 1. Uniform bank profile | 4. Uniform/low energy flow-types |
| 2. Straightened planform | 5. No trees/uniformly-aged trees along bank |
| 3. Bankfull width/bankfull height ratio <4:1 | 6. Intensive/urban land-use |

LAND-USE WITHIN 5m OF BANKTOP (SECTION F) & 50m (SECTION H)

BL = Broadleaf/mixed woodland (semi-natural)	AW = Artificial open water	TL = Tilled land
BP = Broadleaf/mixed plantation	OW = Natural open water	IL = Irrigated land
CW = Coniferous woodland (semi-natural)	RP = Rough unimproved grassland/pasture	PG = Parkland or gardens
CP = Coniferous plantation	IG = Improved/semi-improved grassland	NV = Not visible
SH = Scrub & shrubs	TH = Tall herb/rank vegetation	
OR = Orchard	RD = Rock, scree or sand dunes	
WL = Wetland (e.g. bog, marsh, fen)	SU = Suburban/urban development	
MH = Moorland/heath		

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/creeping herbs or grasses
simple 	S	two or three vegetation types	 tall herbs/grasses  scrub or shrubs
complex 	C	four or more types	 saplings and trees

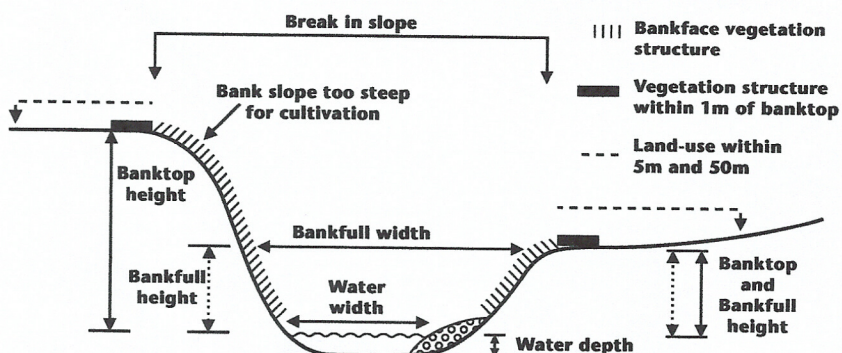
Channel dimensions guidance (Section L)

- 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 on to floodplain.

Cross-section of channel showing definitions used to define where spot-check recording and channel dimensions measured



**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.

A FIELD SURVEY DETAILS

Site Number: 1 leave blank if new site

Site Reference:

Spot-check 1 Grid Ref: 40, 19331^N

Spot-check 6 Grid Ref: 8, 25.03N

End of site Grid Ref:

Reach Reference:

River name: R. Vale de Flores

Date 15/4/2026 Time: 11:02

Surveyor name: HJtero

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: 4

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)



☐ shallow vee



☐ deep vee



☐ gorge



☐ concave/bowl



☒ asymmetrical valley



☐ U-shape valley



☐ 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) 11

3

Pool(s) 11

3

Unvegetated point bar(s)

Vegetated point bar(s) 1

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

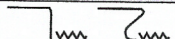
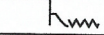
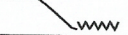
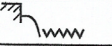
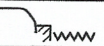
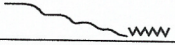
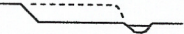
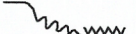
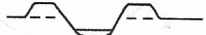
If none, tick box ☐	Major Intermediate Minor			Major Intermediate Minor		
	Major	Intermediate	Minor	Major	Intermediate	Minor
Weirs/slucices				Outfalls/intakes		
Culverts				Fords		
Bridges				Deflectors/groynes/croys		
Other - state						

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.	RIVER HABITAT SURVEY: TEN SPOT-CHECKS										Page 2 of 4
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)											
When boxes 'bordered', only one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK	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.
Material NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, TD, FA, BI	EA	BA									
Bank modification(s) NK, NO, RS, RI, PC(B), BM, EM	RI	RI									
Marginal & bank feature(s) NV, NO, EC, SC, PB, VP, SB, VS, NB	NO	MD									
CHANNEL	GP- ring either G or P if predominant										
Channel substrate NV, BE, BO, CO, GP, SA, SI, CL, PE, EA, AR	GP	CO									
Flow-type NV, FF, CH, BW, UW, CF, RP, UP, SM, NP, DR	RP	RP									
Channel modification(s) NK, NO, CV, RS, RI, DA, FO	NO	MD									
Channel feature(s) NV, NO, EB, RO, VR, MB, VB, MI, TR	VB	VB									
For braided rivers only: number of sub-channels	>	—									
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, TD, FA, BI	EA	EA									
Bank modification(s) NK, NO, RS, RI, PC(B), BM, EM	NO	MD									
Marginal & bank feature(s) NV, NO, EC, SC, PB, VP, SB, VS, NB	PB	MD									
F BANKTOP LAND-USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide transect)											
Land-use: choose one from BL, BP, CW, CP, SH, OR, WL, MH, AW, OW, RP, IG, TH, RD, SU, TL, IL, PG, NV											
LAND-USE WITHIN 5m OF LEFT BANKTOP	SU	SU									
LEFT BANKTOP (structure within 1m) B/U/S/C/NV	B	B									
LEFT BANK-FACE (structure) B/U/S/C/NV	U	S									
RIGHT BANK-FACE (structure) B/U/S/C/NV	U	U									
RIGHT BANKTOP (structure within 1m) B/U/S/C/NV	U	S									
LAND-USE WITHIN 5m OF RIGHT BANKTOP	RP	OR									
G CHANNEL VEGETATION TYPES (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	✓	E									
Emergent reeds/sedges/rushes/grasses/horsetails		E									
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.	RIVER HABITAT SURVEY : 500m SWEEP-UP				Page 3 of 4		
H LAND-USE WITHIN 50m OF BANKTOP 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)	E		Rock, scree or sand dunes (RD)				
Orchard (OR)		✓	Suburban/urban development (SU)	E	✓		
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)				
I BANK PROFILES Use ✓ (present) or E (≥ 33% banklength)							
Natural/unmodified	L	R	Artificial/modified	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 				
J EXTENT OF TREES AND ASSOCIATED FEATURES *record even if <1%							
TREES (tick one box per bank)			ASSOCIATED FEATURES (tick one box per feature)				
	Left	Right		None	Present	E (≥33%)	
None	☐	☐	Shading of channel	☐	☒	☐	
Isolated/scattered	☒	☒	*Overhanging boughs	☐	☐	☐	
Regularly spaced, single	☐	☐	*Exposed bankside roots	☐	☐	☐	
Occasional clumps	☐	☐	*Underwater tree roots	☐	☐	☐	
Semi-continuous	☐	☐	Fallen trees	☐	☐	☐	
Continuous	☐	☐	Large woody debris	☐	☒	☐	
K EXTENT OF CHANNEL AND BANK FEATURES (tick one box for each feature) *record even if <1%							
	None	Present	E(≥33%)		None	Present	E(≥33%)
*Free fall flow	☒	☐	☐	Exposed bedrock	☒	☐	☐
Chute flow	☒	☐	☐	Exposed boulders	☐	☒	☐
Broken standing waves	☐	☐	☐	Vegetated bedrock/boulders	☐	☐	☐
Unbroken standing waves	☒	☐	☐	Unvegetated mid-channel bar(s)	☐	☐	☐
Rippled flow	☐	☒	☐	Vegetated mid-channel bar(s)	☐	☒	☐
*Upwelling	☒	☐	☐	Mature island(s)	☒	☐	☐
Smooth flow	☐	☒	☐	Unvegetated side bar(s)	☒	☐	☐
No perceptible flow	☐	☒	☐	Vegetated side bar(s)	☒	☐	☐
No flow (dry)	☐	☐	☐	Unvegetated point bar(s)	☒	☒	☐
Marginal deadwater	☐	☐	☐	Vegetated point bar(s)	☐	☒	☐
Eroding cliff(s)	☐	☐	☐	*Unvegetated silt deposit(s)	☐	☐	☐
Stable cliff(s)	☐	☐	☐	*Discrete unvegetated sand deposit(s)	☐	☐	☐
				*Discrete unvegetated gravel deposit(s)	☐	☐	☐

SITE REF.	RIVER HABITAT SURVEY : DIMENSIONS AND INFLUENCES				Page 4 of 4
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)	3m	Bankfull width (m)	2m	Banktop height (m)	
Is banktop height also bankfull height? (Y or N)		Water width (m)	1.5	Is banktop height also bankfull height? (Y or N)	
Embanked height (m)		Water depth (m)	1.0m	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 ☐ unconsolidated (loose) ☐ unknown ☐					
Location of measurements is: riffle ☐ other ☐ (state)					
M FEATURES OF SPECIAL INTEREST Use ✓ or E (≥ 33% length) *record even if <1%					
None ☒	Very large boulders (>1m) ☐	Backwater(s) ☐	Marsh(es) ☐		
Braided channels ☐	*Debris dam(s) ☐	Floodplain boulder deposits ☐	Flush(es) ☐		
Side channel(s) ☐	*Leafy debris ☐	Water meadow(s) ☐	Natural open water ☐		
*Natural waterfall(s) > 5m high ☐	Fringing reed-bank(s) ☐	Fen(s) ☐	Others (state) ☐		
*Natural waterfall(s) < 5m high ☐	Quaking bank(s) ☐	Bog(s) ☐			
Natural cascade(s) ☐	*Sink hole(s) ☐	Wet woodland(s) ☐			
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) *record even if <1%					
		bankface banktop to 50m			bankface banktop to 50m
None ☐	*Giant hogweed ☐	☐	*Himalayan balsam ☐	☐	
	*Japanese knotweed ☐	☐	*Other (state)..... ☐	☐	
P OVERALL CHARACTERISTICS (Circle appropriate words, add others as necessary)					
Major impacts: landfill - tipping - litter - sewage - <u>pollution</u> - drought - abstraction - mill - dam - road - rail - industry - housing mining - quarrying - overdeepening - afforestation - fisheries management - silting - waterlogging - hydroelectric power Evidence of recent management: dredging - bank mowing - weed cutting - <u>enhancement</u> - <u>river rehabilitation</u> - gravel extraction - other (please specify) Animals: <u>otter</u> - mink - water vole - <u>kingfisher</u> - dipper - grey wagtail - sand martin - heron - dragonflies/damselflies Other significant observations: if necessary use separate sheet to describe overall characteristics and relevant observations					
Q ALDERS (tick one box in each of the two categories) *record even if <1%					
*Alders? None ☒ Present ☐ Extensive ☐			*Diseased Alders? None ☐ Present ☐ Extensive ☐		
R FIELD SURVEY QUALITY CONTROL (✓ 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? ☒					
Have you completed all ten spot-checks and made entries in all boxes in E & F on page 2? ☐					
Have you completed column 11 of section G (and E if appropriate) on page 2? ☐					
Have you recorded in section C the number of riffles, pools and point bars (even if 0) on page 1? ☐					
Have you given an accurate (alphanumeric) grid reference for spot-checks 1, 6 and end of site (page 1)? ☐					
Have you stated whether spot-check 1 is at the upstream or downstream end of the site (top of page 2)? ☐					
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? ☐					