SITE GEOMORPHOLOGY
BASELINE SURVEY

1. BACKGROUND MAP BASED INFORMATION

Recorder		**River**			
Site no.		**Altitude (m)**		**Lat.**	
Date				**Long.**	

Channel gradient ***Delete one***
(measured from topographic map scale: 1: 50 000/1:10 000)
River Zone:

1. PHOTOGRAPHIC RECORD

	Film No	**Shot No**
Overhead		
Upstream		
Downstream		

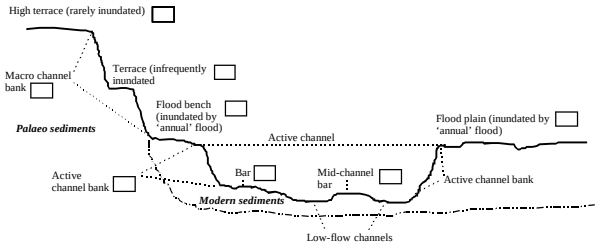
3. CONDITION OF LOCAL CATCHMENT

Rate: none -0; limited - 1; moderate - 3; extensive - 4; extreme - 5

IMPACT OF:	Rating	Comments
Upstream impoundments		
Interbasin transfer		
Farm dams		
Erosion/gullying		
Land use change		
Water abstraction		
Other		

4a. CHANNEL PLAN:

4b) Template for channel cross-section morphology: tick box if present



4c Channel dimensions

	bank height (m) RHB	*bank height (m) LHB*	*width over hydrau*
macro-channel			
active channel			

4d. CHANNEL CROSS SECTIONS:
(indicate shape of channel and banks, position and type of vegetatio n, bank composition, benches, bars, flood levels pre

Left hand bank

Hydraulic control (specify_____)

Pool

5. RIPARIAN AND IN-CHANNEL VEGETATION

Rate: none - 0; sparse - 1; patchy - 2; continuous - 3; dense (impenetrable) - 4

DENSITY	Reeds	Grasses	Shrubs	Trees
macro-channel banks				
top of active channel bank (flood zone)				
active channel banks				
bank toe				
lateral/point bars				
mid-channel bars				

Alien Vegetation

Rate: none - 0; sparse - 1; patchy - 2; continuous - 3; dense (impenetrable) - 4

	impact
IS THERE INVASIVE ALIEN VEGETATION PRESENT ?	
COMMENTS (note species ans specific impacts)	

6a. SITE GEOMORPHOLOGY

*Indicate: dominant or widespread - **T**; localised - x*

VALLEY FORM (reach)		***MORPHOLOGICAL UNITS (site)***		***BAR TYPES (site)***	
confined *by valley sides - no flood plain*		*waterfall*		*lateral (formed along side of channel)*	
		rock steps			
moderately confined - a) narrow flood plain, often on one side of channel only		*bedrock pavement*		*point bar (on meander*	
		rapid *bedrock*		*tributary junction bar (formed at a tributary)*	
b) narrow terrace, entrenched channel		*rapid* *boulder*		*lee bar (formed behind an obstruction)*	
unconfined - *a) flood plain*		*bedrock or plunge pool*		*mid-channel bar (no or sparse vegetation)*	
b) river terraces, entrenched channel		*step (cobble or boulder)*		*braid bar (unstable, no vegetation)*	
CHANNEL PATTERN (reach)		*plain-bed*		island (stable, often vegetated)	
A. *single thread*	A.	A. *riffle*	A.	A.	
OR anabranching /divided		*sandwaves (mobile waves of sand)*		bedrock core bar (sand or gravel over bedrock, vegetated)	
B straight/ low sinuosity		*shallow pool*		***CHANNEL TYPE (site)***	
OR stable sinuous		*deep pool - (alluvial)*		*bedrock*	
OR meandering - mod. sinuosity		*run*		*fixed boulder bed*	
OR tortuous - v. high sinuosity		*backwater*		*alluvial*	
OR wandering				*mixed*	
OR braided				***REACH TYPE (reach)***	

PERIMETER MATERIAL (site)	***Bank***		***Bed***		*bedrock fall*	
	LHB	***RHB***	***riffle etc***	***pool***	*cascade*	
bedrock					*planar bedrock*	
boulder					*bedrock rib*	
cobble					*pool-rapid*	
mixed (cobble with gravel/sand matrix)					*step-pool*	
					plain-bed	
gravel					*pool-riffle*	
sand					*pool*	
silt/clay					*regime*	

6b. BED MATERIAL SIZE DISTRIBUTION

Tally occurences for a sample of 100 randomly selected clasts for each morphological unit

N.B. class limits for clast sizes adapted from Gordon et al. (1992) after Brakensiek et al. (1979)

	Hydraulic control		***Pool***		***Bar 1***		***Bar 2***	
MORPHOLOGICAL UNIT								
Clast size (mm)	***Tally***	***F***	***Tally***	***F***	***Tally***	***F***	***Tally***	***F***
v. fine sand/silt <0.125								
fine / medium sand 0.125-0.0.5								
coarse/v. coarse sand 0.5 - 2.0								
v.fine / fine gravel 2 - 8								
medium gravel 8 - 16								
coarse/ v.coarse gravel 16 - 64								
small cobble 64 - 128								
large cobble 128 - 250								
small boulder 250 - 500								
medium boulder 500 - 1000								
large / very large boulder 1000 - 4000								
bedrock								
Bed packing (T)								
loosely packed								
moderately packed								
tightly packed								