

MRHI Field Data Sheet

Observers	Date
Time	Hrs
Weather Code	

SITE DESCRIPTION	Location Name (river and site location)
.....	
Location Code	
Mapsheet Name	Mapsheet no and scale
AMG Zone	Easting
	Northing
Latitude	Longitude
	Altitude
	m
Nearest Named Place	

KEYS REQUIRED NOTIFY LANDOWNER LANDMARKS FOR FINDING SITE	
Location Sketch (Show site location, stream boundaries, veg'n, physical features etc.)	

Chemical and Physical Description

Depth Gauge	m	Conductivity	μS/cm
Dissolved Oxygen	mg/L	.....	% sat'n
			METER
Water Temperature	°C	pH	
Secchi Depth	cm	Shade Cover	%
Other meters used			

Stream Transects

1	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	Width
	Depth (cm)														
	15m	16m	17m	18m	19m	20m	21m	22m	23m	24m	25m	26m	27m	28m	
	Depth (cm)														
2	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	
	Depth (cm)														
	15m	16m	17m	18m	19m	20m	21m	22m	23m	24m	25m	26m	27m	28m	
	Depth (cm)														
3	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	
	Depth (cm)														
	15m	16m	17m	18m	19m	20m	21m	22m	23m	24m	25m	26m	27m	28m	
	Depth (cm)														

Habitat Descriptions

Riffle							
Current Speed (m/s) Max	.....		Min	.....		Area of Site	%
Mean Depth (cm)	1<25	2<50	3<100	4<200	5>200	animals added or released ?	
Substrate Description							
Bedrock	..... %		Gravel (4-16mm) %			
Boulder (>256mm)	..... %		Sand (1-4mm) %			
Cobble (64-256mm)	..... %		Silt (<1mm) %			
Pebble (16-64mm)	..... %		Clay %			
Algal Cover	..... %		Detritus Cover %			

Edge							
Current Speed (m/s) Max	.....		Min	.....		Area of Site	%
Mean Depth (cm)	1<25	2<50	3<100	4<200	5>200	animals added or released ?	
Substrate Description							
Bedrock	..... %		Gravel (4-16mm) %			
Boulder (>256mm)	..... %		Sand (1-4mm) %			
Cobble (64-256mm)	..... %		Silt (<1mm) %			
Pebble (16-64mm)	..... %		Clay %			
Algal Cover	..... %		Detritus Cover %			
Degree of bank overhang:	Nil	Slight	Moderate	Extensive			
Trailing bank vegetation:	Nil	Slight	Moderate	Extensive			

Biological Description

Dominant Terrestrial Vegetation

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Macrophytes

SUBMERGED/ FLOATING

Azolla

Chara (Stonewort).....

Myriophyllum (Water Milfoil)

Nitella (Stonewort)

Potamogeton (Pondweed)

Ruppia (Sea Tassel)

Triglochin (Water Ribbon)

Vallisneria (Ribbonweed)

Zanichellia

Other

.....

.....

EMERGENT (ctd.)

Carex (Tussock Sedge)

Crassula (Crassula)

Cyperus (Sedge).....

Eleocharis (Spikerush).....

Rorippa (Watercress)

Polygonum (Smartweed)

Ranunculus (Buttercup)

Isolepis (Clubrush).....

Mimulus

Bolboschoenus (Clubrush).....

Schoenoplectus (Clubrush).....

Cotula (Waterbutton).....

Other

EMERGENT

Typha (Cumbungi).....

Phragmites (Common Reed).....

Juncus (Rush).....

Callitriche (Starwort).....

Epiphyte Cover Nil Slight Moderate Extensive

 % Native vegetation % Exotic vegetation (total 100%)

Algae (Attached/ Floating) *Cladophora* *Spirogyra* *Enteromorpha*

sample collected? algae macrophyte none

Percent of 100 m reach covered by:

Periphyton	1 <10%	2 10-35%	3 35-65%	4 65-90%	5 >90%
Moss	1 <10%	2 10-35%	3 35-65%	4 65-90%	5 >90%
Filamentous algae	1 <10%	2 10-35%	3 35-65%	4 65-90%	5 >90%
Macrophytes	1 <10%	2 10-35%	3 35-65%	4 65-90%	5 >90%

Fauna Observed

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General Stream Description and Use

WATER ODOURS:	normal	sewage	petroleum	chemical	none	
WATER OILS:	slick	sheen	globbs	flecks	none	
TURBIDITY:	clear	slight	turbid	opaque		
PLUME (amount of fine sediment generated when sediment is disturbe	little	some	lots			
SEDIMENT ODOURS:	normal	sewage	petroleum	chemical	anaerobic	none
FLOW LEVEL:	(relative to normal inundation level, shown by terrestrial grasses, eroded area or boundary in bank sediment)					
	No flow	Low	Normal	High		
Are the undersides of stones which are not deeply embedded black?	yes	no				
SEDIMENT DEPOSITS:	none	fine organic	manure	sand	relict shells	
EXISTENCE OF EROSION:	none	some	moderate	heavy	causes:	
NPS POLLUTION:	no evidenc	potential	.....	obvious	type
RESTRICTIONS TO FLOW	present	upstream / downstream	absent			
	types	.....			
LANDUSE:	Native forest	Forestry	Native pasture	Grazing	Cropped	
	Residential	Commercial	Industrial	Recreational	other	
BARS: (bed surface protruding from normal water level & forming a bar)				%	

Samples Collected

1.25L water	.....	No. Net Samples	.....
50mL Filtered sample	.....	Description of Net Samples	
Diatom	.....	1	.....
Protozoa [>5000 uS]	.....	2	.....
		3	.....
Photographs	.....	
Comments	.....	
		
Any Other Observations			

HABITAT ASSESSMENT FIELD DATA SHEET

Date:..... River:.....

Location Code:.....

Name of recorder:.....

CHANNEL DESCRIPTION

Amount of stable habitat >50% 30-50% 10-30% <10%

Description of main habitat (sediment category and/or macrophyte type).....

Embeddedness (%gravel, cobble, boulders surrounded by fine sediment) N/A 0-25 25-50 50-75 >75

Velocity/depth categories present deep (>30cm) edge shallow edge deep (>10cm) riffle
shallow riffle

Channel width/depth ratio (high flow bank width, top of bank to bottom of water).....

Bottom scouring ABSENT PRESENT (amount).....

Bank slope/steepness (range of °).....

Bed Condition (may use more than one category)

amount of erosion or deposition	location in bed	particle size	% of reach	source/cause
Nil (no erosion or deposition)				
Slight erosion				
Slight deposition				
Moderate erosion				
Moderate deposition				
Extreme erosion				
Extreme deposition				

Pools in reach..... Riffles in reach..... Adequacy of habitat:.....

BANK DESCRIPTION**Bank stability**

stable (good veg cover, no significant damage to bank structure, no exposed roots)

limited erosion (good veg cover, minor isolated erosion, no continuous damage to bank, some exposed roots)

moderate erosion (discontinuous veg, obvious damage to bank structure, moderate exposure of roots)

extensive instability (little effective veg, recent bank movement, large amounts of exposed roots)

extreme instability (evidence of rapid unchecked erosion, little effective veg, abundant exposure of roots)

Bank vegetative cover >80% 50-79% 25-49% <25%

BUFFER DESCRIPTION (exclude grasses)

Width of buffer <5m 5-10m 10-30m 30-40m >40m

Longitudinal continuity of buffer

Percent of bank length with >5m width of vegetation cover: left bank.....right bank.....

Any gaps >10m long?.....

Buffer type and cover	>5m tall trees	continuous(>80%)	patchy(20-80%)	sparse(<20%)	none
	<5m tall shrubs	continuous	patchy	sparse	none
	sedges, samphire	continuous	patchy	sparse	none

Evidence of regeneration of indigenous species?

Field Data Sheet - Supplement

Catchment Variables

River	Location Code
Stream Order	(1:50,000 scale map)
Distance From Source (DFS)	km
Catchment Area Upstream	km ²
Slope	m/last km (1:50,000 scale map)

Chemical Description

Alkalinity	(mg/L)
Carbonates	CO ₃ ⁻² mg/L