WA AUSRIVAS SITE INFORMATION SHEET

Government of Western Australia
Department of Water

SITE INFORMATION

SITE NAME _____ LOCATION CODE _____

RIVER SYSTEM _____ RIVER NAME _____

ALTITUDE _____ (m) SLOPE _____ (m/km) DFS _____(km) STREAM ORDER _____

FLOW PATTERN CATEGORY _____ DISCHARGE CATEGORY _____ TEST/REFERENCE (circle)

NEAREST RAINFALL STATION: _____ AV. ANN. RAINFALL _____ (mm)

GPS & MAP DETAILS

GPS DATUM (as set on the GPS at the time you recorded your position) _____

LATITUDE _____ LONGITUDE _____

ZONE ____ EASTING _____ NORTHING _____

MAP NAME _____ SCALE _____ NUMBER _____ EDITION _____

JOINING MAP NAMES/NUMBERS _____
_____

ACCESS DETAILS

DIRECTIONS _____
_____
_____
_____

PROPERTY OWNER _____ PHONE NUMBER _____

ADDRESS _____

Notify before each visit	Y [ ]	N [ ]
Permission required	Y [ ]	N [ ]
Key required	Y [ ]	N [ ]

Key number/available from: _____

SKETCH OF ACCESS ROUTE (include: river; flow direction; site location; roads; crossings; access details (location of turnoffs, distances and landmarks leading to site); and a northing.

SKETCH OF REACH (include location of riffle, channel, pool, and macrophyte habitats within the reach; flow direction; access point; channel sampling location); and a northing.

WA AUSRIVAS FIELD SAMPLING CHECKLIST

Government of Western Australia
Department of Water

RIVER _____ DATE _____ LOCATION CODE _____

COMPLETION CHECKLIST

Check off each item before <u>leaving</u> sampling site

[ ] Sketch of 100m reach to be sampled

[ ] Photographs of sampling site; photo numbers _____

[ ] Macroinvertebrate samples collected

[ ] Macroinvertebrate samples preserved and labelled

[ ] Macroinvertebrate residue sample transferred to container, preserved and labelled

[ ] Water quality measurements taken

[ ] Water quality samples for laboratory analysis collected, labelled and stored appropriately

[ ] COC for water quality samples filled out correctly and sample number recorded on Field Sampling Sheet

[ ] Macroinvertebrate Sampling Field Sheet filled in completely and checked (no blank spaces)

[ ] Field Sampling Sheet filled in completely and checked (no blank spaces)

[ ] GPS latitude and longitude recorded

[ ] Other sampling field sheets completed Details: _____

INSTRUMENT CALIBRATION Instrument name: _____

Air pressure _____ hPa _____ mmHg

Pre – field calibration	**Salinity**	**pH 7**	**pH 10**	**DO%**	**Conductivity**
Reading					
Calibrated to					

Post – field calibration	**Salinity**	**pH 7**	**pH 10**	**DO%**	**Conductivity**
Reading					
Calibrated to					

Please circle:

Conductivity units	uncomp	Comp (25°C)	ppt	
Conductivity setting	fresh	salt	stdMthd	None
Salinity setting	2311	stdMthd		

RIVER _____ DATE _____ LOCATION CODE _____

EQUIPMENT CHECKLIST

Item	Quantity	Check
WA sampling and processing manual	1	
Kicknet 250µm mesh	1	
Sieve 16mm	1	
Sieve 2mm	1	
Sieve 500µm	1	
Sieve 250µm	1	
Bucket	2	
Medium white tray	4	
Ethanol 100%	As required	
Bug containers for QA/QC residue 500ml	As required	
Bug containers for live pick	Minimum two per site	
250mL water sample bottle	1 per site	
125mL water sample bottle	1 per site	
Box sub-sampler and collection flask	1 (if using)	
Filter tower	1 (if filtering in field)	
Filter papers	As required	
Hand vacuum pump	1 (if filtering in field)	
Flow meter	1	
Float (if flow meter fails)	1	
Waders	2	
Multiprobe (Hydrolab or other – calibrated)	1	
GPS	1	
Camera	1	
Mobile phone	1	
Site information sheets	One per site	
Field sampling sheets	One per site	
Macroinvertebrate sampling field sheet	One per site	
Sampling checklist	1 per site	
Clipboard	1	
Maps	As required to cover area	
Tweezers	3	
Pipettes	3	
Vial labels	Minimum two per site	
Pencils	3	
Pencil sharpener	1	
Eraser	1	
Mosquito repellent	1	
Chairs for live pick	2	
Table for live pick	1	
Water	For washing hands etc	
Sunscreen	1	
Chain of custody form	As required	
Field observation form	As required	
Esky	1	
Ice bricks or ice	To cover bottom of esky	
Keys	As required	
Tape measurer	1	
First aid kit	1	
Sample numbers	1	
Gloves for water quality sampling	As required	

WA AUSRIVAS FIELD SAMPLING SHEET

Government of Western Australia
Department of Water

SAMPLE INFORMATION

DATE _____ TIME _____ LOCATION CODE _____

RIVER NAME _____ SITE NAME _____

RECORDERS NAME _____ SAMPLE COLLECTED BY _____

HABITAT _____ % OF 100m REACH _____

SAMPLE NUMBER _____ COC NUMBER: _____

WATER QUALITY AND HABITAT IN REACH

Water samples taken[1]

[ ] 250mL unfiltered sample for alkalinity, turbidity, TN and TP

[ ] 125mL filtered sample for colour, SRP, NO_x and NH_3

	Instrument		
Water temperature (°C)	_____	_____	Habitat area in 100m Reach (%)
Conductivity (µS/cm)	_____	_____	Channel _____
pH	_____	_____	Macrophytes _____
Dissolved oxygen (mg/L)	_____	_____	Riffle _____
Dissolved oxygen (%)	_____	_____	Pool _____
Turbidity (NTU)	_____	_____	Total (must add to 100%) _____
Wind direction	_____	_____	Stream width (mean width of water taken from three measurements):
Wind speed	_____	_____	_____ m _____ m _____ m _____ average

Comments _____

_____

[1] Sample taken from sampling site prior to macroinvertebrate sample being collected

WEATHER

Rain in past week Y [ ] N [ ] Comments _____

Today: Rain _____ Cloud cover (%) _____ Comments _____

_____

RIVER _____ DATE _____ LOCATION CODE _____

OBSERVATIONS (Circle appropriate category)

WATER ODOURS	Normal	Anaerobic	Sewage	Petroleum	Chemical	None
WATER OILS	Slick	Sheen	Globs	Flecks	None	
TURBIDITY	Clear	Slight	Turbid	Opaque		
PLUME (amount of fine sediment generated when kick sampling)	Little	Some	Lots			

COLOUR Yes No

SEDIMENT OILS Absent Light Moderate Profuse

SEDIMENT ODOURS Normal Sewage Petroleum Chemical Anaerobic None Other _____

WATER LEVEL (Relative to 'water mark' ie normal inundation level shown by limit of terrestrial grasses, or by eroded area, or boundary in bank sediment types).

No Flow (dry/isolated)	Low (<water mark)	Moderate (=)	High (>water mark)	Flood

SEDIMENT DEPOSITS None Sand Silt Other _____

Algae on substrate	None 0%	Little 1 – 10%	Some 10 – 50%	Moderate 50 – 75%	Extensive > 75%
Algae in water column	None	Little	Some	Moderate	Extensive

Are the undersides of stones which are not deeply embedded black? Yes No N/A

LOCAL CATCHMENT EROSION None Some Moderate Heavy

LOCAL PS POLLUTION No evidence Potential _____ Obvious _____

LOCAL NPS POLLUTION No evidence Potential _____ Obvious _____

DAMS/BARRIERS Present – upstream/downstream details _____ Absent

RIVER BRAIDING Yes – Number of braids _____ No

LANDUSE (Circle appropriate, may circle more than one)

Left Bank[2]	AG	AR	CO	FO	IN	MI	PA	RV	TO	UR	VC	WC
Right Bank[2]	AG	AR	CO	FO	IN	MI	PA	RV	TO	UR	VC	WC

[2] Facing downstream.

Landuse			
(AG) Agriculture	(FO) State Forest	(PA) Pastoralism	(UR) Urban
(AR) Aboriginal Reserve	(IN) Industrial	(RV) Remnant Vegetation	(VC) VCL
(CO) Conservation	(MI) Mining	(TO) Tourism	(WC) Water Catchment

RIPARIAN ZONE (To a maximum of 100m width)

Width of riparian zone Left Bank _____ m Right Bank _____ m

Bare ground*	None	Little	Some	Moderate	Extensive
Grass*	None	Little	Some	Moderate	Extensive
Shrubs*	None	Little	Some	Moderate	Extensive
Trees < 10m high*	None	Little	Some	Moderate	Extensive
Trees >10m high*	None	Little	Some	Moderate	Extensive
Presence of exotic riparian species	None	Little	Some	Moderate	Extensive

None = 0% Little = 1 – 10% Some = 10 – 50% Moderate = 50 – 75% Extensive > 75%
* Can add to greater than 100%

RIVER _____ DATE _____ LOCATION CODE _____

HABITAT ASSESSMENT

HABITAT PARAMETER	OPTIMAL CONDITION	SUB-OPTIMAL CONDITION	MARGINAL CONDITION	POOR CONDITION
Degree of naturalness	Pristine	Minimally disturbed	Moderately disturbed	Heavily disturbed
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
Catchment Condition	Pristine	Minimally disturbed	Moderately disturbed	Heavily disturbed
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
Landuse at site	Near Pristine	Minimally disturbed	Moderately disturbed	Heavily Disturbed
	Left bank 10 9	8 7 6	5 4 3	2 1 0
	Right bank 10 9	8 7 6	5 4 3	2 1 0
Physical substrate characterisation	Optimal mix of substrate types: Many interstitial spaces	Sub-optimal mix of substrate types	Minimal substrate diversity	Lack of substrate types and spaces: Bedrock only
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
Biological substrate characterisation	Optimal: decaying twigs, leaf litter, epiphytes etc	Sub-optimal: some leaf litter, epiphytes etc.	Minimal leaf litter, epiphytes etc.	Complete absence of detritus and epiphytes
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
Vegetative protection	Pristine	Minimally disturbed	Moderately disturbed	Heavily disturbed
	Left bank 10 9	8 7 6	5 4 3	2 1 0
	Right bank 10 9	8 7 6	5 4 3	2 1 0
Width of riparian vegetation	Pristine	Minimally disturbed	Moderately disturbed	Heavily disturbed
	Left bank 10 9	8 7 6	5 4 3	2 1 0
	Right bank 10 9	8 7 6	5 4 3	2 1 0
Bank stability	Pristine	Minimally disturbed	Moderately disturbed	Heavily disturbed
	Left bank 10 9	8 7 6	5 4 3	2 1 0
	Right bank 10 9	8 7 6	5 4 3	2 1 0
Sediment deposition	Optimal condition	Sub-optimal condition	Marginal condition	Poor condition
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
Impoundments, abstraction or channelisation	Optimal condition	Sub-optimal condition	Marginal condition	Poor condition
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0

TOTAL _____

WA AUSRIVAS MACROINVERTEBRATE SAMPLING FIELD SHEET

Government of Western Australia
Department of Water

SAMPLE INFORMATION

DATE _____ TIME _____ LOCATION CODE _____

RIVER NAME _____ SITE NAME _____

RECORDERS NAME _____ SAMPLE COLLECTED BY _____

LIVE PICK BY _____ AND _____

HABITAT _____ % OF 100m REACH _____

SAMPLE NUMBER: _____ COC NUMBER: _____

Sampling Conditions good [ ] average [ ] poor [ ]

Picking Conditions good [ ] average [ ] poor [ ]

HABITAT ASSESSMENT (Description of 10m sample area)

Mineral substrate	**%**	**Breakdown of habitat surface area**	**%**	**Density** **(1 = sparse; 5 = dense)**
Bedrock		Mineral substrate		
Boulders (> 256mm)		Emergent macrophyte		1 2 3 4 5
Cobble (64 to 256 mm)		Submerged macrophyte		1 2 3 4 5
Pebble (16 to 64 mm)		Floating macrophyte		1 2 3 4 5
Gravel (4 to 16 mm)		Algal cover		1 2 3 4 5
Sand (1 to 4 mm)		Detritus		1 2 3 4 5
Silt (<1 mm)		Riparian veg draped in water		
Clay		Other (i.e. woody debris)		
Total		Total (may be > 100%)		

DEPTH AND VELOCITY

DEPTH (Circle appropriate category) 1 (< 25cm) 2 (< 50cm) 3 (<100cm) 4 (< 200cm) 5 (> 200cm)

VELOCITY

Meter used _____ Max velocity = _____

Min velocity = _____

Examples – mineral substrate

Bedrock	
Boulder (> 256 mm)	> soccer ball
Cobble (64 – 256 mm)	cricket ball to soccer ball
Pebble (16 – 64 mm)	5c piece to cricket ball
Gravel (4 – 16 mm)	raw sugar to 5c piece
Sand (1 – 4 mm)	< raw sugar
Silt or clay (< 1 mm)	

RIVER _____ DATE _____ LOCATION CODE _____

LIVE PICK TALLY

Taxon	Log abundance	Live pick tally	Taxon	Log abundance	Live pick tally
Nematoda			**Odonata**		
Platyhelminthes			Anisoptera		
Oligochaeta			Zygoptera		
Hirudinea					
Bivalvia					
Gastropoda			**Trichoptera**		
Acarina			Leptoceridae		
			Ecnomidae		
Diptera					
Chironomidae					
Ceratopogonidae			**Amphipoda**		
Culicidae			Ceinidae		
Simuliidae			Perthiidae		
Stratiomyidae					
Tabanidae			**Isopoda**		
Plecoptera			**Decapoda**		
Gripopterygidae			Atyidae		
			Palaemonidae		
Ephemeroptera			Parastacidae		
Baetidae					
Caenidae					
Leptophlebiidae			**Coleoptera**		
			Dytiscidae		
			Hydrophylidae		
Hemiptera					
Corixidae					
Notonectidae					
Gerridae					

BOX SUB-SAMPLER TALLY

Number of cells picked: _____

Total number of cells in box: _____

Total number of macroinvertebrates picked: _____

AUSRIVAS FIELD LABEL
Date ___/___/______
Location Code:______________
Habitat:____________________
Collector: __________________
Picker: ____________________
Sample #: __________________
COC #: ____________________

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Sample #: __________________
COC #: ____________________

Site
River
Date
Name
Habitat

Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
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Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
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CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.
Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
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Taxon	Taxon	Taxon	Taxon	Taxon	Taxon	Taxon
Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.	Sample No.
CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.	CoC No.

MACROINVERTEBRATE IDENTIFICATION SHEET			
River		Location code	
Site name		Date collected	
Identifier’s name		Date identified	
Sample number		Habitat	
COC number			

QA/QC LIVE PICK				
% Organisms remaining	Pass/fail (Pass ≤ 5%)	Name	Date	Error/action codes

QA/QC IDENTIFICATION					
% Taxa error	% Incorrect ID	Pass/fail (Pass ≤ 5%)	Name	Date	Error/action codes

CLASS/ ORDER	**FAMILY**	**SUB-FAMILY**	**COUNT**	**ABUN.**	**QA/ QC**

TOTAL BUGS			
NUMBER OF TAXA			
NUMBER OF VIALS			

Sheet ___ of ___