WA AUSRIVAS SITE INFORMATION SHEET



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.
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WA AUSRIVAS FIELD SAMPLING CHECKLIST

Conductivity units

Salinity setting

Conductivity setting

uncomp

fresh

2311

Comp (25°C)

salt

stdMthd

ppt

stdMthd

None



RIVER		DAT	E	LO	OCATION 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 sam	ples colle	ected							
[]	Macroinvertebrate sam	ples prese	erved and	labelled						
[]	Macroinvertebrate resid	due sampl	le transfer	red to contain	er, preserved and labelled	I				
[]	Water quality measure	ments tak	en							
[]	Water quality samples	for labora	itory analy	ysis collected,	labelled and stored appro	priately				
[]	COC for water quality Sampling Sheet	samples f	illed out c	correctly and s	ample number recorded of	on Field				
[]	Macroinvertebrate Sam	pling Fie	ld Sheet fi	illed in compl	etely and checked (no bla	nk spaces)				
[]	Field Sampling Sheet f	illed in co	mpletely	and checked (no blank spaces)					
[]	GPS latitude and longit	tude recor	ded							
[]	Other sampling field sh	neets comp	pleted	Details:						
INICEDIA										
	IENT CALIBRATIO	<u>)N</u> 11	ıstrumer							
Air pressure	hPa			mmHg	; 					
Pre – field calibration	Salinity	pH 7	pH 10	DO%	Conductivity					
Reading Calibrated to	0									
Post – field calibration	Salinity	pH 7	pH 10	DO%	Conductivity					
Reading Calibrated t	0									
Please circle:	Please circle:									

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



SAMPLE INFORMATION									
DATE T	DATE TIME LOCATION CODE								
RIVER NAME	RIVER NAME SITE NAME								
RECORDERS NAME	SAMP	LE COLLECTED BY							
HABITAT	% C	DF 100m REACH							
SAMPLE NUMBER		COC NUMBER:							
	WATER QUALITY AND	HABITAT IN REACH							
	I sample for alkalinity, turbidity, T I ample for colour, SRP , NO_x and N I I								
Water temperature (°C)		Habitat area in 100m Reach (%)							
Conductivity (µS/cm)									
рН		Macrophytes							
Dissolved oxygen (mg/L)		D. CCI.							
Dissolved oxygen (%)		Pool							
Turbidity (NTU)		Total (must add to 100%)							
Wind direction Wind speed		Stream width (mean width of water taken from three measurements):							
wind speed		m m average Comments							
¹ Sample taken from sampling site prior to macroinvertebrate sample being collected									
<u>WEATHER</u>									
Rain in past week Y [] N [] Comments									
Today: Rain Cloud cover (%) Comments									

RIVER	DATE	LOCATION CODE

OBSERVATIONS (Circle appropriate category)											
WATER ODOURS	URS Normal Anaerobic		Sewa	ge	Petroleum		Chen	nical	None		
WATER OILS	Slick		Sheen		Globs	S	Fleck	XS.	None		
TURBIDITY	Clear		Slight		Turbi	id	Opac	lue			
PLUME (amount of fine sediment generate	Little ed when kick	x sampling)	Some		Lots						
COLOUR		Yes		No							
SEDIMENT OILS		Absen	t	Light		Mode	erate		Profu	ise	
SEDIMENT ODOUR	S	Norma Anaero		Sewag None	e	Petrol Other	leum 	Chem	ical		
WATER LEVEL (Relative to 'water mark' ie normal inundation level shown No Flow (dry/isolated) Low (<water mark)<="" td=""><td>imit of terres Mode (=)</td><td></td><td>es, or by erod</td><td>led area, or High (>water</td><td></td><td>bank sediment types). Flood</td></water>						imit of terres Mode (=)		es, or by erod	led area, or High (>water		bank sediment types). Flood
SEDIMENT DEPOSI	TS	None		Sand		Silt		Other			
Algae on substrate		None				Some 10 – 509					Extensive > 75%
Algae in water column	ı	None		Little		Some Modera				Extensive	
Are the undersides of	stones w	hich ar	e not de	eply eml	bedded	l black?		Yes		No	N/A
LOCAL CATCHMEN	T EROS	SION		None		Some		Mode	rate		Heavy
LOCAL PS POLLUT	ION	No evi	idence	Potent	ial			Obvio	ous		
LOCAL NPS POLLU	TION	No evi	idence	Potent	ial			_ Obvio	ous		
DAMS/BARRIERS	Present	t – upst	ream/do	wnstrea	m deta	ils				_ Absei	nt
RIVER BRAIDING	Yes – I	Number	of brai	ds	_	No					
LANDUSE (Circle ap	propriate	e, may o	circle m	ore 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			State F			(PA) Pa				(UR)	
(AR) Aboriginal Re		_ ` /	Industri					Vegetati	on	(VC)	
(CO) Conservation		(MI)	Mining			(TO) To	ourism			(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 * Can add to greater than 100%	= 10 - 50%	Moderate = 50	- 75%	Extensive > 75	5%			

RIVER	DATE	LOCATION CODE
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HABITAT ASSESSMENT

TT A DATE A TE	O DOWN A L	CLID OPENALL	NEAD CENTAL	DO OD
HABITAT	OPTIMAL	SUB-OPTIMAL	MARGINAL	POOR
PARAMETER	CONDITION	CONDITION	CONDITION	CONDITION
D C . 1	I n · · ·) (; · 1)	36.11	TT '1 1' . 1 1
Degree of naturalness	Pristine	Minimally	Moderately	Heavily disturbed
	20 10 10 17 16	disturbed	disturbed	5 4 2 2 1 0
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
G . 1 G . 1'.'	I n : .:) (; · 1)	36.11	TT '1 1' . 1 1
Catchment Condition	Pristine	Minimally disturbed	Moderately	Heavily disturbed
	20 10 10 17 16		disturbed	5 4 2 2 1 0
	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	Minimalla.	Madaustala.	Handle Disturbed
Landuse at site	Near Pristine	Minimally disturbed	Moderately disturbed	Heavily Disturbed
	Left bank 10 9			2 1 0
		8 7 6 8 7 6	5 4 3 5 4 3	2 1 0 2 1 0
	Right bank 10 9	8 7 6	5 4 5	2 1 0
Diam'r 1 ani ataut	Outimal min of	C-1 C	Marine	T - 1 C 1- 4 - 4 -
Physical substrate	Optimal mix of	Sub-optimal mix of	Minimal substrate	Lack of substrate
characterisation	substrate types:	substrate types	diversity	types and spaces:
	Many interstitial			Bedrock only
	spaces 20 19 18 17 16	15 14 13 12 11	10 0 9 7 6	5 4 3 2 1 0
	20 19 18 17 10	15 14 15 12 11	10 9 8 7 6	3 4 3 2 1 0
Dialagiaal substants	Ontineal, decesions	Cult antimal access	Minimal leaf litter,	Commission of the commission o
Biological substrate	Optimal: decaying	Sub-optimal: some		Complete absence
characterisation	twigs, leaf litter,	leaf litter, epiphytes	epiphytes etc.	of detritus and
	epiphytes etc	etc. 15 14 13 12 11	10.0.0.7.6	epiphytes 5 4 3 2 1 0
	20 19 18 17 16	15 14 15 12 11	10 9 8 7 6	3 4 3 2 1 0
Vegetative protection	Pristine	Minimally	Moderately	Heavily disturbed
vegetative protection	Prisume	disturbed	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
	Rigili Dalik 10 9	8 / 0	3 4 3	2 1 0
Width of riparian	Pristine	Minimally	Moderately	Heavily disturbed
vegetation	1 HStille	disturbed	disturbed	Ticavity disturbed
vegetation	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
	Kigin balik 10 9	0 / 0	J + J	2 1 U
Bank stability	Pristine	Minimally	Moderately	Heavily disturbed
Dank stability	1 HSUIIC	disturbed	disturbed	incavity distuibed
	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
	Right bank 10 9	0 / 0	J 4 3	2 1 U
Sediment deposition	Optimal condition	Sub-optimal	Marginal condition	Poor condition
Scannent achostion	Opumai condition	condition	iviai giliai Colluluoli	1 001 COHUIUOH
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
	20 17 10 17 10	13 14 13 14 11	10 9 0 7 0	J + J Z I U
Impoundments,	Optimal condition	Sub-optimal	Marginal condition	Poor condition
abstraction or	Optimal condition	condition	iviai giliai Colluluoli	1 ooi condition
channelisation		Continuin		
Chamichauton	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0
	20 17 10 17 10	10 17 10 14 11	10 / 0 / 0	12 7 2 2 1 0

TOTAL		

WA AUSRIVAS MACROINVERTEBRATE SAMPLING FIELD SHEET



SAMPLE INFORMATION					
DATE TIME _		LOCATION CODE			
RIVER NAME	SITE NAME				
RECORDERS NAME	SAMPLE COLLECTED BY				
LIVE PICK BY	AND)			
НАВІТАТ	%	OF 100m REACH			
SAMPLE NUMBER:		COC NUMBER:			
Sampling Conditions good [] avera	ge [] poor []			
Picking Conditions good [] avera	ge [] poor []			
<u>HABIT</u>	AT ASSESS	MENT (Description of 10m sam	ole area)		
Mineral substrate	%	Breakdown of habitat	%	Density (1 = sparse; 5 = dense)	
Bedrock		surface area Mineral substrate		(1 – sparse, 5 – dense)	
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%)			
			1		
	DE	PTH AND VELOCITY			
DEPTH (Circle appropriate category) 1 (< 25	cm) 2	(< 50cm) 3 (<100cm)	4 (< 200	cm) 5 (> 200cm)	
VELOCITY					
Meter used Max vel	ocity =				
Min velocity =					
Examples – mineral substrate					
Bedrock Boulder (> 256 mm) Cobble (64 – 256 mm) Pebble (16 – 64 mm) Gravel (4 – 16 mm) Sand (1 – 4 mm) Silt or clay (< 1 mm)	> soccer ball cricket ball t 5c piece to c raw sugar to < raw sugar	o soccer ball ricket ball			

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			m • • •		
Gastropoda			Trichoptera		
Acarina			Leptoceridae		
			Ecnomidae		
Diptera					
Chironomidae					
Ceratopogonidae			Amphipoda		
Culicidae			Ceinidae		
Simuliidae			Perthiidae		
Stratiomyidae					
Tabanidae			Isopoda		
Plecoptera			Decapoda		
Gripopterygidae			Atyidae		
1 1 10			Palaemonidae		
Ephemeroptera			Parastacidae		
Baetidae					
Caenidae					
Leptophlebiidae			Coleoptera		
- 1 1			Dytiscidae		
			Hydrophylidae		
Hemiptera			J		
Corixidae					
Notonectidae					
Gerridae					
Cilliano					

BOX SUB-SAMPLER TALLY	
Number of cells picked:	
Total number of cells in box:	
Total number of macroinvertebrates picked:	

AUSRIVAS FIELD LABEL	AUSRIVAS FIELD LABEL	AUSRIVAS FIELD LABEL	AUSRIVAS FIELD LABEL
Date/	Date//	Date//	Date//
Location Code:	Location Code:	Location Code:	Location Code:
Habitat:	Habitat:	Habitat:	Habitat:
Collector:	Collector:	Collector:	Collector:
Picker:	Picker:	Picker:	Picker:
Sample #:	Sample #:	Sample #:	Sample #:
COC #:	COC #:	COC #:	COC #:
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AUSRIVAS FIELD LABEL	AUSRIVAS FIELD LABEL	AUSRIVAS FIELD LABEL	AUSRIVAS FIELD LABEL
Date/	Date//	Date//	Date//
Location Code:	Location Code:	Location Code:	Location Code:
Habitat:	Habitat:	Habitat:	Habitat:
Collector:	Collector:	Collector:	Collector:
Picker:	Picker:	Picker:	Picker:
Sample #:	Sample #:	Sample #:	Sample #:
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Collector:	Collector:	Collector:	Collector:
Picker:	Picker:	Picker:	Picker:
Sample #:	Sample #:	Sample #:	Sample #:
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Habitat:	Habitat:	Habitat:	Habitat:
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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	Pass/fail	Name	Date	Error/action	
remaining	(Pass ≤ 5%)			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		
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NUMBER OF VIALS		