General conclusion	<u> </u>								
General Conclusion	3								
Water tests have sh	own that the catchment is in good condition and that	general water	quality has	being maint	ained over	the last 12 y	ears		
	hment into Berowra Creek at Crosslands most resul					n effect impr	oving the w	ater as it flow	s through
	the catchment, closer to residences, results are not a								
	gh in the catchment, tends to be high in phosphorous								
	chment at Mansfield Road is high in salts, as measu		al conductiv	ity tests and	d shows a la	rge variation	n, with a lon	g flat tail	
	w but has increased significantly over the last 18 mo			():4 b -4b	Charltone	Ol Ctill (Ol. Casaslas	-1-	
vaterbug (Macroinv	ertebrates) observations have found Mayflies, Caddi	istiles at somet	times Stone	illes at both	Charitons	K and Still	CK Crossian	as	
Conclusions about	compliance with ANZECC water quality guideline	es: % within c	uidelines						
Available	Fairly good on exit from the catchment, although in re	ecent years, th	is has decr	eased to 84	%				
Phosphate	83% of mid-catchment tests were within guidelines, s	similar over the	e years						
	Only 29% on exit from the catchment likely due to the								
Conductivity	Only 9% of mid-catchment results were within guideli	ines due to ged	ology rather	than huma	n disturban	ce of the soi	l and not re	garded as inc	licating a
	Good results with 96% within guidelines on catchmer						obmort		
Ecoli	Previously good with over 90%, but in last 18 months	s rias been 899	% at catchm	ent exit and	and 7 איסנ סוב	ro% mid cat	criment		
Turbidity	Very good: almost 100% within guidelines								
	Very good: 100% within guidelines	-							
	10.7 good. 10070 William galdoniloo								
onclusions from	statistical analysis, time series and specific studi	es							
	, , , , , , , , , , , , , , , , , , , ,								
vailable	Negative impact sources: nutrients via run off from fe	ertilisers, livest	ock/animal	wastes, sep	tic treatmen	t of waster v	vater		
	Test results vary greatly, also the testing method for	values of 0.06	and below	can be read	as the sam	ne value, wh	ich is still a	good result	
	Result means have not varied significantly during the								
	Catchment exit is 65% of the mid catchment Phosph								
	The significant effect of rain within 24 hours, compared with nil for 7 days is 70% more at Charltons, 187% more at Still Mansfield and 45% at catchn For rain within 24 hours, heavy rain compered with light rain results in 130% higher readings at Catchment exit and mid catchment and even higher								
							d mid catch	ment and ev	en higher
	High flows result in 190%, 210% and 500% increase								
	Charltons Ck without flow is 5 times normal due to bu Water treatment (3 stage for grey and black househo						nore in a br	of 2012 ctud	.,
	water treatment (3 stage for grey and black housene	Jid ellidelli) is	1700 unies	EXIL SILE UES	pite using i	U-prios ciea	lileis III a bii	101 2012 3100	у
alts	Negative impact sources: human activity involving w	aste water and	d run off						
	Catchment exit is 65% of the mid catchment Phosph			n plus biolo	gical clean-	up within the	50% of cat	chment not r	opulated
	The effect of rain within 24 hours, compared with nil t								
-	For rain within 24 hours, heavy rain compered with li								
	Charltons Ck without flow is 5 times normal due to bu	uild up in water	rholes witho	ut flushing fi	rom 2012 s	tudies			
	High flows result in 25% to 45% decreased salts at the								
	Charltons Creek and Mansfield had an unexplained						returned to	more typical	levels
	Charltons Ck without flow is 1.7 x normal due to build								
	Water treatment (3 stage for grey and black househo	old effluent) is	2.2 times m	id-catchmer	nt test result	ts in a 2012	study		
					-				
	Higher DO results in increased ability to sustain aqua Results are fairly consistent with the standard deviati		of the meet	o for all thre	on niton				
	All three sites showed an increase over the 12 years					roc further in	voctigation	into this bon	oficial offe
	As results above 10 are unlikely with this test, future					les iuitilei ii	lvestigation	IIIO IIIS Dell	eliciai elle
	Charltons Ck without flow is 60% of normal dissolved					in waterhole	96		
	A brief diurnal trial on a flowing creek showed no sign								
-									
	Sources: livestock and other animal faeces, septic tr	eatment failure	es or poor m	aintenance					
.coli						now 4 incide	nts per year	, previously 1	incident
	Overall not often at very bad levels but has deteriora				low flows				
į.	Overall not often at very bad levels but has deteriora High flows result in increased E. coli detection, 21%,		h 10% for m	edium and i	IOW HOWS				
		compared with				xplained			
	High flows result in increased E. coli detection, 21%, In the last 18 months 50% of high flows resulted in E	compared with coli detection	, previously	it was 15%:	this is une				
	High flows result in increased E. coli detection, 21%,	compared with coli detection	, previously	it was 15%:	this is une				
Furbidity	High flows result in increased E. coli detection, 21%, In the last 18 months 50% of high flows resulted in E Sources: sediment from erosion, loss of topsoil and b	compared with coli detection building sites: g	, previously good and ur	it was 15%: hichanged ov	this is une				
Furbidity	High flows result in increased E. coli detection, 21%, In the last 18 months 50% of high flows resulted in E	compared with coli detection building sites: g	, previously good and ur	it was 15%: hichanged ov	this is une				
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