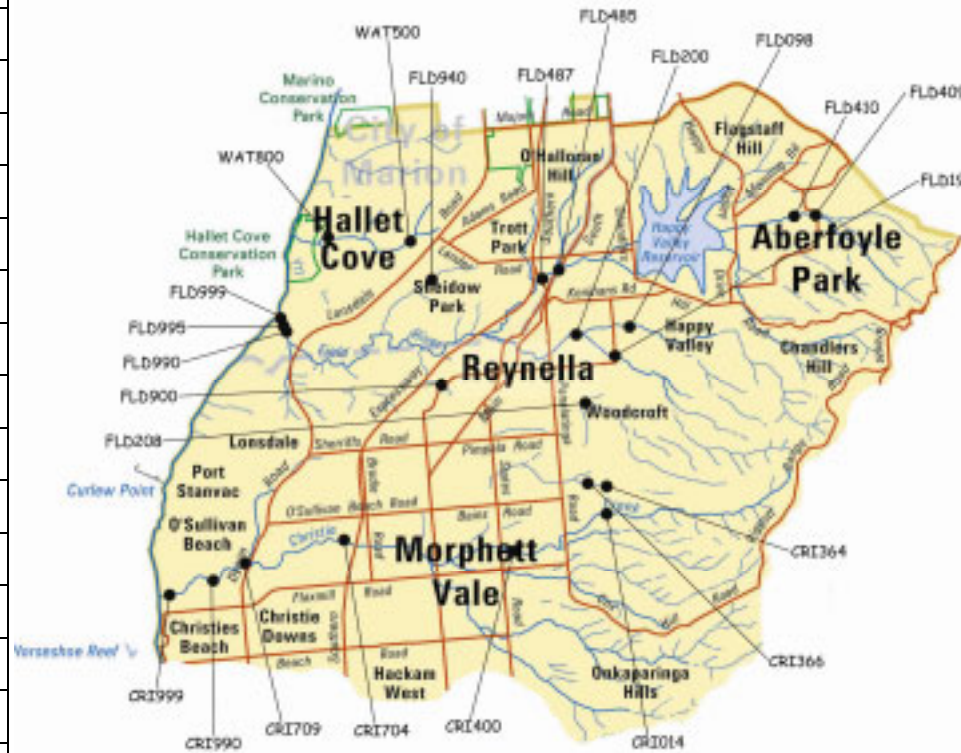


Onkaparinga Waterwatch Snapshot 3

Northern Coastal sites monitored		
Code	Group Name	Site Description
CRI014	Upper Christie Creek Group	Christie Creek, olive lane at bottom of property
CRI333	Upper Christie Creek Group	Dam on Jeff Smith's property
CRI400	Debbie Dunn Home School	Main Ck in Wilfred Res, draining golf course from E
CRI702	Christies Beach High School	Main Christie Ck on Brodie Rd bridge upstream side
CRI704	Christies Beach High School	Christie Creek, track straight from end Sunningdale Rd
CRI705	Christies Beach High School	E end of tunnel where railway line X's Christie Creek
CRI706	Christies Beach High School	W end of tunnel, where railway line X's Christie Creek
CRI709	O'Sullivan Beach P.S.	Christie Ck next 2 bridge on Dyson Rd on downstream side
CRI990	O'Sullivan Beach P.S.	Christie Ck, reserve adj to S of O'Sullivan Bch PS
CRI999	O'Sullivan Beach P.S.	Christie Ck next to bridge upstream of mouth
FLD065	Happy Valley PS	Panatalinga Creek behind school grounds
FLD409	Aberfoyle Hub P.S.	Thalassa Creek near school, Outlook Drive
FLD410	Heysen PS	Field River, under footbridge over creek between school and BMX track
FLD485	Braeview PS	Tripoli Road Bridge
FLD487	Braeview P.S.	Braeview site 2. located downstream from site 1. Fountain valley
FLD490	Woodend P.S.	Hallet Reserve, near Hallet Bridge just downstream from South Rd
FLD504	Woodend P.S.	Field River under Young St bridge
FLD510	Woodend P.S.	Wetland between Young St & Charles Tank Ave
FLD889	Sunrise Christian School	Creek directly behind shops across road from school
FLD900	Reynella South P.S.	Tributary in reserve, corner of Karyn Cres & Robertson St
FLD935	Sheidow Park P.S.	Creek cross under Lander Road from NE, downstream of road
FLD940	Woodend P.S.	Field River tributary below park, downstream of Berrima Rd
FLD944	Woodend P.S.	Watercourse on corner of Lander Ave & Berrima Rd
FLD995	Hallett Cove Conservation Park	Field river, Cormorant Drive
FLD999	Hallett Cove Conservation Park	Mouth of Field River on beach South of Hallett Cove
WAT500	Hallett Cove East P.S.	Waterfall Creek in park off Madison Ct, reedy area, pool
WAT700	Hallett Cove R-12 School	Waterfall Creek at the end of Sandison Rd

Northern Coastal catchments
Incorporating: Waterfall Creek, Field River,
Christie Creek catchments



A yellow fish again this month....
Salinity and nitrate levels remain a possible concern.



Catchment overview

Salinity

Salinity levels this month were getting back to levels recorded at Snapshot #1. However this time there were slightly more sites recording a low salinity. Not quite enough however to stop a red fish being allocated. Most of the sites that had elevated salinity readings recorded levels in excess of 2000ECUs.



pH

All sites recorded a pH level within the acceptable range.



Nutrients




Once again the majority of the phosphate levels were low with only 1 of the 15 sites having levels that may be of concern. The nitrate is once again a very different story. The vast majority of the sites had levels that might indicate possible problems, with three sites (FLD504, FLD999 & WAT700) having very high readings around 4 mg/l.



Turbidity

Turbidity levels at the majority of the sites were once again very acceptable. With only a couple of sites having water cloudy enough to be considered a possible problem. Only one site (FLD944) had water that would be considered poor.



What does your fish mean?		
		
Good water quality	Possible problems	Poor quality water



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Frogs heard:



Common froglet: CRI333

Spotted grass frog: -

Brown tree frog: -

Banjo frog: -

Bibron's Toadlet: -

Painted frog: -

Macroinvertebrates:



No samples collected: at sites

Macro of the month:
Water boatmen

There are over 300 species of Corixidae worldwide. They grow 4 - 10 mm long, depending on the species.

Water boatmen have hind legs that are long and oar-like and are used for swimming. Their middle legs are used for clinging to the substrate. The first pair have scoop-shaped 'tarsi' (the segments at the end of their front legs), which are used to scoop up detritus or in finding prey. Their wings are only present in the adult stage. Their bodies are so buoyant that, when underwater, they must swim or they float to the surface. Therefore they cannot stay still!

Water boatmen are often the first colonisers of newly flowing water. They are very common in almost all aquatic habitats in SA, including saline and polluted waters. Fly-fishers sometimes tie flies that resemble water boatmen as they are a favoured food source for freshwater fish.

Source: EPA Critter Catalogue

Nutrient Comparison March vs June 06

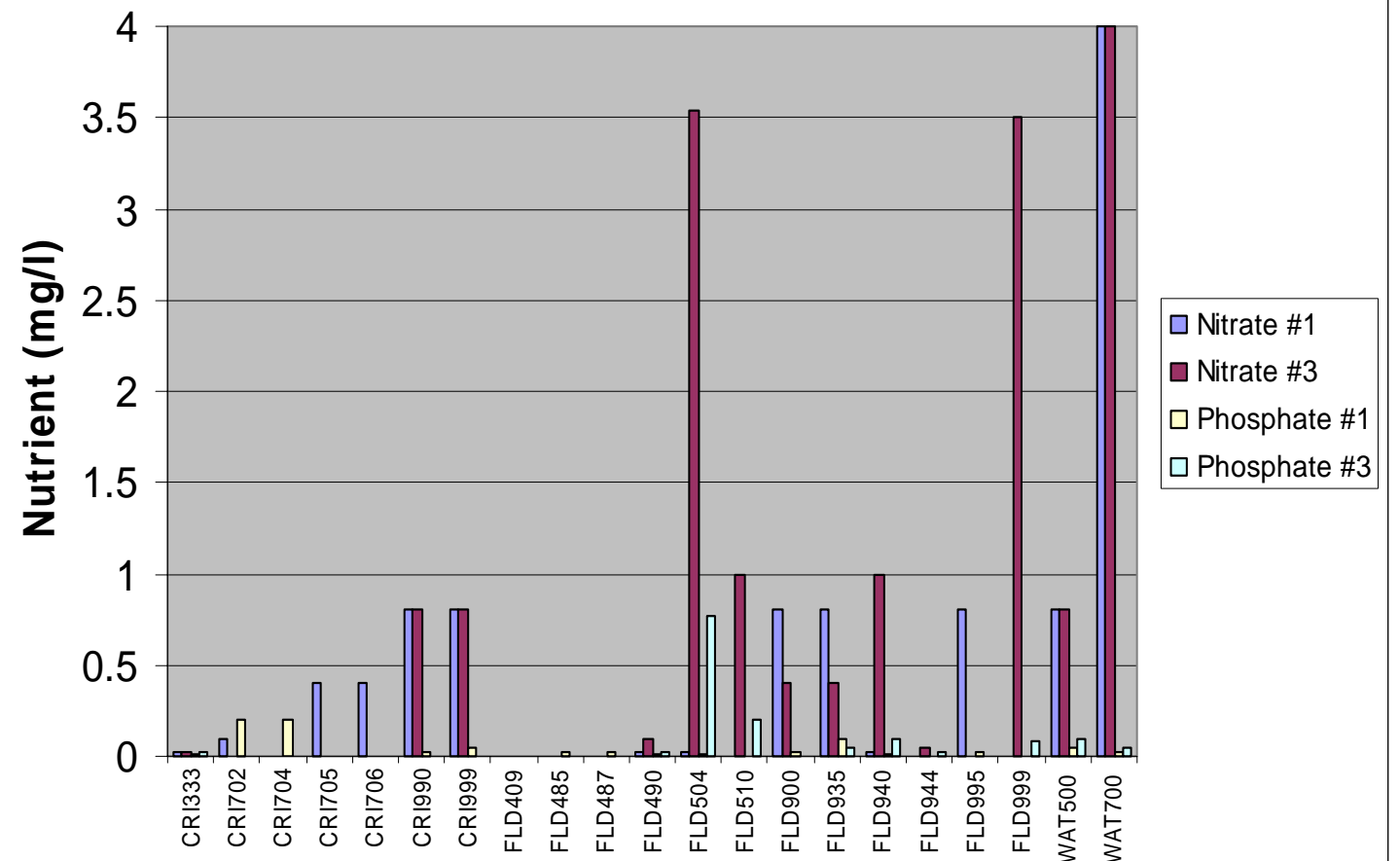


Table of results June 2006

Code	Date	EC (uS/cm)	Nitrate (mg/l)	pH (Units)	Temp (Degrees C)	Phosphate (mg/l)	Turbidity (NTU)
CRI014	14/06/2006	0	0.	0.0	0.0	0.	0
CRI333	14/06/2006	340	<0.05	7.5	10.7	0.025	<10
CRI990	16/06/2006	6150	0.8	8.0	13.0	0.	10
CRI999	16/06/2006	7130	0.8	7.5	15.0	0.	10
FLD409	16/06/2006	0	0.	0.0	0.0	0.	0
FLD490	13/06/2006	490	0.1	7.5	10.0	0.025	15
FLD504	16/06/2006	2840	3.54	7.5	10.0	0.768	20
FLD510	16/06/2006	400	>0.8	7.5	15.0	0.2	30
FLD900	23/06/2006	4860	0.4	7.5	14.0		20
FLD935	14/06/2006	2570	0.4	7.5	12.0	0.05	<10
FLD940	16/06/2006	750	>0.8	7.5	9.0	0.1	20
FLD944	16/06/2006	290	0.05	7.5	10.0	0.025	90
FLD999	13/06/2006		3.5	8.5		0.08	15
WAT500	14/06/2006		0.8	8.0		0.1	<10
WAT700	15/06/2006	3940	4.	8.5	15.0	0.05	20

Sites with a '0' reading for all parameters were dry this month. * indicates an estuarine site.

How healthy is your site?			
	Good	Possible problems	Poor
pH	6 - 8.5		<6 or >8.5
Salinity (ECUs)	<1000	1000-2000	>2000
Turbidity (NTU's)	<20	20-50	>50
Nitrate (mg/L)	<0.1	0.1-1.0	>1.0
Phosphate (mg/L)	<0.1	0.1-1.0	>1.0
This table is based on water quality criteria as recommended by the SA EPA (1998). This table should only be used as a guide to water quality. There are many substances and organisms which have not been tested for which may or may not be present in the water and which can have effects on the ecosystems.			