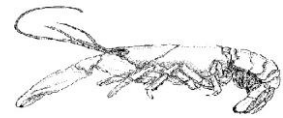




Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 20 March 2022

Scope

- Aquatic invertebrate sampling at sites 2 and 3 (our downstream sites).
- Basic chemistry tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 2 and 3 (our downstream sites).
- Ammonium tests at all sites.
- Flow measurement and/or observations at all sites.

Weather Conditions

Previous week: Mild, 1 mm rain

Previous 24 hours: Sunny, no rain.

During testing: Sunny, no rain.

Water Quality Results

	YSC010 Site 1A Fiander arm	YSC012 Site 1B Crosby arm	YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek
Air Temp C	22	22	19	19
Water Temp C	20	20	18	18.5
pH	7.3 G	6.9 E	6.9 E	6.9 E
Oxygen Conc. mg/l			5.0 F	3.9 D
Conductivity E.C.	430 F	260 F	480 F	530 P
Turbidity F.T.U	5 E	11 E	16 G	28 P
Phosphorus, soluble ppm			0.042 F	0.033 F
Ammonium NH ₄ ⁺ ppm	0.01 E	0.01 E	0.10 F	0.02 E
Stream Flow estimate l/s	2.7	3.6	11.4	0.0

(E = Excellent, G = Good, F = Fair, P = Poor, D = Degraded)

Macro Invertebrates Results

		YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek
	Bug score (sensitivity weighting)	Number found	Number found
Sensitive			
<i>Damselfly larvae</i>	6	20	10
<i>Dragonfly larvae</i>	6	10	1
<i>Water Mites</i>	5		50
Tolerant			
<i>True Bugs (Backswimmers, Water Scorpions, Water Boatmen, Lesser Water Striders, Water Striders/Treaders)</i>	4	2	
<i>Leeches</i>	3	3	7
<i>Snails (freshwater)</i>	3		50
<i>Flatworms</i>	3	10	20
Very Tolerant			
<i>Mosquito larvae</i>	2		50
<i>Fly larvae</i>	2	30	5
<i>Freshwater segmented worms</i>	1	1	50
<i>Blood worms</i>	1	10	
Total Number Found		86	243
Total Bug Score		26	31
Stream Condition		Poor	Fair

Comments:

The creeks are recovering from the low flow conditions of the last 2 months. (Valley Creek has not been flowing on the day of any of our site visits this year - we sampled from the pools that remain).

- The number of Excellent water quality results has risen from 4 in January, to 8 in March, and the number of Degraded water quality results has fallen from 7 in January, to 1 in March.
- The invertebrates sample ratings were Poor for site 2 (Scotchmans Ck at Regent St), and Fair for Valley Ck (unfortunately, an unusually large number of mosquito larvae contributed to this Fair result).

FGB 23/3/22