

# Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

# Waterwatch Report 21 January 2024

### Scope

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

#### **Weather Conditions**

Previous week: 44 mm rain.

Previous 24 hours: Sunny, no rain. During testing: Overcast, sunny.

## **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	18	18	18	18
Water Temp C	17.5	17	17	16.5
рН	7.6 G	7.3 G	6.9 E	7.0 E
Oxygen Conc. mg/l Conductivity E.C.	600 P	470 F	7.0 G 560 P	5.2 F 560 P
Turbidity F.T.U	9 E	12 E	20 P	33 D
Phosphorus, soluble ppm			0.088 P	0.036 F
Ammonium NH4+ ppm	0.00 E	0.00 E	0.01 E	0.00 E
Stream Flow estimate 1/s	3.5	1.1	8.4	0.8

(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	Number found	Number found
Sensitive			
Damselfly larvae	6	4	2
Freshwater mussel	5	10	5
Tolerant			
Leeches	3	4	2
Snails (freshwater)	3	3	50
Flatworms	3	5	1
Very Tolerant			
Fly larvae	2	0	2
Freshwater segmented worms	1	0	5
Blood worms	1	10	10
<b>Total Number Found</b>		36	77
<b>Total Bug Score</b>		21	24
<b>Stream Condition</b>		Poor	Poor

#### **Comments:**

- There was a localised storm cell in the early morning hours of 16th January, which brought heavy downpour and caused some erosion of the creek banks.
- Oxygen concentration at Site 2 was Good, Fair for Site 3.
- Conductivity reading was Poor for Sites 2 & 3, Poor to Fair for Sites 1a & 1b.
- Turbidity was Poor to Degraded for Sites 2 & 3, Excellent for Sites 1a & 1b.
- Phosphorus results were Poor for Site 2 and Fair for Site 3.
- Ammonium results were Excellent for all sites.
- The invertebrate survey ratings ('Waterwatch' method) were Poor for both downstream sites.

ML / FJB 21/01/24.