



## Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

### Waterwatch Report 21 May 2023

#### Scope

- No aquatic invertebrate sampling at sites 2 and 3 (downstream sites).
- Basic chemistry and ammonium tests at all sites. No pH was tested due to indicator unavailable.
- Dissolved Oxygen and Phosphate tests at sites 2, 3 (downstream sites).
- Flow measurement and/or observations at all sites.

#### Weather Conditions

Previous week: 20 mm rain.

Previous 24 hours: 12 mm rain overnight.

During testing: Overcast.

#### Water Quality Results

	<b>YSC010 Site 1A Fiander arm</b>	<b>YSC012 Site 1B Crosby arm</b>	<b>YSC020 Site 2 Regent St</b>	<b>YVA100 Site 3 Valley Creek</b>
Air Temp C	10.5	10.5	10.5	10.5
Water Temp C	11	11	10.5	11
pH				
Oxygen Conc. mg/l			10.0 E	9.6 E
Conductivity E.C.	220 G	160 G	110 G	180 G
Turbidity F.T.U	36 D	23 P	40 D	54 D
Phosphorus, soluble ppm			0.000 E	0.013 G
Ammonium NH <sub>4</sub> <sup>+</sup> ppm	0.00 E	0.00 E	0.07 G	0.00 E
Stream Flow estimate l/s	166.6	181.3	210.0	59.9

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

**Comments:**

- The scheduled invertebrates sampling was not done due to high water level and fast flow from overnight rain.
- As expected, Turbidity was Poor to Degraded for all sites; upstream and downstream branches were muddied by overnight rain. Oxygen concentration at Sites 2 & 3 were excellent.
- Ammonium results were Good to Excellent for all sites.
- Stream flows are high – Regent St Site 2 was close to bankful and Valley Creek Site 3 was over bankful.

Regent St creek – looking upstream (left) and looking downstream (right) :



Valley Creek was over bankful :



ML / FGB 21/05/23.