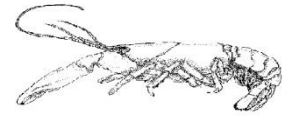




Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 24 November 2024

Scope

- No aquatic invertebrate sampling at sites 1a and 1b (upstream sites).
- Basic chemistry and ammonium tests at all sites.
- Dissolved Oxygen and Phosphate tests at the upstream sites.
- Flow measurements were estimates and observations at all sites.

Weather Conditions

Previous week: Mild to hot, 12 mm rain.

Previous 24 hours: Sunny, hot. Then 4mm rain overnight.

During testing: Steady rain, on and off.

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	19	19	19	19
Water Temp C	20	20	19.5	19
pH	6.8 E	6.8 E	6.7 E	6.8 E
Oxygen Conc. mg/l	8.4 E	8.4 E		
Conductivity E.C.	60 E	60 E	80 E	260 F
Turbidity F.T.U	33 D	34 D	42 D	83 D
Phosphorus, soluble ppm	0.059 P	0.114 D		
Ammonium NH ₄ ⁺ ppm	0.30 P	0.07 G	0.30 P	0.07 G
Stream Flow estimate l/s	~130	~130	267*	~30 **

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

*We used Melbourne Water's flow gauge data to convert 23.1 ML/day (@ 9:24am) to give 267.1 L/s.

** We estimated site YVA100 (Valley Creek) to have one-tenth of the stream flow of site YSC020 (Regent St).

Comments:

- There was no aquatic macroinvertebrates sampling due to fast and rapid flow of the creek.
- During sampling of aquatic macroinvertebrates during the week for a school group at Regent St, it was observed that the in-stream vegetation was making a recovery and there were some patches of living vegetation.
- The chemistry testing was performed under cover.
- The pH level was Excellent for all sites.
- The oxygen level and Conductivity were Excellent for Sites 1a and 1b.
- The conductivity level at sites YSC010, YSC012 and YSC020 were Excellent but for Site YVA100 it was only Fair.
- The turbidity level for all sites were Degraded, as expected due to fast flow.
- The phosphorus level for site YSC010 was Poor and for site YSC012 it was Degraded.
- The ammonium test results were Excellent for sites YSC012 (Crosby arm) and YVA100 (Valley Ck); but Poor for sites YSC010 (Fiander arm) and YSC020 (Regent St).

MYL / FGB 24/11/24