



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 23 Apr 2017

Scope

- Basic chemistry tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 1a, 1b (the upstream sites).
- Ammonium tests at all sites.
- Flow measurement and/or observations at all sites.

Weather Conditions

During testing: Sunny.

Previous 24 hours: Sunny, late showers, 2mm rainfall.

Previous week: Mild, 15 mm rainfall.

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	17	17	17	17
Water Temp C	16.5	17	16.5	16
pH	7.2 G	7.0 E	6.7 E	6.8 E
Oxygen Conc. mg/l	8.1 E	8.5 E		
Conductivity E.C.	250 F	170 G	290 F	190 G
Turbidity F.T.U	16 G	6 E	19 F	25 P
Phosphorus, soluble ppm	0.029 F	0.065 P		
Ammonium NH ₄ ⁺ ppm	0.03 E	0.03 E	0.20 P	0.00 E
Stream Flow (volume) l/s	3.6	7.5	25.2	0.3

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

Comments:

- Work to construct a litter trap prevented our access to sites 1a and 1b, so samples for site 1a were obtained 20 metres upstream of the usual location and for 1b were obtained 200 metres upstream of the usual location. We did not sample invertebrates at sites 1a and 1b as scheduled.
- All the creeks were flowing, following moderate rainfall. Scotchmans Ck was flowing noticeably more strongly downstream at site 2 (Regent St) than the total flow upstream at sites 1a and 1b (Fiander and Crosby arms). This is probably the wetlands delaying the flow from the 15 mm rainfall in the previous 3 days.
- All the water analysis results were Fair to Excellent, except
 - A Poor phosphorus result in the Crosby Arm (site 1b, Glen Waverley Drain). Note that phosphorus results in these creeks are usually mid-range.
 - A Poor ammonium result in Scotchmans Ck, downstream at site 2 (Regent St). This is unusual and may be a result of dredging and other earthmoving work in the wetlands just upstream.

FGB, 23/Apr/2017