



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 14 Nov 2021

Scope

- Aquatic invertebrate sampling at site 1b (Glen Waverley Drain).
- Basic chemistry tests at all sites.
- Dissolved Oxygen tests at sites 1a, 1b (our upstream sites).
- Flow measurement and/or observations at all sites.

Weather Conditions

Previous week: Cool, 29 mm rain.

Previous 24 hours: 5 mm rain.

During testing: Overcast, cold.

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	11	11	11	11
Water Temp C	13	12	12.5	11.5
pH	7.5 G	7.5 G	7.2 G	7.2 G
Oxygen Conc. mg/l	9.6 E	9.7 E		
Conductivity E.C.	410 F	520 P	380 F	570 P
Turbidity F.T.U	152 D	28 P	39 D	35 D
Phosphorus, soluble ppm				
Ammonium NH ₄ ⁺ ppm				
Stream Flow estimate l/s	56.0	46.6	269.3	18.4

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

Macro Invertebrates Results

		YSC012 Site 1B Crosby arm
	Bug score	Number found
Tolerant		
<i>Freshwater Sandhoppers (Amphiopods)</i>	4	1
<i>Snails (freshwater)</i>	3	10
<i>Flatworms</i>	3	10
Very Tolerant		
<i>Freshwater segmented worms</i>	1	20
<i>Blood worms</i>	1	20
Total Number Found		61
Total Bug Score		12
Stream Condition		Poor

Comments:

- Creek flows were high, following good rain in the previous week and overnight.
- Scotchmans Creek at our upstream site (1a, ME_YSC010) was exceptionally muddy, with a yellow-brown clay colour.
 - The turbidity reading was the highest we can recall occurring at any of our monthly scheduled site visits, and appeared similar to the occasional very muddy flows seen at other times. The turbidity event had not arrived downstream during our visit, and it cleared in a day.
 - We could not see into the water at this site and could not see the vegetation, snags, or the creek bottom. We did not get into the creek and did not sample it for waterbugs.
- Across all the sites, pH was Good, conductivity was Fair to Poor, turbidity Poor to Degraded. Oxygen levels (measured only at the upstream sites) were Excellent, typical after rain.
- Our waterbug sample from the Crosby Arm (site 1b, Glen Waverley Drain) had very low bug counts, and all were tolerant or very tolerant, resulting in a Poor rating.

FGB 30/11/21