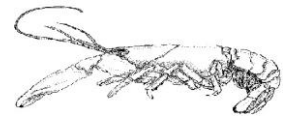




Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 1 August 2021

Scope

- Basic chemistry tests at all sites.
- Dissolved Oxygen tests at sites 2, 3.
- Flow measurement and/or observations at all sites.
- Habitat surveys at sites 2, 3.

Weather Conditions

Previous week: Cold, 5 mm rain

Previous 24 hours: Partly cloudy, followed by 23 mm rain event.

During testing: 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	10	10	10.5	10.5
Water Temp C	11.5	11	10	10
pH	7.6 G	7.3 G	7.0 E	7.0 E
Oxygen Conc. mg/l			10.0 E	9.6 E
Conductivity E.C.	450 F	350 F	190 G	280 F
Turbidity F.T.U	60 D	31 D	43 D	40 D
Stream Flow estimate l/s	23.6	46.8	121.3	1.2

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

Habitat Assessments

Site 2, Scotchmans Creek at Regent St. Weedy ground cover. One area cleared, likely sprayed prior to replanting. Good native overstorey. The scoring was 29/40, rated as Good.

Site 3, Valley Creek. Very weedy groundcover, good native overstorey. The scoring was 28/40, rated as Fair.

The habitat photosets are below.



Site 2 Upstream (2)



Site 2 Instream



Site 2 Downstream



Site 3 Upstream



Site 3 Instream



Site 3 Downstream

Comments:

- Stream flows had settled back to normal after the overnight rain, except the flow out of the wetlands (ie passing site 2) was still higher than normal.
- Turbidity was high (rated Degraded) at all sites.
- Reagents for phosphate and ammonium tests are still unavailable.
- All the measured chemical indicators were in the range Fair to Excellent.
- Habitat assessments at sites 2 and 3 were very similar to previous years, with Good and Fair ratings respectively. At site 2 (Scotchmans Creek near the Regent St footbridge) the major concerns are the bank vegetation and stability. At site 3 (Valley Creek) the concerns are bank and verge vegetation.

FGB 2/8/2021