



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 21 July 2024

Scope

- Basic chemistry and ammonium tests at all sites.
- Dissolved Oxygen tests at the downstream sites (Scotchmans Ck and Valley Ck).
- Habitat assessments at the downstream sites (Scotchmans Ck and Valley Ck).

Weather Conditions

Previous week: 61 mm rain including 37 mm in 24 hours 15-16 July.

Previous 24 hours: Overcast, 6 mm rain.

During testing: Overcast, some sunny breaks.

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	11.5
Water Temp C	11.5	11	10	10
pH	7.6 G	7.2 G	7.2 G	7.2 G
Oxygen Conc. mg/l			10.0 E	9.9 E
Conductivity E.C.	400 F	200 G	220 G	280 F
Turbidity F.T.U	32 D	19 F	25 P	20 P
Phosphorus, soluble ppm				
Ammonium NH ₄ ⁺ ppm	0.00 E	0.00 E	0.00 E	0.00 E
Stream Flow estimate l/s	13.7	26.8	46.4	4.4

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

Habitat Assessments

Site YSC020 (site 2), Scotchmans Ck at Regent St. The west bank and verge have good native vegetation. In-stream vegetation is poor. The east bank and the narrow part of the verge have mixed native and weedy vegetation. The numeric score is 22/40, rated Fair.

Site YVA100 (site 3), Valley Ck at Regent St. The south bank is improved, with fewer weeds, and improved native vegetation. The north bank is well vegetated with native plants. The numeric score is 29/40, rated Good.

The habitat photosets are below.



YSC020 - Upstream IMG_7843



YSC020 - Across IMG_7844



YSC020 - Downstream IMG_7845



YVA100 - Upstream IMG_7846



YVA100 - Across IMG_7847



YVA100 - Downstream IMG_7848

Comments:

- The week's high rainfall has contributed to Excellent dissolved oxygen levels, but mild muddiness measured as Poor turbidity results.
- Phosphate levels could not be measured as we have no remaining test reagent.
- All other chemical measurements were rated Fair to Excellent.
- Habitat scores for Scotchmans Ck at Regent St have been downgraded (but still rated Fair), due to poor in-stream vegetation and poor verge vegetation on the east side opposite the mouth of Valley Ck.
- The habitat rating for Valley Ck remains Good.

FGB 22/July/2024