



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 24 August 2025

Scope

- Basic chemistry and ammonium tests at all sites.
- The Phenol Red indicator normally used for pH tests had been contaminated. When we used the Chlorphenol Red indicator, it gave “Over Range reading” on the meter; hence thymol blue indicator was used.*
- Dissolved Oxygen and Phosphate tests at upstream sites (YSC010, YSC012).
- Flow measurement and/or observations at all sites.

Weather Conditions

Previous week: No rain, now over 1 week.

Previous 24 hours: Sunny.

During testing: Cold, 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	9	10	10	10
Water Temp C	10	11	10	10
pH*	7.7 G	6.7 E	6.7 E	7.7 G
Oxygen Conc. mg/l	9.3 E	5.7 F		
Conductivity E.C.	490 F	220 G	490 F	300 F
Turbidity F.T.U	8 E	10 E	9 E	16 G
Phosphorus, soluble ppm	0.261 D	0.368 D		
Ammonium NH ₄ ⁺ ppm	0.00 E	3.75 D	0.40 D	0.00 E
Stream Flow estimate l/s	7.7	21.0	6.4	0.25

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

Comments:

- There had been no rain for over a week. Chemical results typical of low flow conditions were low turbidity, high conductivity and high soluble phosphorus.
- *Although we were able to get pH readings from the meter using thymol blue indicator, the readings were outside thymol blue's effective range, rendering the results invalid and unacceptable. The pH data will not be entered into the Waterwatch portal.
- Ammonium test result was high (rated as "Degraded") for both sites YSC012 (Crosby arm) and YSC020 (Regent Street). The YSC012 sample required a 4% dilution. The council has been notified.
- The high ammonium result from site YSC012 coincided with low oxygen concentration.
- Phosphorus results were rated Degraded for both upstream sites.

ML / FGB 24/8/2025