



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 19 July 2015

Scope

- Basic chemistry tests and flow measurement and/or observations at sites 1a, 1b, 2, 3 (all the on-stream sites).
- Dissolved Oxygen and Phosphate tests at sites 2 and 3 (the downstream sites).
- Annual habitat assessment at sites 2, 3, 5 (the downstream sites and the last wetlands pond).

Weather Conditions

During testing: Cold and sunny.

Previous 24 hours: Overcast.

Previous week: Overcast, cold, 48 mm rain.

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	4	4	4	5
Water Temp C	8	7.5	7.5	6
pH	7.5 G	7.3 G	7.8 G	7.5 G
Oxygen Conc. mg/l			10.0 E	8.6 E
Conductivity E.C.	530 P	290 F	390 F	430 F
Turbidity F.T.U	17 G	8 E	17 G	15 G
Phosphorus, soluble ppm			0.046 F	0.013 G
Ammonium NH ₄ ⁺ ppm	0.02 E	0.01 E	0.04 E	0.01 E
Stream Flow (volume) l/s	13.4	7.4	18.4	3.1

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

Habitat Survey (summary of all sites, June-July 2015)

	YSC010 Site 1A Fiander arm	YSC012 Site 1B Crosby arm	YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek	YSC099 Site 4 Wetland upper	YSC100 Site 5 Wetland lower
Bank Vegetation (max 10)	6	6	8	6	4	8
Verge Vegetation (max 10)	6	6	6	8	6	6
In-stream Cover (max 10)	8	4	6	6	6	6
Erosion & Stability (max 5)	3	4	3	4	4	4
Pools / Riffles / Bends (max 5)	3	3	3	4	3 (nominal score for wetlands)	3 (nominal score for wetlands)
Total	26	23	26	28	23	27
New Rating 2015	Fair	Fair	Fair	Fair	Fair	Fair
Rating in 2014	26, Fair	27, Fair	24, Fair	28, Fair	21, Fair	21, Fair

Comments:

- Fatty pollution in the Glen Waverley Drain, noted in our June report, had been seen by a Melbourne Water team who undertook several days containment and cleaning up using booms, pumps and waste tankers. Other investigative authorities also attended. The remaining contamination on the underwater surfaces has become black and has shrunk or become partially dislodged. Up to date photographs of underwater details accompany this report.
- The sand accumulated below the Turner Court – Crosby Drive footbridge, and at the entrance of the litter trap, has been scooped out.
- The phys/chem water quality indicators are all Fair to Excellent, with the exception of Poor phosphate level in the Fiander arm (site 1a).
- All the habitat assessments are similar to 2014 with the exception of a poorer score for the in-stream vegetation in the Glen Waverley Drain (site 1b) because of the pollution reported above.

FGB

20 June 2015