



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 23 October 2016

Scope

- Aquatic invertebrate sampling at site 3.
- Basic chemistry tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 2 and 3.
- Ammonium tests at all sites.
- Flow measurement and/or observations at all sites.

Weather Conditions

During testing: Cold, overcast.

Previous 24 hours: Overcast, 15 mm rain.

Previous week: Some spring-like and some wintry days, 67 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	11	11	11	11
Water Temp C	12	12	12	11
pH	7.5 G	7.3 G	7.3 G	7.1 G
Oxygen Conc. mg/l			9.8 E	9.8 E
Conductivity E.C.	430 F	390 F	420 F	560 P
Turbidity F.T.U	35 D	25 P	38 D	40 D
Phosphorus, soluble ppm			0.036 F	0.003 E
Ammonium NH ₄ ⁺ ppm	0.00 E	0.00 E	0.01 E	0.01 E
Stream Flow (volume) l/s	210.0	56.0	294.0	33.6

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

Macro Invertebrates Results

	YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek
Sensitive	High flow prevented safe wading access for invertebrate sampling.	
<i>Dragonfly larvae</i>		1
Tolerant		
<i>True Bugs (Backswimmers, Water Scorpions, Water Boatmen, Lesser Water Striders, Water Striders/Treaders)</i>		1
<i>Snails (freshwater)</i>		15
Very Tolerant		
<i>Freshwater segmented worms</i>		10
<i>Blood worms</i>		1
Abundance Category		1
Total Bug Score		15
Stream Condition		Poor

Comments:

- We did not sample invertebrates in Scotchmans creek, because it was flowing too strongly for safe sampling access.
- Valley creek was also flowing faster than usual, but was safe for invertebrate sampling. However, as usual in high flow situations, the sample was small and was rated Poor.
- The water quality measurement results were mostly Good to Excellent, except for turbidity and conductivity (the water appeared quite cloudy), also as expected after the previous week's high rainfall.

FGB, 1/11/16