



## Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

### Waterwatch Report 22 March 2020

#### Scope

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

#### Weather Conditions

Previous week: Mild, no rain.

Previous 24 hours: Mild, no rain.

During testing: Cool, overcast, occasional light drizzle.

#### Water Quality Results

	<b>YSC010 Site 1A Fiander arm</b>	<b>YSC012 Site 1B Crosby arm</b>	<b>YSC020 Site 2 Regent St</b>	<b>YVA100 Site 3 Valley Creek</b>
Air Temp C	14	14	14	14
Water Temp C	15	15	15	15
pH	7.1 G	7.0 E	6.9 E	7.1 G
Oxygen Conc. mg/l			4.1 P	5.5 F
Conductivity E.C.	550 P	240 G	470 F	500 P
Turbidity F.T.U	32 D	8 E	12 E	126 D
Phosphorus, soluble ppm				
Ammonium NH <sub>4</sub> <sup>+</sup> ppm	0.07 G	0.00 E	0.03 E	0.07 G
Stream Flow (volume) l/s	8.4	4.7	9.3	0.1

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

## Macro Invertebrates Results

		YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek
	Bug score	Number found	Number found
Very Sensitive			
<i>Caddisfly larvae</i>	7	0	1
Sensitive			
<i>Damselfly larvae</i>	6	4	2
<i>Dragonfly larvae</i>	6	5	0
<i>Freshwater Slaters</i>	5	1	0
Tolerant			
<i>True Bugs (Backswimmers, Water Scorpions, Water Boatmen, Lesser Water Striders, Water Striders/Treaders)</i>	4	0	2
<i>Leeches</i>	3	30	15
<i>Snails (freshwater)</i>	3	20	100
<i>Flatworms</i>	3	100	40
Very Tolerant			
<i>Fly larvae</i>	2	10	0
<i>Freshwater segmented worms</i>	1	15	10
<i>Blood worms</i>	1	10	1
<b>Total Number Found</b>		<b>195</b>	<b>171</b>
<b>Total Bug Score</b>		<b>30</b>	<b>28</b>
<b>Stream Condition</b>		<b>Poor</b>	<b>Poor</b>

### Comments:

- Light drizzle fell just at the start of our testing, after 2 weeks without rain. This started Valley Creek flowing, rather muddily, and may have caused the muddiness of the flow from the Bogong Reserve drain just above site 1a. The water turbidity and conductivity at these sites was correspondingly high.
- We could not test for phosphate because one of the test reagents has all been used. (A replacement has been requested).
- There was much more soft vegetation growth than usual, in the water at site 2 (Scotchmans Ck) and around the pools in Valley Creek (site 3).
- Waterbug variety was not sufficient to rate either site 2 or 3 above Poor.