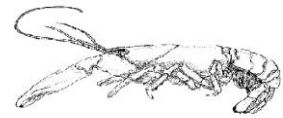




## Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

### Waterwatch Report 23<sup>rd</sup> Nov 2014

#### Scope

- Aquatic invertebrate sampling at sites 1a, 1b.
- Basic chemistry and ammonium tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 1a, 1b.
- Flow measurement and/or observations at all sites.

#### Weather Conditions

During testing: Fine, sunny.

Previous 24 hours: Fine, sunny.

Previous week: Warm, mostly fine, 7 mm rain.

#### 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>	<b>YSC099 Site 4 Wetland upper</b>	<b>YSC100 Site 5 Wetland lower</b>
Air Temp C	19	20	20	20	20	21
Water Temp C	17	17	18	18	20	21
pH	7.3 G	7.0 E	7.0 E	6.8 E	6.9 E	6.5 E
Oxygen Conc. mg/l	3.8 D	4.8 P				
Conductivity E.C.	940 D	400 F	480 F	290 F	220 G	140 G
Turbidity F.T.U	14 E	61 D	17 G	20 P	22 P	0 E
Phosphorus, soluble ppm	0.065 P	0.059 P				
Ammonium NH <sub>4</sub> <sup>+</sup> ppm	0.05 G	0.04 E	0.06 G	0.00 E	0.00 E	0.00 E
Stream Flow (volume) l/s	2.8	3.5	4.9	0.1		

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

## Macro Invertebrates Results

	<b>YSC010 Site 1A Fiander arm</b>	<b>YSC012 Site 1B Crosby arm</b>
Very Sensitive		
<i>Caddisfly larvae</i>	1	1
Sensitive		
<i>Damselfly larvae</i>	20	3
<i>Freshwater mussel</i>	0	2
Tolerant		
<i>Beetle larvae</i>	0	2
<i>True Bugs (Backswimmers, Water Scorpions, Water Boatmen, Lesser Water Striders, Water Striders/Treaders)</i>	1	0
<i>Leeches</i>	1	1
<i>Snails (freshwater)</i>	30	30
<i>Flatworms</i>	30	2
Very Tolerant		
<i>Mosquito larvae</i>	1	0
<i>Midge larvae</i>	2	0
<i>Freshwater segmented worms</i>	16	6
<i>Blood worms</i>	30	30
<b>Abundance Category</b>	<b>3</b>	<b>2</b>
<b>Total Bug Score</b>	<b>32</b>	<b>33</b>
<b>Stream Condition</b>	<b>Poor</b>	<b>Poor</b>

### Comments:

- The water was remarkably clear at all sites except 1b (Crosby arm, Glen Waverley drain).
- We heard frogs calling in the wetlands upper pond (site 4) and netted some tadpoles at the upstream sites (1a, 1b). This is encouraging after the prolonged problems with oil and ongoing occurrences of fatty films in Glen Waverley drain (site 1b).
- We noted an absorbent sampling "sock" installed at site 2 (Regent St).
- We noted a small outbreak of Parrots Feather in the wetlands (site 5). This has been separately reported to appropriate authorities.