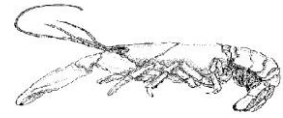# Friends of Scotchmans Creek and Valley Reserve Inc

Inc No A0037872K

Waterwatch Report 18 April 2021

Scope

- Aquatic invertebrate sampling at sites 1a, 1b (our upstream sites)
- Basic chemistry tests at all sites
- Dissolved Oxygen tests at 1a, 1b (our upstream sites)
- Flow measurement and/or observations at all sites.

Weather Conditions

Previous week: Cool, 14 mm rain.
Previous 24 hours: Cool, overcast.
During testing: Cool, overcast.

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	15	15	14	14
Water Temp C	14	14	14	14
pH	7.1 G	6.8 E	6.6 E	7.0 E
Oxygen Conc. mg/l	7.2 G	6.2 G		
Conductivity E.C.	460 F	220 G	400 F	310 F
Turbidity F.T.U	10 E	15 G	11 E	15 G
Phosphorus, soluble ppm				
Ammonium NH4+ ppm				
Stream Flow estimate l/s	3.1	13.4	7.0	0.1

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

Macro Invertebrates Results

	Bug score	YSC010 Site 1A Fiander arm Number found	YSC012 Site 1B Crosby arm Number found
Very Sensitive			
Caddisfly larvae	7	2	0
Sensitive			
Damselfly larvae	6	3	7
Dragonfly larvae	6	2	0
Freshwater mussel	5	2	0
Freshwater Slaters	5	1	0
Tolerant			
True Bugs (Backswimmers, Water Scorpions, Water Boatmen, Lesser Water Striders, Water Striders/Treaders)	4	2	0
Freshwater Sandhoppers (Amphiopods)	4	1	0
Leeches	3	6	6
Snails (freshwater)	3	50	50
Flatworms	3	50	30
Very Tolerant			
Mosquito larvae	2	0	1
Fly larvae	2	6	0
Freshwater segmented worms	1	20	30
Blood worms	1	7	20
Total Number Found		152	144
Total Bug Score		50	19
Stream Condition		**Good**	**Poor**

Comments:

- All the chemical measurements that we could do, were Fair to Excellent.
- The waterbug sample from site 1a (Scotchmans Ck upstream of the Blackburn Rd litter trap) had a variety of creatures ranging all the way from Very Sensitive to Very Tolerant, and was rated Good. The sample from site 1b (the nearby Glen Waverley Drain tributary) was lacking in Very Sensitive or Sensitive creatures and was rated Poor.

FGB   20/Apr/'21