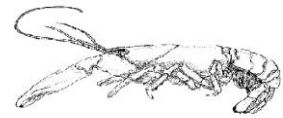




## Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

### Waterwatch Report 22 July 2018

#### Scope

- Basic chemistry tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 2, 3.
- Ammonium tests at all sites.
- Flow measurement and/or observations at all sites.
- Habitat Assessment at Sites 2, 3.

#### Weather Conditions

During testing: Sunny

Previous 24 hours: Cloudy

Previous week: Cloudy, cold, 12 mm rain.

#### Water Quality Results

|  | <b>YSC010<br/>Site 1A<br/>Fiander<br/>arm</b> | <b>YSC012<br/>Site 1B<br/>Crosby<br/>arm</b> | <b>YSC020<br/>Site 2<br/>Regent St</b> | <b>YVA100<br/>Site 3<br/>Valley<br/>Creek</b> |
|--|---|--|--|---|
| Air Temp C                                   | 11.5  | 11.5   | 9                                      | 9   |
| Water Temp C                                 | 10.5  | 10   | 9                                      | 9   |
| pH   | 7.1 G   | 6.8 E  | 6.7 E                                  | 6.7 E   |
| Oxygen Conc.<br>mg/l                         |   |  | 8.0 E                                  | 8.6 E   |
| Conductivity E.C.                            | 430 F   | 210 G  | 280 F                                  | 170 G   |
| Turbidity F.T.U                              | 21 P  | 20 P   | 24 P                                   | 17 G  |
| Phosphorus,<br>soluble ppm                   |   |  | 0.088 P                                | 0.046 F                                       |
| Ammonium<br>NH <sub>4</sub> <sup>+</sup> ppm | 0.40 D  | 0.00 E                                       | 0.30 P                                 | 0.00 E  |
| Stream Flow<br>(volume) l/s                  | 4.5   | 8.7  | 21.6                                   | 0.5   |

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

**Comments:**

- Photographs illustrating the habitat typical of sites 2 and 3 (Scotchmans Ck and Valley Ck at Regent St) are appended below.
  - The native vegetation along Scotchmans Ck is recovering after removal of the willows. 2000 more native plants were put in during a recent working bee. Localised bank erosion is occurring.
  - The south bank of Valley Ck remains very weedy, while the verge behind it has improving native vegetation. The north side has good native vegetation.
- The water chemistry test results were Fair to Excellent except for
  - Poor phosphorus level at site 2 (Scotchmans Creek).
  - Degraded ammonium level at site 1a (Scotchmans Ck upstream) and Poor at site 2 (Scotchmans Ck downstream).
  - Poor turbidity levels at all sites except Valley Ck.

FGB 23/7/18



Scotchmans Creek Site 2 Upstream



Scotchmans Creek Site 2 Instream



Scotchmans Creek Site 2 Downstream



Valley Creek Site 3 Upstream



Valley Creek Site 3 Instream



Valley Creek Site 3 Downstream