



*FRIENDS OF SCOTCHMANS CREEK
AND VALLEY RESERVE INC.*

Reg No A0037872K

WATERWATCH REPORT, AGM 2024

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FSCVR Waterwatch coordinators



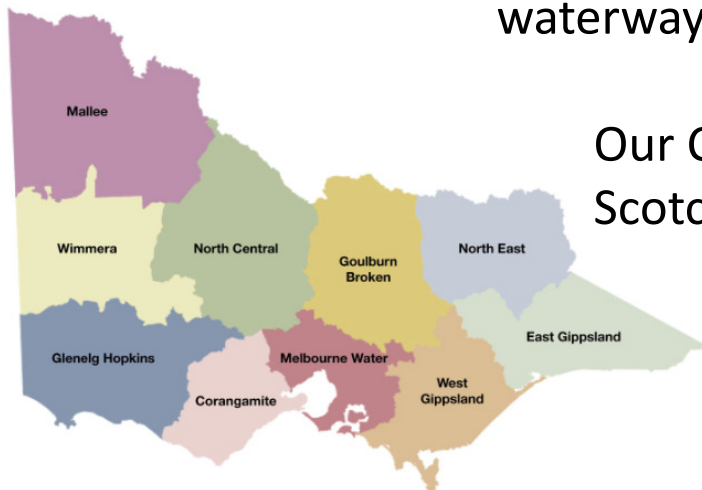
What do we do ?

We monitor this local area's water quality and habitats, and collect data.

6 WW-qualified enthusiasts (free training run by Melbourne Water)
11 monitoring events (excl December) and 4+ related school/TAFE events.



FSCVR Waterwatch group – data going back to 2001 uploaded to MW Waterwatch portal. Data helps MW identify local actions to improve waterway health.



Our Catchment Management Authority (CMA) is Melbourne Water.
Scotchmans Creek is a sub-catchment of Gardiners Creek
(KooyongKoot).

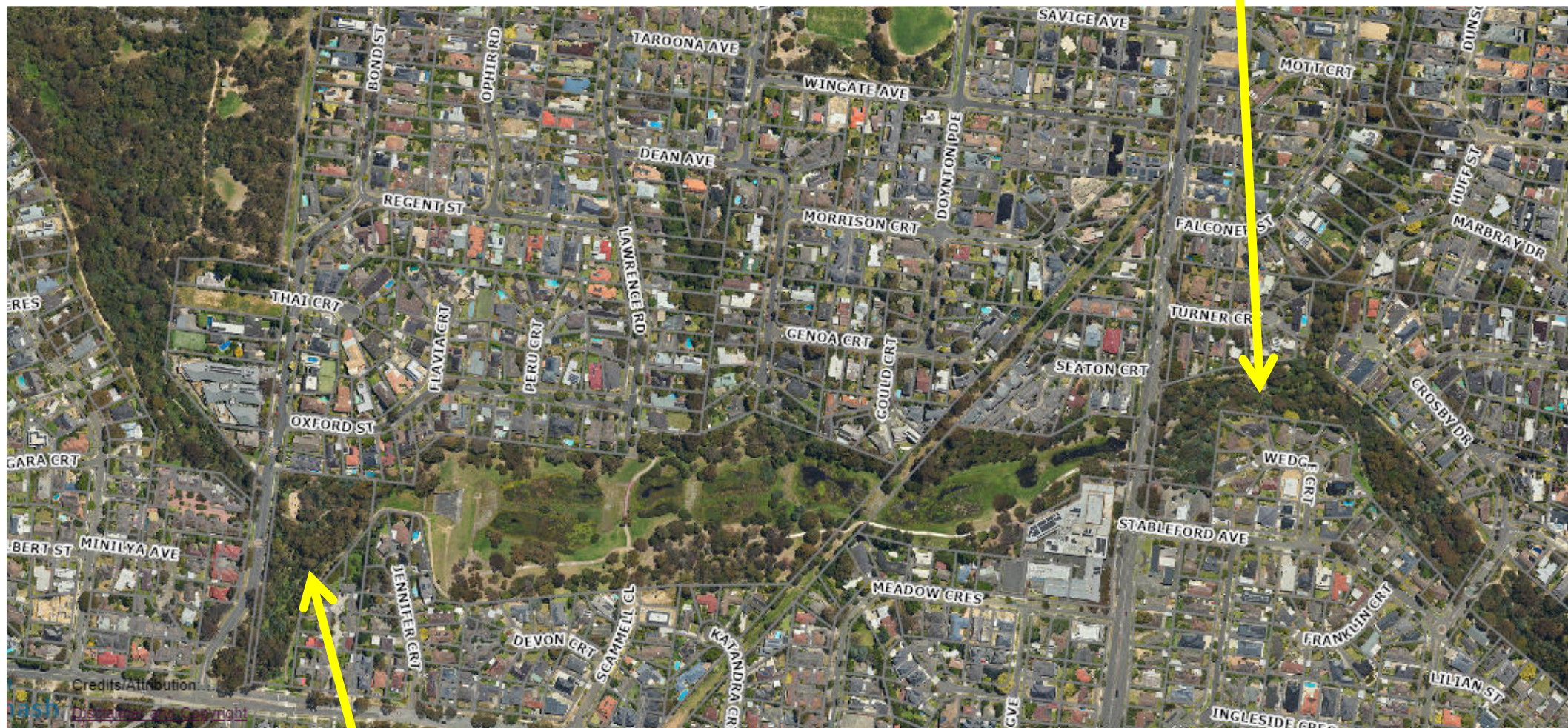
All fall under the Department of Energy, Environment and Climate Action
(formerly the DELWP).



Gardiners Creek (KooyongKoot) catchment

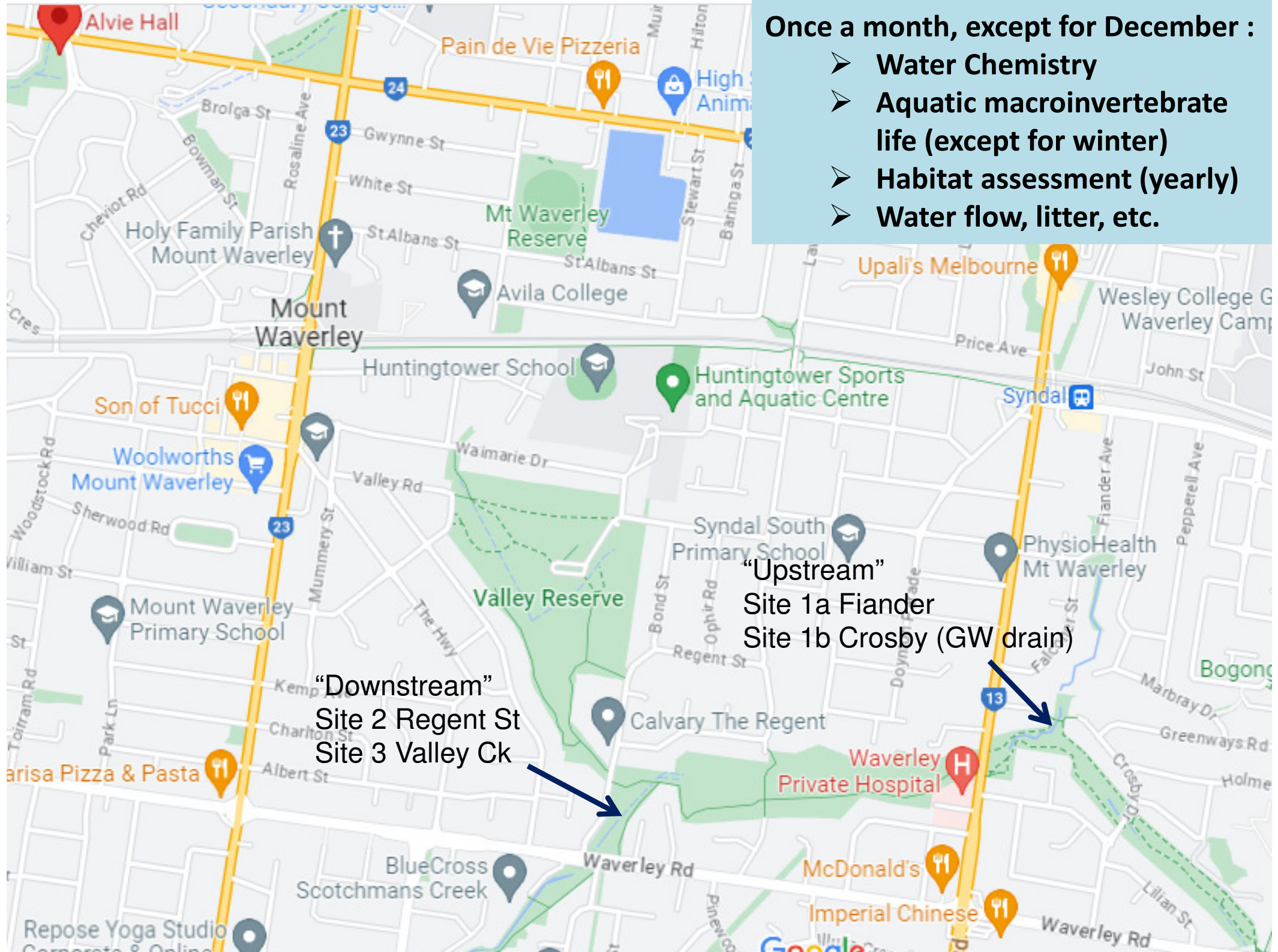
112 km² coverage





Once a month, except for December :

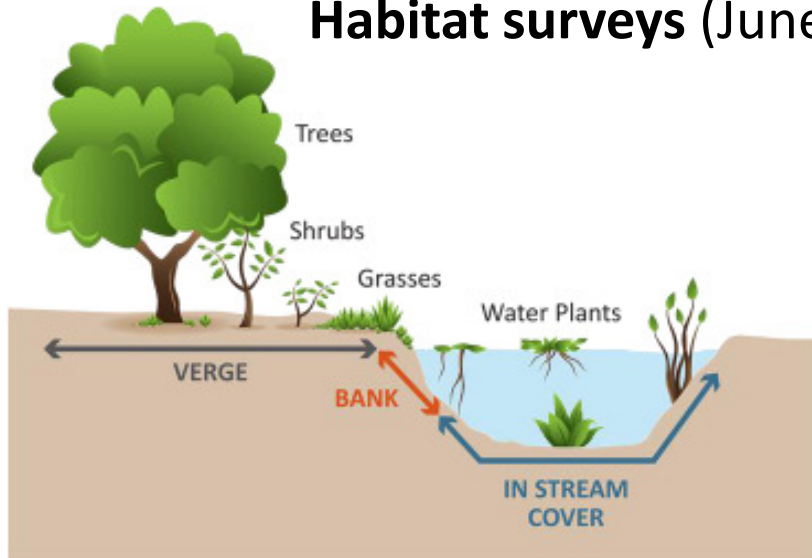
- Water Chemistry
- Aquatic macroinvertebrate life (except for winter)
- Habitat assessment (yearly)
- Water flow, litter, etc.



Test results (for the 4 sites) Oct 2023 to Sep 2024 [5x Regent St, 6x Fiander/Crosby]

Water temperature	8° to 18.5° C
Stream Flow (normally 30 L/sec , flood flows > 5,000 L/sec)	0 – 175 L/sec
pH	Good to Excellent (6.5 - 7.6)
Dissolved Oxygen	Good in winter (from rainfall), poorer in summer
Conductivity	Very variable at Fiander arm (140 - 770 µS/cm)
Turbidity	2 – 44 FTU (tap water is 1 NTU, opaque is >5 NTU)
Phosphorus	Variable
Ammonium	Usually Good to Excellent, only one instance Poor at Regent St in Oct 2023

Habitat surveys (June/July)



Fiander arm	Crosby arm	Regent St	Valley Creek
Fair	Fair	Fair	Good



Invertebrates survey results

Usually Poor, one instance Good at Regent St in Mar 2024

Dive into the underwater world of waterbugs in Melbourne's waterways

Waterbugs are a diverse group of insects, molluscs, crustaceans and other invertebrates that live in different habitats in our waterways.

You can help look after all our aquatic animals by keeping your streets and waterways free from litter and pollution.

SIGNAL 2 score sensitivity to pollution

- 8-10** Very sensitive
- 5-7** Sensitive
- 3-4** Tolerant
- 1-2** Very tolerant
- V** Varies

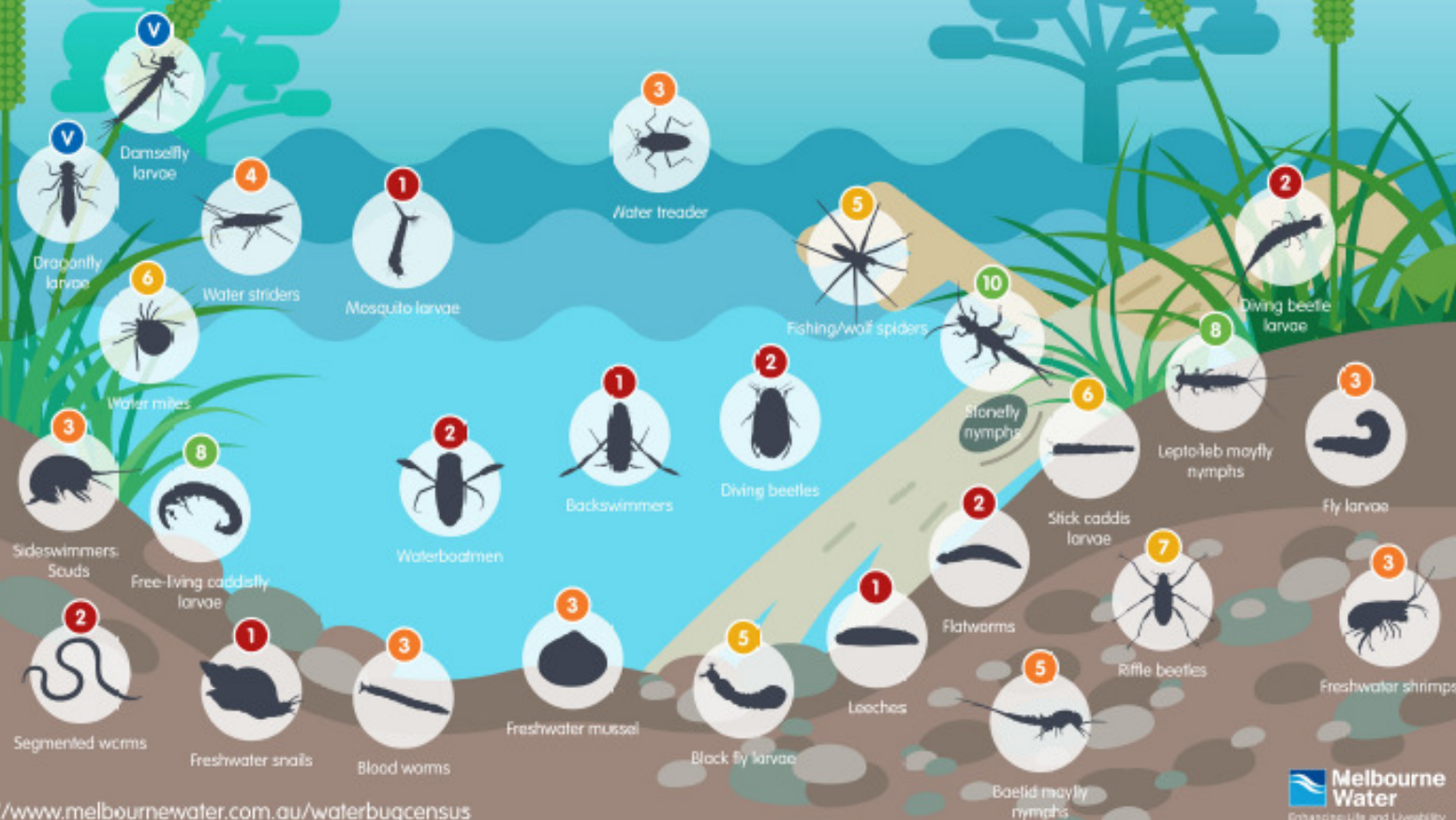
Waterbugs can indicate the health of a waterway by their Stream Invertebrate Grade Number – Average Level (SIGNAL) 2 score. These scores provide a measure of how tolerant or sensitive different waterbugs are to pollution.

Waterbugs

Size of waterbugs not to scale



Waterbug species that can be found in Melbourne's creeks, rivers and wetlands



For more information visit <http://www.melbournewater.com.au/waterbugcensus>

Text from Melbourne Water website

Soil erosion is a major contributor to sediment loads.

Typically, turbidity levels increase from headwaters to lowlands. The old geology and associated high levels of clays result in naturally higher levels of turbidity in our rivers and streams compared to those overseas.

Most of the sediment in rivers and streams comes from catchment and stream bank erosion.









Thank you for your attention !