



Physical & Chemical Tests Record Sheet

(To be completed monthly)

Site Name: <u>Gateway Sanctuary Leopold</u>	Site Code: <u>GWY 010</u>
Name of Monitoring Group: <u>CCMA & Nature Stewards</u>	
Person(s) Conducting the test: <u>DM</u>	
Date of test: <u>10/9/22</u>	Time of test: <u>2:00 pm</u> am/pm
Site Risk Assessment Completed: <input type="checkbox"/> signature please:	
Site risk and management assessment at rear of book. Please note circumstantial hazards and additional risks in the box below	

Test	Result (units)	Calculations, dilutions and comments
Dissolved Oxygen	<u>9.4</u> mg/L % sat.	
Water Temperature	<u>16.5</u> °C	
Air Temperature	<u>16.5</u> °C	
pH	Meter calibrated to <input checked="" type="checkbox"/> pH 7 & <input type="checkbox"/> pH 10.4 <u>7.7</u> pH units	
Electrical Conductivity (Salinity)	Meter calibrated to <input checked="" type="checkbox"/> 1413, <input type="checkbox"/> 2,000 or <input type="checkbox"/> 12,880EC <u>240</u> EC units μS/cm.	
Reactive Phosphorus	<u>0.03</u> mg/L P	<u>Visocolon</u>
Turbidity	<u>16</u> N.T.U./F.T.U.	<u>tube</u>

Weather conditions at the time of sampling:

sunny
 cloudy
 overcast
 raining
 windy

Rainfall:

Last rainfall:
 More than week ago
 During the last week
 During the last 24 hours
 Raining now

Amount of rain (mm) _____

Water flow

Flow indicator (if available) _____ ML/day
 Estimate of flow
 Not flowing (still)
 Not flowing (pool)
 Low (minimum)
 Medium (average)
 High (but below bankfull)
 Flood (over bank)
 Permanent (lakes & wetlands)

Water appearance

Clear
 Milky
 Foamy /frothy
 Muddy
 Smelly
 Stained green
 Scummy
 Oily
 Stained brown
 Other (description)

Stream depth

Depth indicator _____ m
 0 - 50 cm deep
 51cm-1m deep
 1 to 2 m deep
 Unknown depth

Stream width

Average width of stream: _____ m
 < 2 m wide
 2 to 5 m wide
 >5 m wide

Drain present at site: no yes
 Water flowing from drain: yes
 Color _____
 Odour _____

Litter pollutants: (Tick type found)

plastic
 clothing
 car bodies
 paper
 bottles
 polystyrene
 oil
 petrol/diesel
 packets
 cans
 waxed cardboard
 other

Circumstantial hazards and additional risks

Waterwatch Data Management System: Data entry

Hazard:	Risk:	Person entering site visit information <u>DM</u>
Risk Control Measures:		Date of entry
		Site visit approved by Coordinator (initial and date)

Book
52

Went
10

Gateway
Sanct.



Aquatic Invertebrate Data Sheet



Group Name:
Site Code: GW4010
Sample Type (circle): Edge or Riffle

Group Size:
Date Sampled: 10/9/22

For further information refer to the Waterwatch Victoria Methods Manual

AQUATIC INVERTEBRATES NAME	Column 1	Column 2
	Bug scores	Abundance
Very Sensitive Aquatic Invertebrates		
Stonefly Nymph	8	
Mayfly Nymph	7	
Caddisfly Larvae	7	
Sensitive Aquatic Invertebrates		
Toe-biters/Dobsonflies/Alderflies (Megaloptera)	6	
Damselfly Nymph	(6)	3
Dragonfly Nymph	6	
Freshwater Mussel	5	
Aquatic caterpillars (Lepidoptera)	5	
Freshwater Shrimp/prawn	(5)	10
Freshwater Yabbie/Crayfish	5	
Water Mite	5	
Freshwater Slater	5	
Tolerant Aquatic Invertebrates		
Hydra	4	
Beetle Larvae	4	
True Bugs <i>Creeping water bug x 10 little binkle x 100</i> (Backswimmer, Water Scorpion, Water Boatman, Lesser Water Strider, Water Strider/Treader)	(4)	110
Freshwater Sandhopper (Amphipod)	4	
Beetles (Dytiscid Beetles, Whirligig Beetles)	(3)	1
Nematodes	(3)	1
Leech	(3)	1
Snails (freshwater) <i>Physa acuta</i>	(3)	5
Flatworm	(3)	1
Very Tolerant Aquatic Invertebrates		
Mosquito Larvae	2	
Midge Larvae	(2)	5
Fly Larvae	2	
Aquatic Earthworm	1	
Blood Worm	(1)	5
Totals	33	142

Sample Collection:

When collecting the sample work over an area of 10m for 10min.

Live Sorting:

Sort through the sample for 30mins removing one of each different aquatic invertebrate observed and place into a ice cube tray. If after 30mins you find an invertebrate that you haven't observed before, sort for a further 10 mins.

When finished sorting use reference texts to identify each type of invertebrate. Circle the type in column 1 and in column 2, estimating the number found.

Stream Condition Chart:

From the total scores at the bottom of column 1 and 2 use the values to calculate a Stream Condition.

From column 2 use the total no. of animals to find the abundance category. Use the scale on the side to rate abundance category (0-5) and the total in column 1 to find the matching box.

gambusia x 2

Overall Abundance

Categories

Nos. of animals	Category
0-30	1
31-100	2
101-200	3
201-500	4
>500	5

Stream Condition Chart

5		
4	Fair	Very Good
3		
2	Poor	Good
1		

0 18 35 >35

Total Bug Score (Column 1)

Abundance Categories (Column 2)