



## Physical & Chemical Tests Record Sheet

(To be completed monthly)

Site Name: <u>The Moorabool, Ryanford.</u>		Site Code: <u>m00091</u>
Name of Monitoring Group:		
Person(s) Conducting the test: <u>Deirdre, Nova, Grace, Juliette, Brett</u>		
Date of test: <u>24/6/22</u>	Time of test: <u>11:00</u> <u>am</u> /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>7.8</u> mg/L	<u>75</u> % sat.
Water Temperature		<u>12</u> °C
Air Temperature		<u>15</u> °C
pH	Meter calibrated to <input checked="" type="checkbox"/> pH 7 & <input checked="" type="checkbox"/> pH <u>4</u>	<u>7.7</u> pH units
Electrical Conductivity (Salinity)	Meter calibrated to <input type="checkbox"/> 1413, <input type="checkbox"/> 2,000 or <input type="checkbox"/> 12,880EC	<u>1,815</u> EC units µS/cm.
Reactive Phosphorus	<del>0.005</del> <u>0.05</u>	mg/L P
Turbidity	<u>12</u>	N.T.U./F.T.U.
<b>Weather conditions at the time of sampling:</b>		
<input type="checkbox"/> sunny <input checked="" type="checkbox"/> cloudy <input type="checkbox"/> overcast <input type="checkbox"/> raining <input type="checkbox"/> windy		
<b>Rainfall:</b>		
Last rainfall: <input type="checkbox"/> More than week ago <input type="checkbox"/> During the last week <input checked="" type="checkbox"/> During the last 24 hours <input type="checkbox"/> Raining now		
Amount of rain (mm) _____		
<b>Water flow</b>		<b>Water appearance</b>
Flow indicator (if available) _____ ML/day		
<b>Estimate of flow</b>		
<input type="checkbox"/> Not flowing (still)		<input type="checkbox"/> Clear <input type="checkbox"/> Milky <input type="checkbox"/> Foamy /frothy
<input type="checkbox"/> Not flowing (pool) <input checked="" type="checkbox"/> Low (minimum)		<input checked="" type="checkbox"/> Muddy <input type="checkbox"/> Smelly <input type="checkbox"/> Stained green
<input type="checkbox"/> Medium (average) <input type="checkbox"/> High (but below bankfull)		<input type="checkbox"/> Scummy <input type="checkbox"/> Oily <input type="checkbox"/> Stained brown
<input type="checkbox"/> Flood (over bank) <input type="checkbox"/> Permanent (lakes & wetlands)		<input type="checkbox"/> Other (description)
<b>Stream depth</b>		
Depth indicator _____ m <input type="checkbox"/> 0 - 50 cm deep <input type="checkbox"/> 51cm-1m deep <input type="checkbox"/> 1 to 2 m deep <input type="checkbox"/> Unknown depth		
<b>Stream width</b>		
Average width of stream: _____ m <input type="checkbox"/> < 2 m wide <input checked="" type="checkbox"/> 2 to 5 m wide <input type="checkbox"/> >5 m wide		
<b>Drain present at site:</b> <input checked="" type="checkbox"/> no <input type="checkbox"/> yes      Water flowing from drain: <input type="checkbox"/> yes      Color _____      Odour _____		
<b>Litter pollutants: (Tick type found)</b>		
<input type="checkbox"/> paper <input type="checkbox"/> bottles <input checked="" type="checkbox"/> plastic <input type="checkbox"/> clothing <input type="checkbox"/> car bodies <input type="checkbox"/> packets <input type="checkbox"/> cans <input checked="" type="checkbox"/> polystyrene <input type="checkbox"/> oil <input type="checkbox"/> petrol/diesel <input type="checkbox"/> waxed cardboard <input type="checkbox"/> other		
<b>Circumstantial hazards and additional risks</b>		<b>Waterwatch Data Management System: Data entry</b>
Hazard: _____	Risk: _____	Person entering site visit information
Risk Control Measures: _____		Date of entry
		Site visit approved by Coordinator (initial and date)

Moorabool @ Tyarsford, M00091  
(Footbridge)



# Aquatic Invertebrate Data Sheet



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

Group Size:  
Date Sampled: 24/6/22

For further information refer to the Waterwatch Victoria Methods Manual

AQUATIC INVERTEBRATES NAME	Column 1	Column 2
	Bug scores	Abundance
<b>Very Sensitive Aquatic Invertebrates</b>		
Stonefly Nymph <i>perla</i>	8	
Mayfly Nymph	7	
Caddisfly Larvae <i>80 stick, 100 notalina, 100 cabin</i>	7	
<b>Sensitive Aquatic Invertebrates</b>		
Toe-biters/Dobsonflies/Alderflies (Megaloptera)	6	
Damselfly Nymph <i>Coenagrion &amp; lachid.</i>	6 x 30	
Dragonfly Nymph <i>not telephlebia</i>	6 x 1	
Freshwater Mussel	5	
Aquatic caterpillars (Lepidoptera)	5	
Freshwater Shrimp/prawn	5 x 40	
Freshwater Yabbie/Crayfish	5	
Water Mite	5	
Freshwater Slater	5 x 1	
<b>Tolerant Aquatic Invertebrates</b>		
Hydra	4	
Beetle Larvae	4	
True Bugs <i>robust x1, micronecta x200</i>	4	
(Backswimmer, Water Scorpion, Water Boatman, Lesser Water Strider, Water Strider/Treader) <i>x5</i>	4	<i>and creeping water bug x1</i>
Freshwater Sandhopper (Amphipod) <i>x5</i>	4	
Beetles (Dytiscid Beetles, Whirligig Beetles)	3	
Nematodes	3	
Leech	3	
Snails (freshwater) <i>physa acuta</i>	3	
Flatworm	3	
<b>Very Tolerant Aquatic Invertebrates</b>		
Mosquito Larvae	2	
Midge Larvae <i>x5</i>	2	
Fly Larvae	2	
Aquatic Earthworm	1	
Blood Worm <i>x5</i>	1	
<b>Totals</b>		

**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.

*crab. x1*

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

