

## Physical and Chemical Analysis Data Form

Waterwatch Melbourne Physical and Chemical Analysis

**Monitoring site details**

YGR 006 Pebblebank Pt.

Site code:

Site description:

**Name of monitoring group**

Persons monitoring: SuD, Anne P, EB, John SL, + Mally, Winston, Darcy

Date and time of monitoring: 8-1-2017 10am

**Please record your data below:**

Parameter	Reading	Comments	
Air Temperature	33 °C		
Water Temperature	26.8 °C		
Turbidity	LM 36 FTU /	NTU	
pH	LM 7 /	Unit	
Conductivity	330	µS / cm	
Dissolved Oxygen	La Motte 1.0 1.3 small / 3 (Visocot)	mg / L	77% sat 46% manual % Saturation
Phosphate <small>(If using Lamotte Smart2 Colorimeter multiply by 0.326 to calculate mg/L)</small>	La Motte. 0.07 x 0.326 = 0.023	mg / L	
Ammonium	Visocot. 0.0	mg / L	
Nitrate		mg / L	

**Observations and Notes:**

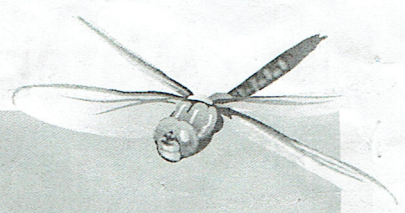
What has changed since last time you monitored? Heavy high water level after slow very heavy rainfall - flattened reeds

What stands out about the site today? Dragonflies, white-faced heron

Other observations:

\* Bad smells

La Motte DO readings not reliable. Use Visocot. test results.



## Physical and Chemical Analysis Data Form

### Waterway Information

#### Rate of flow:

- Very fast     Fast     Normal base flow     Slow     Trickle  
 None     Permanent     Temporary     Other

If 'Other', please specify:

#### Type of flow:

- Rising     Steady     Falling     Peak     Dry     Pools / Puddles     Other

If 'Other', please specify:

#### Waterway Appearance:

- Clear     Muddy     Smelly     Frothy     Scummy  
 Oily     Discoloured     Milky     Stained brown     Other

If 'Other', please specify:

lots of debris (veg) + rubbish

Waterway depth: 900 cm (0 to 3000cm)

Waterway width: \_\_\_\_\_ m (0 to 100m)

#### Weather:

- Sunny     Cloudy     Overcast     Showers     Rain  
 Hail     Windy     Foggy     Other

If 'Other', please specify:

#### Last rainfall:

- Raining now     Last 24hrs     Last 3 days     Last 7 days     More than a week ago

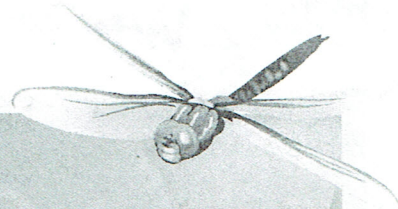
58 mm on Dec 31 2016.

#### Litter / Pollutants (record no.):

- |                          |                  |                                     |                           |
|--------------------------|------------------|-------------------------------------|---------------------------|
| <u>3</u> Cans            | <u>1</u> Paper   | ___ Clothing                        | ___ Oil (m <sup>2</sup> ) |
| ___ Food Packets         | <u>1</u> Plastic | ___ Polystyrene                     | ___ Car bodies            |
| <u>1</u> Waxed Cardboard | <u>2</u> Bottles | ___ Petrol/Diesel (m <sup>2</sup> ) | ___ Other (specify)       |

3 Pacific bl ducks.  
lots of dragonflies.

2 chestnut teal



## Physical and Chemical Analysis Data Form

Waterwatch Melbourne Physical and Chemical Analysis

**Monitoring site details**

Site code:

YGR 020 The Landing

Site description:

**Name of monitoring group**

Persons monitoring:

SD, EB, JS.

Date and time of monitoring:

10:30 am 8/1/2017.

**Please record your data below:**

Parameter	Reading	Comments
Air Temperature	31.8 °C	
Water Temperature	26.5 °C	
Turbidity	31 FTU NTU	
pH	6-7 Unit	
Conductivity	170 µS / cm	
Dissolved Oxygen	Viso. 5 [3.8 small (1.5 1g <sup>2</sup> ) mg / L	61% manual 50% small % Saturation La Motte
Phosphate <small>(If using Lamotte Smart2 Colorimeter multiply by 0.326 to calculate mg/L)</small>	0.0 mg / L	Problems dissolving flakes - La Motte DO. not reliable.
Ammonium	0.04 mg / L	
Nitrate	mg / L	

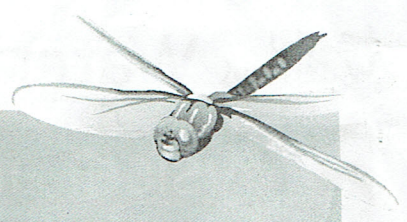
**Observations and Notes:**

What has changed since last time you monitored? Lots of leaf litter, some branches,

What stands out about the site today? Water poor colour, some floating garbage eg bottles.

Other observations:

La Motte DO ignore!



## Physical and Chemical Analysis Data Form

### Waterway Information

**Rate of flow:**

- Very fast     Fast     Normal base flow     Slow     Trickle  
 None     Permanent     Temporary     Other

If 'Other', please specify:

**Type of flow:**

- Rising     Steady     Falling     Peak     Dry     Pools / Puddles     Other

If 'Other', please specify:

**Waterway Appearance:**

- Clear     Muddy     Smelly     Frothy     Scummy  
 Oily     Discoloured     Milky     Stained brown     Other

If 'Other', please specify:

*Lots of debris*

Waterway depth: 850mm cm (0 to 3000cm)

Waterway width: \_\_\_\_\_ m (0 to 100m)

**Weather:**

- Sunny     Cloudy     Overcast     Showers     Rain  
 Hail     Windy     Foggy     Other

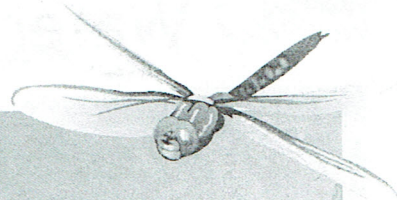
If 'Other', please specify:

**Last rainfall:**

- Raining now     Last 24hrs     Last 3 days     Last 7 days     More than a week ago

**Litter / Pollutants (record no.):**

- |                     |                  |                                     |                           |
|---------------------|------------------|-------------------------------------|---------------------------|
| ___ Cans            | ___ Paper        | ___ Clothing                        | ___ Oil (m <sup>2</sup> ) |
| ___ Food Packets    | ___ Plastic      | ___ Polystyrene                     | ___ Car bodies            |
| ___ Waxed Cardboard | <u>4</u> Bottles | ___ Petrol/Diesel (m <sup>2</sup> ) | ___ Other (specify)       |



## Physical and Chemical Analysis Data Form

Waterwatch Melbourne Physical and Chemical Analysis

**Monitoring site details**

Site code:

Site description:

**Name of monitoring group**

Persons monitoring:

Date and time of monitoring:

YGR 023 Heron Pt.

SD, EB, JS

11am 8/1/2017

**Please record your data below:**

Parameter	Reading	Comments
Air Temperature	36.1 °C	
Water Temperature	27.9 °C	
Turbidity	35 FTU NTU	
pH	7.2 Unit	
Conductivity	170 µS / cm	
Dissolved Oxygen	3.2 large 5.1 small mg / L	La Motte 67% (manual + small) % Saturation
Phosphate <small>(If using Lamotte Smart2 Colorimeter multiply by 0.326 to calculate mg/L)</small>	0.03 mg / L	
Ammonium	0.04 mg / L	
Nitrate	mg / L	

**Observations and Notes:**

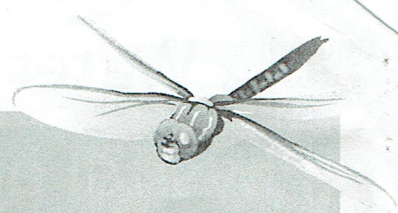
What has changed since last time you monitored?

What stands out about the site today?

swallows skimming, dragonflies

Other observations:

La Motte D.O. unreliable - don't use.



## Physical and Chemical Analysis Data Form

### Waterway Information

#### Rate of flow:

- Very fast     Fast     Normal base flow     Slow     Trickle  
 None     Permanent     Temporary     Other

If 'Other', please specify:

#### Type of flow:

- Rising     Steady     Falling     Peak     Dry     Pools / Puddles     Other

If 'Other', please specify:

#### Waterway Appearance:

- Clear     Muddy     Smelly     Frothy     Scummy  
 Oily     Discoloured     Milky     Stained brown     Other

If 'Other', please specify:

Waterway depth: 1400 cm (0 to 3000cm)

Waterway width: \_\_\_\_\_ m (0 to 100m)

#### Weather:

- Sunny     Cloudy     Overcast     Showers     Rain  
 Hail     Windy     Foggy     Other

If 'Other', please specify:

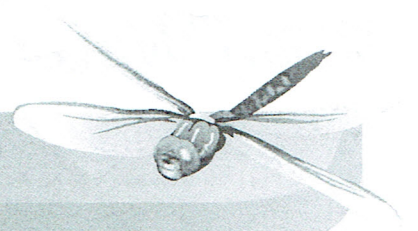
#### Last rainfall:

- Raining now     Last 24hrs     Last 3 days     Last 7 days     More than a week ago

#### Litter / Pollutants (record no.):

- |                     |                                             |                                     |                                                     |
|---------------------|---------------------------------------------|-------------------------------------|-----------------------------------------------------|
| ___ Cans            | ___ Paper                                   | ___ Clothing                        | ___ Oil (m <sup>2</sup> )                           |
| ___ Food Packets    | <input checked="" type="checkbox"/> Plastic | ___ Polystyrene                     | ___ Car bodies                                      |
| ___ Waxed Cardboard | ___ Bottles                                 | ___ Petrol/Diesel (m <sup>2</sup> ) | <input checked="" type="checkbox"/> Other (specify) |

*leaf debris, some garbage*



## Macro-invertebrates Data Form

### Monitoring Group Information

#### Monitoring site details

Site code: **YGR 006.**

Site description:

#### Name of monitoring group

Persons monitoring: **Anne Payne, SuD, EB, John Sh.**

Date and time of monitoring: **8-1-2017**      **visitors - Molly, Winston, Doray**

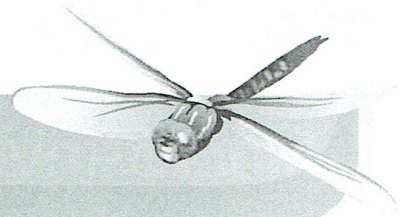
### Macro-invertebrates

#### Sample Type

Edge     Riffle

#### Please record your data below:

Common Name	Order	Bug Score	Abundance
<b>Very Sensitive Macro-invertebrates</b>			
Stonefly Nymph	Plecoptera	8	
Mayfly Nymph	Ephemeroptera	7	
Caddisfly Nymph	Trichoptera	7	
<b>Sensitive Macro-invertebrates</b>			
Toebiters/Dobsonflies	Megaloptera	6	
Damselfly Nymph	Odonata	6	
Dragonfly Nymph	Odonata	6	<b>2</b>
Freshwater Mussel	Class: Bivalvia	5	
Aquatic Caterpillars	Lepidoptera	5	
Freshwater Shrimp/Prawn	Decapoda	5	<b>6</b>
Freshwater Yabby/Crayfish	Decapoda	5	
Water Mite	Acarina	5	
Freshwater Slater	Isopoda	5	



## Macro-invertebrates Data Form

Common Name	Order	Bug Score	Abundance
<b>Tolerant Macro-invertebrates</b>			
Hydra	Hydrozoa	4	
Beetle Larvae	Coleoptera	4	1
True Bugs (Backswimmers, Water Boatman, Water Strider)	Hemiptera	4	2 boatmen 2 backswimmers
Side Swimmer/Scud	Amphipoda	4	
Aquatic Beetles (Diving Beetles, Whirligig Beetles)	Coleoptera	3	
Round Worms	Nematoda	3	
Leech	Hirudinea	3	
Freshwater Snails	Gastropoda	3	1
Flatworm	Turbellaria	3	
<b>Very Tolerant Macro-invertebrates</b>			
Mosquito Larvae	Diptera	2	
Biting Midge Larvae	Diptera	2	
Fly Larvae	Diptera	2	
Segmented Worm	Oligochaeta	1	
Non Biting Midge (Bloodworms)	Diptera	1	3
	<b>TOTALS</b>	<b>23</b>	<b>17</b>

Copepods

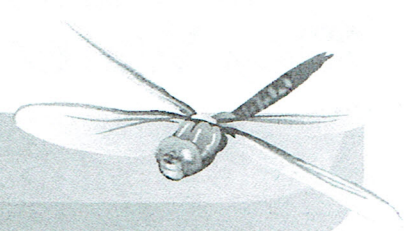
lots!

### Overall Bug Rating

Total abundance		Total bug score	
		0-35	35+
0-200	23	17	Good
200+			Very good

Poor





## Macro-invertebrates Data Form

### Monitoring Group Information

#### Monitoring site details

Site code: **YGR 023**

Site description:

#### Name of monitoring group

Persons monitoring: **Anne P, EB, John St, Su D.**

Date and time of monitoring: **8/1/2017.**

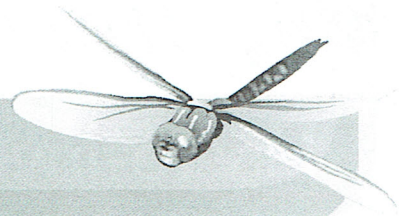
### Macro-invertebrates

#### Sample Type

Edge     Riffle

#### Please record your data below:

Common Name	Order	Bug Score	Abundance
<b>Very Sensitive Macro-invertebrates</b>			
Stonefly Nymph	Plecoptera	8	
Mayfly Nymph	Ephemeroptera	7	
Caddisfly Nymph	Trichoptera	7	
<b>Sensitive Macro-invertebrates</b>			
Toebiters/Dobsonflies	Megaloptera	6	
Damselfly Nymph	Odonata	6	
Dragonfly Nymph	Odonata	6	<b>1</b>
Freshwater Mussel	Class: Bivalvia	5	
Aquatic Caterpillars	Lepidoptera	5	
Freshwater Shrimp/Prawn	Decapoda	5	<b>3</b>
Freshwater Yabby/Crayfish	Decapoda	5	
Water Mite	Acarina	5	
Freshwater Slater	Isopoda	5	



## Macro-invertebrates Data Form

Common Name	Order	Bug Score	Abundance
<b>Tolerant Macro-invertebrates</b>			
Hydra	Hydrozoa	4	
Beetle Larvae	Coleoptera	4	
True Bugs (Backswimmers, Water Boatman, Water Strider)	Hemiptera	4	50 +
Side Swimmer/Scud	Amphipoda	4	
Aquatic Beetles (Diving Beetles, Whirligig Beetles)	Coleoptera	3	
Round Worms	Nematoda	3	
Leech	Hirudinea	3	
Freshwater Snails	Gastropoda	3	
Flatworm	Turbellaria	3	
<b>Very Tolerant Macro-invertebrates</b>			
Mosquito Larvae	Diptera	2	
Biting Midge Larvae	Diptera	2	
Fly Larvae	Diptera	2	
Segmented Worm	Oligochaeta	1	
Non Biting Midge (Bloodworms)	Diptera	1	
	<b>TOTALS</b>	<b>15</b>	<b>54 +</b>

### Overall Bug Rating

Total abundance		Total bug score	
		0-35	35+
0-200	15	Poor	Good
200+		Fair	Very good