

Physical and Chemical Analysis Data Form

Waterwatch Melbourne Physical and Chemical Analysis

Monitoring site details *Pobblebonk Point*

Site code: *YGR 006*

Site description:

Name of monitoring group *BLS WaterWatch*

Persons monitoring: *Su D, Elaine B, John, Stephanie S, Alfonsina, Susanku, Wira, Amber, Teresa (visitor)*

Date and time of monitoring: *6/10/19 9:45AM*

Please record your data below:

Parameter	Reading	Comments
Air Temperature	21 °C	
Water Temperature	15 °C	
Turbidity	27 NTU	
pH	6.2 Unit	
Conductivity	202 μS / cm	
Dissolved Oxygen	4.1 mg / L	% Saturation
Phosphate <small>(If using Lamotte Smart2 Colorimeter multiply by 0.326 to calculate mg/L)</small>	0.09 × 0.326 = 0.029 mg / L	
Ammonium	0.00 mg / L	
Nitrate	— mg / L	

Observations and Notes:

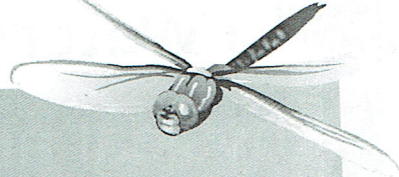
What has changed since last time you monitored? *Slashing of bank vegetation*

7 Pacific black ducks (adult) 1 Eurasian wot
13 Pacific black ducklings

What stands out about the site today?

Tradescantia has been slashed on verges. A lot of onion weed. Combunge just starting to re-shoot.

Other observations:



Physical and Chemical Analysis Data Form

Waterway Information

Rate of flow:

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

If 'Other', please specify:

Type of flow:

- Rising
- Steady
- Falling
- Peak
- Dry
- Pools / Puddles
- Other

If 'Other', please specify:

N/A

Waterway Appearance:

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

If 'Other', please specify:

Waterway depth: 1000 cm (0 to 3000cm)

Waterway width: _____ m (0 to 100m)

Weather:

- Sunny
- Hail
- Cloudy
- Windy
- Overcast
- Foggy
- Showers
- Other
- Rain

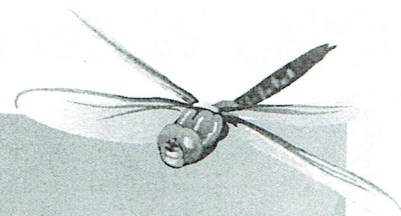
If 'Other', please specify:

Last rainfall:

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

Litter / Pollutants (record no.):

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> ___ Cans ___ Food Packets ___ Waxed Cardboard 1 Drinking wp | <ul style="list-style-type: none"> ___ Paper 5 Plastic wrap 5 plastic 5 Bottles | <ul style="list-style-type: none"> ___ Clothing 5 Polystyrene ___ Petrol/Diesel (m²) 1 roll of tape 1 tree guard |
| | | <ul style="list-style-type: none"> ___ Oil (m²) ___ Car bodies ___ Other (specify) |



Physical and Chemical Analysis Data Form

Waterwatch Melbourne Physical and Chemical Analysis

Monitoring site details *The Landing*

Site code: *YGR020*

Site description:

Name of monitoring group *BLS Waterwatch*

Persons monitoring: *Sr D. Elaine B, John Shertridge, Wira Yan, Atfencina, Amber H*

Date and time of monitoring: *6/10/19 10:40 AM* *Stephanie Stanford, Gesan Wan*
Visitor/Trainee, Teresa.

Please record your data below:

Parameter	Reading	Comments
Air Temperature	21 °C	
Water Temperature	16 °C	
Turbidity	13 NTU	
pH	6.9 Unit	
Conductivity	175 µS / cm	
Dissolved Oxygen	7.7 mg / L	% Saturation
Phosphate <small>(If using Lamotte Smart2 Colorimeter multiply by 0.326 to calculate mg/L)</small>	(0.05) mg / L <i>0.10 → test twice = 0.0326 same value</i>	
Ammonium	0.00 mg / L	
Nitrate	— mg / L	

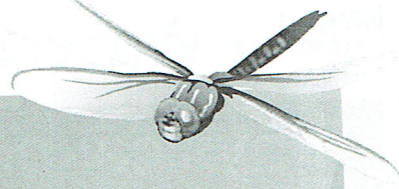
Observations and Notes:

What has changed since last time you monitored?

What stands out about the site today?

Other observations:

4 Pacific black ducks (adult)
1 erosion post



Physical and Chemical Analysis Data Form

Waterway Information

Rate of flow:

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

If 'Other', please specify:

Type of flow:

- Rising
- Steady
- Falling
- Peak
- Dry
- Pools / Puddles
- Other

If 'Other', please specify:

N/A

Waterway Appearance:

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

If 'Other', please specify:

Waterway depth: 650 cm (0 to 3000cm)

Waterway width: _____ m (0 to 100m)

Weather:

- Sunny
- Hail
- Cloudy
- Windy
- Overcast
- Foggy
- Showers
- Other
- Rain

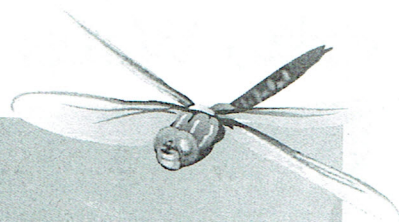
If 'Other', please specify:

Last rainfall:

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

Litter / Pollutants (record no.):

- ___ Cans
- ___ Food Packets
- ___ Waxed Cardboard
- ___ Paper
- 1 Plastic
- 1 Bottles
- ___ Clothing
- 1 Polystyrene
- ___ Petrol/Diesel (m²)
- ___ Oil (m²)
- ___ Car bodies
- ___ Other (specify)



Physical and Chemical Analysis Data Form

Waterwatch Melbourne Physical and Chemical Analysis

Monitoring site details

Site code: *Heron Point*
 Site description: *YGR023*

Name of monitoring group: *BIS Waterwatch*

Persons monitoring: *Su D, E. B, John Sh, Wira Yan, Albencina, Stephanie Stanford, Susan Wau, Amber Hu, Teresa*

Date and time of monitoring: *6/10/19 11:00 AM*

Please record your data below:

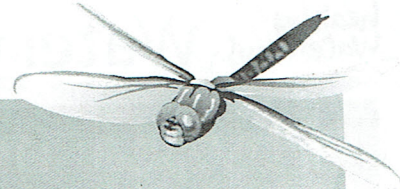
Parameter	Reading	Comments
Air Temperature	<i>18</i> °C	
Water Temperature	<i>16</i> °C	
Turbidity	14 <i>13</i> NTU	
pH	<i>7.0</i> Unit	
Conductivity	<i>170</i> µS / cm	
Dissolved Oxygen	<i>8.1</i> mg / L	% Saturation
Phosphate <small>(If using Lamotte Smart2 Colorimeter multiply by 0.326 to calculate mg/L)</small>	<i>0.00</i> <i>= 0.00</i> mg / L	
Ammonium	<i>0.00</i> mg / L	
Nitrate	<i>—</i> mg / L	

Observations and Notes:

What has changed since last time you monitored?
Poplars have new foliage

What stands out about the site today?

Other observations:
1 wood duck 1 cap
1 pacific black duck



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:

N/A

Waterway Appearance:

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

If 'Other', please specify:

Waterway depth: 1500+ cm (0 to 3000cm)

Waterway width: _____ m (0 to 100m)

Weather:

- Sunny Cloudy Overcast Showers Rain
 Hail Windy Foggy Other

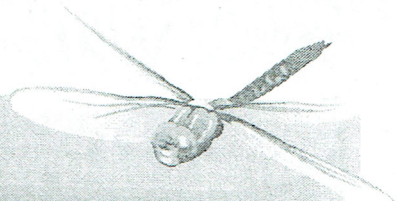
If 'Other', please specify:

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 ²) |
| ___ Food Packets | <u>2</u> Plastic | ___ Polystyrene | ___ Car bodies |
| ___ Waxed Cardboard | ___ Bottles | ___ Petrol/Diesel (m ²) | ___ Other (specify) |



Macro-invertebrates Data Form

Monitoring Group Information

Monitoring site details

Site code: YGR 006.

Site description:

Name of monitoring group

Persons monitoring: John Shartridge & Su Dempsey

Date and time of monitoring: 6/10/2019 10am

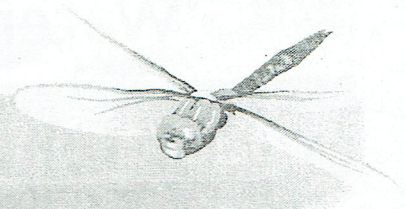
Macro-invertebrates

Sample Type

Edge Riffle

Please record your data below:

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

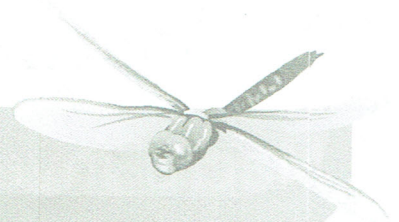


Macro-invertebrates Data Form

Common Name	Order	Bug Score	Abundance
Tolerant Macro-invertebrates			
Hydra	Hydrozoa	4	
Beetle Larvae	Coleoptera	4	
True Bugs (Backswimmers, Water Boatman, Water Strider)	Hemiptera	4	6 boatman x 1 backswimmers x 2 water strider x 3
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	
Very Tolerant Macro-invertebrates			
Mosquito Larvae	Diptera	2	
Biting Midge Larvae	Diptera	2	
Fly Larvae	Diptera	2	
Segmented Worm	Oligochaeta	1	
Non Biting Midge (Bloodworms)	Diptera	1	2
TOTALS		20	11

Overall Bug Rating

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



Macro-invertebrates Data Form

Monitoring Group Information

Monitoring site details

Site code: **YGR 023** **Duck & Heron Pt.**
 Site description:

Name of monitoring group

Persons monitoring: **John Shortridge & Su Dempsey**
 Date and time of monitoring: **6.10.2019** **10.45am**

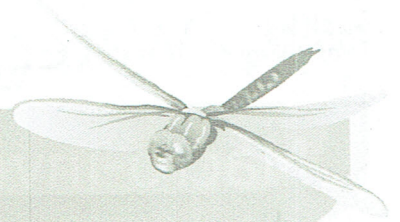
Macro-invertebrates

Sample Type

Edge Riffle

Please record your data below:

Common Name	Order	Bug Score	Abundance
Very Sensitive Macro-invertebrates			
Stonefly Nymph	Plecoptera	8	
Mayfly Nymph	Ephemeroptera	7	
Caddisfly Nymph	Trichoptera	7	3 <i>Ecnomidae</i> <i>Leptoceridae</i> X2
Sensitive Macro-invertebrates			
Toebiters/Dobsonflies	Megaloptera	6	
Damselfly Nymph	Odonata	6	
Dragonfly Nymph	Odonata	6	
Freshwater Mussel	Class: Bivalvia	5	
Aquatic Caterpillars	Lepidoptera	5	
Freshwater Shrimp/Prawn	Decapoda	5	9
Freshwater Yabby/Crayfish	Decapoda	5	
Water Mite	Acarina	5	
Freshwater Slater	Isopoda	5	



Macro-invertebrates Data Form

Common Name	Order	Bug Score	Abundance
Tolerant Macro-invertebrates			
Hydra	Hydrozoa	4	
Beetle Larvae	Coleoptera	4	
True Bugs (Backswimmers, Water Boatman, Water Strider)	Hemiptera	4	boatman - microwater 20. backswimmers x3
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	
Very Tolerant Macro-invertebrates			
Mosquito Larvae	Diptera	2	
Biting Midge Larvae	Diptera	2	
Fly Larvae	Diptera	2	
Segmented Worm	Oligochaeta	1	
Non Biting Midge (Bloodworms)	Diptera	1	4
	TOTALS	17	39

Overall Bug Rating

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