

## water quality testing results sheet

|                               |          |
|-------------------------------|----------|
| date                          |          |
| pond name/s                   |          |
| weather                       |          |
| storm event in last 24 hours? | yes / no |
| name of tester/s              |          |

### information to remember

- ★ Always wear gloves when conducting water quality tests
- ★ Work with your designated partner or group
- ★ Ensure equipment is turned off, washed with distilled water, and dried with a paper towel at the completion of each test
- ★ Place equipment back at the appropriate station at the completion of each test
- ★ Place all rubbish, used testing equipment and gloves in the rubbish bag provided
- ★ Please enter your results onto the Streamwatch website at [www.streamwatch.org.au](http://www.streamwatch.org.au)

Some of the information here is reproduced from The Streamwatch Manual (3<sup>rd</sup> edition).

# temperature results

pond name:

|                          | Group results | Class average |
|--------------------------|---------------|---------------|
| temperature (°C)         |               |               |
| rating (see table below) |               |               |

pond name:

|                          | Group results | Class average |
|--------------------------|---------------|---------------|
| temperature (°C)         |               |               |
| rating (see table below) |               |               |

pond name:

|                          | Group results | Class average |
|--------------------------|---------------|---------------|
| temperature (°C)         |               |               |
| rating (see table below) |               |               |

# ratings

| temperature (°C) | rating | description  |
|------------------|--------|--|
| > 20             | 1      | much plant life<br>many fish diseases<br>common fish include bass, carp, catfish   |
| 13 - 20          | 2      | some plant life<br>some fish diseases<br>common fish include salmon, trout<br>common insects include stonefly nymphs, mayfly nymphs, water beetles, caddisfly larvae |
| < 13             | 3      | Little plant life<br>Common fish include trout<br>Common insects include stonefly nymphs, mayfly nymphs  |

# pH results

pond name:

|                          | Group results | Class average |
|--------------------------|---------------|---------------|
| pH                       |               |               |
| rating (see table below) |               |               |

pond name:

|                          | Group results | Class average |
|--------------------------|---------------|---------------|
| pH                       |               |               |
| rating (see table below) |               |               |

pond name:

|                          | Group results | Class average |
|--------------------------|---------------|---------------|
| pH                       |               |               |
| rating (see table below) |               |               |

# ratings and ideal ranges

| pH range  | rating   | description  |
|-----------|----------|--|
| 0 – 6.4   | acidic   | fish and other organisms suffer from skin irritations, tumours, ulcers and impaired gill functioning |
| 6.5 – 9.0 | normal   | good for fresh water aquatic ecosystems  |
| 9.1 – 14  | alkaline | usually occurs during peak periods of photosynthesis   |

| pH range  | optimal ranges for pH value |
|-----------|-----------------------------|
| 4.5 – 9   | for agricultural water uses |
| 6.5 – 8.5 | for drinking water supply   |
| 5.0 – 9.0 | for recreational waters     |

# electrical conductivity results

**pond name:**

|  | Group results | Class average |
|--|---------------|---------------|
| electrical conductivity ( $\mu\text{S/cm}$ ) |               |               |
| rating (see table below)                     |               |               |

**pond name:**

|  | Group results | Class average |
|--|---------------|---------------|
| electrical conductivity ( $\mu\text{S/cm}$ ) |               |               |
| rating (see table below)                     |               |               |

**pond name:**

|  | Group results | Class average |
|--|---------------|---------------|
| electrical conductivity ( $\mu\text{S/cm}$ ) |               |               |
| rating (see table below)                     |               |               |

## ideal ranges

| water type      | electrical conductivity ( $\mu\text{S/cm}$ ) |
|-----------------|--|
| distilled water | 0  |
| tap water       | 50   |
| creek water     | 100 - 300                                    |
| estuarine       | 10 000 - 35 000                              |
| sea water       | 54 600                                       |

# turbidity results

pond name:

|                          | Group results | Class average |
|--------------------------|---------------|---------------|
| turbidity (NTU)          |               |               |
| rating (see table below) |               |               |

pond name:

|                          | Group results | Class average |
|--------------------------|---------------|---------------|
| turbidity (NTU)          |               |               |
| rating (see table below) |               |               |

pond name:

|                          | Group results | Class average |
|--------------------------|---------------|---------------|
| turbidity (NTU)          |               |               |
| rating (see table below) |               |               |

# ratings

| turbidity (NTU) | rating | description                  |
|-----------------|--------|------------------------------|
| 0 - 10          | 4      | excellent – very clear water |
| 11 - 40         | 3      | good – clear water           |
| 41 - 150        | 2      | fair                         |
| > 150           | 1      | poor – murky water           |