Measuring electrical conductivity 1

UNIT: Micro-Siemens per centimetre (μs/cm)

EQUIPMENT: Electrical Conductivity (EC) meter which measures electricity flow between two electrodes

1. Turn **meter on** and lift the lid from the sensor.

2. **Calibrate** your meter each time. Use the 1.41 solution to do this (this is a solution of 1413 μs/cm). Pour the solution onto the sensor making sure you completely cover it and there are no bubbles.

3. **Hold** the **CAL** button. When the 😊 icon stops blinking your calibration value will display. It should read 1413 (+/- 5). If it does not, rinse thoroughly with solution and calibrate again.

4. **Rinse** the sensor with sample water after calibration.

5. Use the pipette or pour **sample solution** on the sensor (cover it) and press the **MEAS** button.

6. The 😊 icon will flash until the result is stable then it will stop flashing and your result will appear.

7. **Record** your result on the *water quality data sheet* or enter directly into the River Detectives website.

8. Compare your result to the rating chart for your region.

9. After measurement wash your sensor with tap water and **turn off**.

Notes:
- 'Or' means the salinity level is too high and 'Ur' the level is too low for the EC meter. Dilute solution or contact your coordinator.
- Do not wipe or push the sensor strongly. It may damage the sensor.