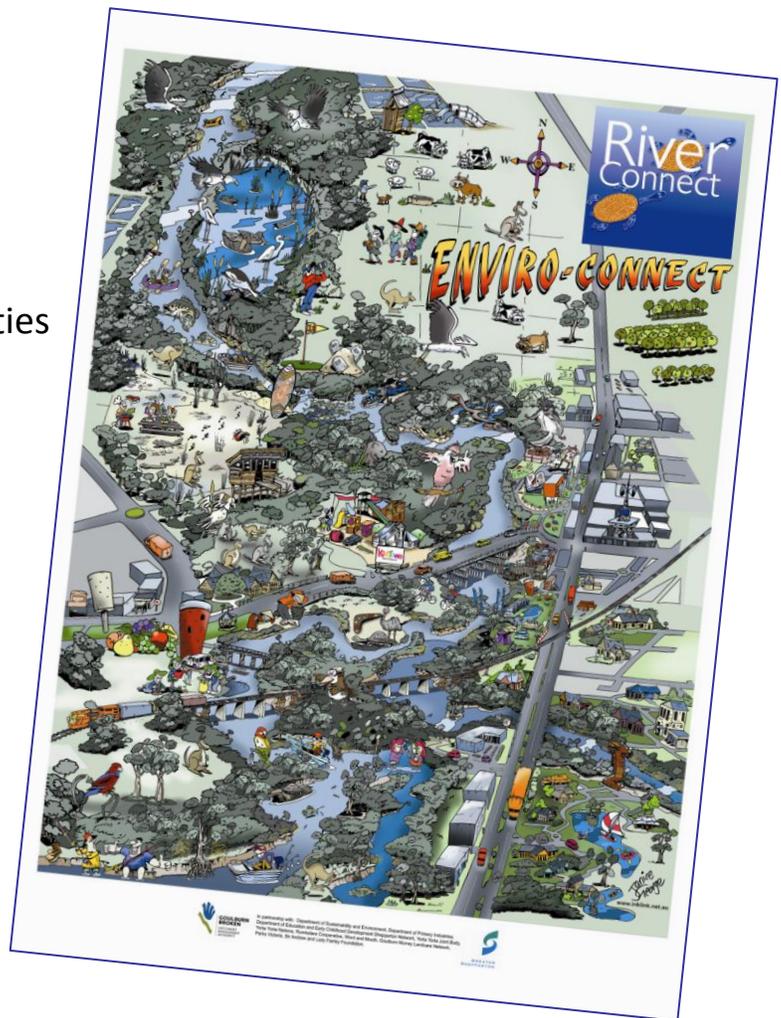




# Adopt - a - Reach *Curriculum resource*

## *What's out there?*

- Suitable for Primary and Secondary levels
- With suggested learning activities
- Appropriate for a range of Standards across different Domains.



In partnership with: Department of Sustainability and Environment, Department of Primary Industries, Department of Education and Early Childhood Development Shepparton Network, Yorta Yorta Joint Body, Yorta Yorta Nations, Rumbalara Cooperative, Word and Mouth, Goulburn Murray Landcare Network, Parks Victoria, and Sir Andrew and Lady Fairley



**“As members of the Shepparton Mooroopna community we look forward to working together so this community can understand and appreciate the importance of our river environment.**

**It is our hope that this community will feel really connected to the river and to each other”.**

**Adopt-a-reach Launch affirmation,  
5 June 2008.**

## *Student activities*

### **1. Graphic representation of places. (Humanities/Maths)**

- a. Comparison of the “What’s out there?” graphic with different representations of the same or similar area such as
  - i. a map
  - ii. aerial photo
  - iii. oblique photo.
  
- b. Concepts to explore include
  - i. perspective, scale and proportion  
e.g. Trace the shape of the Goulburn River on each graphic and compare.
  - ii. selection of features - what is and isn’t included? why?
  - iii. mapping tools B.O.L.T.S. (Border, Orientation, Legend, Title, Scale)  
e.g. What direction are different features from each other and/or from the school?  
Investigate the different scales of different features, and/or of distances between features?

### **2. The nature of Environments. (Humanities/Science)**

- a. Identifying the components and features of natural and human environments:
  - i. The difference between living (biotic) and non living (abiotic) features of natural environments
  - ii. Features of the natural environment components (atmosphere, lithosphere, biosphere and hydrosphere)
  - iii. Features of the human environment components (population, settlements, technology, infrastructure, cultural heritage).
  
- b. Investigate the nature of the river flood plain ecosystem.
  
- c. Identify examples of how environments change over time:
  - i. How nature changes environments
  - ii. How humans change environments
  - iii. Examples of short term and long term changes to environments
  - iv. Examples of minor and major environmental changes.

### **3. Grid references. (Humanities/Maths)**

To teach skills of

- a. finding features from a given grid reference
- b. calculating a grid reference for a given feature.

(See attached *Where is it?* example suitable for primary students)

### **4. Development of vocabulary and written and oral expression (English, LOTE)**

Possible themes include:

- a. Colours
- b. Animal names and numbers
- c. Forms of transport
- d. Where is?
- e. What are people doing?
- f. Aspects about the environment. (See activity 2 above)

### **5. Artistic expression (Art/Technology)**

- a. Design/art elements and principles – contrasting colours on poster, use of repetition, symbols, how objects and locations are simplified but important aspects remain.
- b. Lesson on “perspective” – poster not in perspective in terms of true aerial view. Which perspective has the artist used? Students could create their own treasure maps using the same perspective as poster.
- c. Students could pick an animal on the poster and make lino cuts of their choice.
- d. Students could select a section of the graphic for reproduction using grid enlargement.
- e. Students could choose a location on the graphic and use an art technique to create a piece of artwork: sculpture, drawing, charcoal, painting, dot drawing etc. (See activity 6)

## 6. Individual and/or group research.

(Any Domain but especially Humanities/Science/Art/English)

Students could be given

- a. a theme to investigate or
- b. a site or grid reference to research - what the location is used for, its historical, economic, environmental, cultural, recreational, and/or social importance.

Topics could be allocated by student choice or lucky dip.

### Six figure grid reference version (Secondary Schools)

| Themes  | Sites  | Locations        |
|---|--|------------------|
| 1. Local indigenous history and culture   | a. The flats   | 153537           |
|   | b. The sand hills  | 136566           |
|   | c. Scar trees  | 124512           |
|   | d. Rumbalara   | 125515           |
|   | e. Kidstown (Daish's Paddock)  | 154547           |
|   | f. Local Totem species - Long Necked Turtle                                    | 145514 or 155535 |
| 2. Local European history and culture   | a. Shepparton's historical site (McGuire's Punt old wharf)                     | 174547           |
|   | b. Chinaman's Gardens  | 140537           |
|   | c. Historical irrigation pump site   | 174562           |
|   | d. Shepparton cemetery   | 146571           |
|   | e. SPC Ardmona cannery   | 123532           |
|   | f. Old Mooroopna hospital  | 138541           |
| 3. Wetlands<br>- What are they?<br>- Their role in the environment.<br>- Human impact on wetlands<br>- Management of wetlands | a. Gemmills Swamp  | 130560           |
|   | b. Reedy Swamp   | 130590           |
| 4. Local flora and fauna  | a. Range of many plants, animals, birds, insects as illustrate                 | 125594           |
|   | b. In particular<br>- White Breasted Sea Eagle<br>- Endangered Squirrel Glider | 175565           |

| Themes cont.                                  | Sites cont.  | Locations cont.                      |
|---|--|--------------------------------------|
| 5. Environmental Management                   | a. Shepparton Regional Park and Lower Goulburn National Park                                 | Boundary approx 110575 to 140579     |
|   | b. Fish ladder   | 144565                               |
|   | c. Water quality monitoring  | 160519                               |
|   | d. Revegetation  | 128526                               |
|   | e. Waste Water Treatment Plant   | 150607                               |
| 6. Recreation, tourist and leisure activities | a. Kidstown  | 154547                               |
|   | b. Fishing   | 152568                               |
|   | c. Princess Park   | 172559                               |
|   | d. Bird observing  | 140579 & 135555                      |
|   | e. Bike riding   | 163542                               |
|   | f. Art Gallery   | 178560                               |
|   | g. Library   | 175558                               |
|   | h. Aquamoves   | 173542                               |
|   | i. Victoria Park Lake  | 175541                               |
|   | j. Mooving Art cows  | 178553                               |
|   | k. Shepparton Golf Course  | 140571                               |
| 7. Water use                                  | a. Urban<br>- Water Treatment Plant<br>- Waste Water Treatment Plant                         | 175544<br>150607                     |
|   | b. Agriculture<br>- Irrigation (historic site)<br>- Orchards<br>- Dairy farming<br>- Grazing | 174562<br>190580<br>158600<br>150598 |
|   | c. Manufacturing<br>- SPC Ardmona  | 123532                               |
|   | d. Recreation<br>- Fishing,<br>- Canoeing  | 152568<br>119579                     |

## Melways grid version. (Primary Schools)

| Themes  | Sites  | Locations               |
|---|--|-------------------------|
| 1. Local indigenous history and culture   | a. The flats   | E8                      |
|   | b. The sand hills  | C5                      |
|   | c. Scar trees  | B10                     |
|   | d. Rumbalara   | B10                     |
|   | e. Kidstown (Daish's Paddock)  | E7                      |
|   | f. Local Totem species - Long Necked Turtle                                    | D10 or E8               |
| 2. Local European history and culture   | a. Shepparton's historical site (McGuire's Punt old wharf)                     | G7                      |
|   | b. Chinaman's Gardens  | C8                      |
|   | c. Historical irrigation pump site   | G5                      |
|   | d. Shepparton cemetery   | D4                      |
|   | e. SPC Ardmona cannery   | B9                      |
|   | f. Old Mooroopna hospital  | C7                      |
| 3. Wetlands<br>- What are they?<br>- Their role in the environment.<br>- Human impact on wetlands<br>- Management of wetlands | a. Gemmills Swamp  | B & C 5 & 6             |
|   | b. Reedy Swamp   | B & C 2 & 3             |
| 4. Local flora and fauna  | a. Range of many plants, animals, birds, insects as illustrate                 | B2 & C1                 |
|   | b. In particular<br>- White Breasted Sea Eagle<br>- Endangered Squirrel Glider | G5                      |
| 5. Environmental Management   | a. Shepparton Regional Park and Lower Goulburn National Park                   | Boundary approx B4 & C4 |
|   | b. Fish ladder   | D5                      |
|   | c. Water quality monitoring  | F10                     |
|   | d. Revegetation  | B9                      |
|   | e. Waste Water Treatment Plant   | E1 & D1                 |

| Themes cont.                                  | Sites cont.   | Locations cont.      |
|---|---|----------------------|
| 6. Recreation, tourist and leisure activities | a. Kidstown   | E7                   |
|   | b. Fishing  | E5 & D11             |
|   | c. Princess Park  | G6                   |
|   | d. Bird observing   | C6                   |
|   | e. Bike riding  | F7                   |
|   | f. Art Gallery  | G6                   |
|   | g. Library  | G6                   |
|   | h. Aquamoves  | G7                   |
|   | i. Victoria Park Lake   | G7                   |
|   | j. Mooving Art cows   | G6                   |
|   | k. Shepparton Golf Course   | D4                   |
| 7. Water use                                  | a. Urban <ul style="list-style-type: none"> <li>- Water Treatment Plant</li> <li>- Waste Water Treatment Plant</li> </ul>                                     | G7<br>D1 & E1        |
|   | b. Agriculture <ul style="list-style-type: none"> <li>- Irrigation (historic site)</li> <li>- Orchards</li> <li>- Dairy farming</li> <li>- Grazing</li> </ul> | G5<br>I4<br>E1<br>E2 |
|   | c. Manufacturing <ul style="list-style-type: none"> <li>- SPC Ardmona</li> </ul>  | B8                   |
|   | d. Recreation <ul style="list-style-type: none"> <li>- Fishing,</li> <li>- Canoeing</li> </ul>  | E5 & D11<br>A4       |

# Where is it ?????

Task:

- Find the following 12 RiverConnect features on the RiverConnect cartoon poster.
- Show us you have found the features by writing the grid reference in the last column.
- The first one has been done for you.

| Picture  | What is it?  | Where is it? |
|--|--|--------------|
| 1.    | River Red Gum  | C11          |
| 2.   | Bird Hide  |              |
| 3.  | The confluence of the Goulburn and Broken Rivers         |              |
| 4.  | A Squirrel Glider<br>and<br>the historic Irrigation site |              |
| 5.  | Fish Ladder  |              |

|  |   |  |
|--|---|--|
| <p>6.</p>     | <p>The Flats: An important aboriginal cultural site</p> |  |
| <p>7.</p>     | <p>Kangaroos</p>  |  |
| <p>8.</p>     | <p>Mooroopna deep water hole</p>                        |  |
| <p>9.</p>    | <p>The historic Old Punt site.</p>                      |  |
| <p>10.</p>  | <p>Long Necked Turtle</p>                               |  |
| <p>11</p>   | <p>White Breasted Sea Eagle</p>                         |  |
| <p>12.</p>  | <p>Historic aboriginal Scar Trees</p>                   |  |