

# Sale College Year 7 Geography



## Water in the world

### Fieldwork Booklet

Name:

Class:

## **Inquiry Question: How do human interventions at Glenmaggie Weir and Heyfield Wetlands help manage water use in the Macalister Irrigation District?**

Year Seven Fieldwork Trip – Tuesday 10 June 2025			
	<b>Group A</b> 7.1, 7.3, 7.5 COS, KPA, STU, COT, MES, FTA	<b>Group B</b> 7.2, 7.4, 7.6 DOL, TST, NOT, THJ, SDA, SPR	
9:00	Assemble Students in Year 7 Courtyard Plans and expectations for the day (STU)		
9:30 (ideally sooner)	Depart Sale College, Guthridge Campus		
<b>Rotation of two activities</b> Group leaders to ensure students know when and where to meet,	<b>10:00am - 12:00pm</b> <b>Heyfield Wetlands</b> *eat recess on arrival*  Presentation from SRW and Heyfield Wetlands staff, then self-directed walk and fieldwork tasks	<b>10:00am – 12:00pm</b> <b>Glenmaggie Weir</b> *eat recess on arrival*  Guided tour with Southern Rural Water staff member and completion of fieldwork activities	
	Travel to Glenmaggie Weir		Travel to Heyfield Wetlands
	<b>12:30 – 2:30pm</b> <b>Glenmaggie Weir</b> *eat lunch on arrival*  Guided tour with Southern Rural Water staff member and completion of fieldwork activities	<b>12:30 – 2:30pm</b> <b>Heyfield Wetlands</b> *eat lunch on arrival*  Presentation from SRW and Heyfield Wetlands staff, then self-directed walk and fieldwork tasks	
	Travel back to Sale College Town based students can leave upon arrival Others to wait on basketball courts for buses		
2:30 – 3:00			

## Location 1: \_\_\_\_\_



Use **your own observations** and our **guest speaker's expertise** to:

💡 *Observations* are things that you can see with your own eyes.

1) **Identify** human interventions at this location:

💡 *Human interventions* are actions taken by humans to alter a situation, often to improve it or address a problem, for example farming, or using technology.


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2) For the weir wall, **describe** in detail what infrastructure there is:

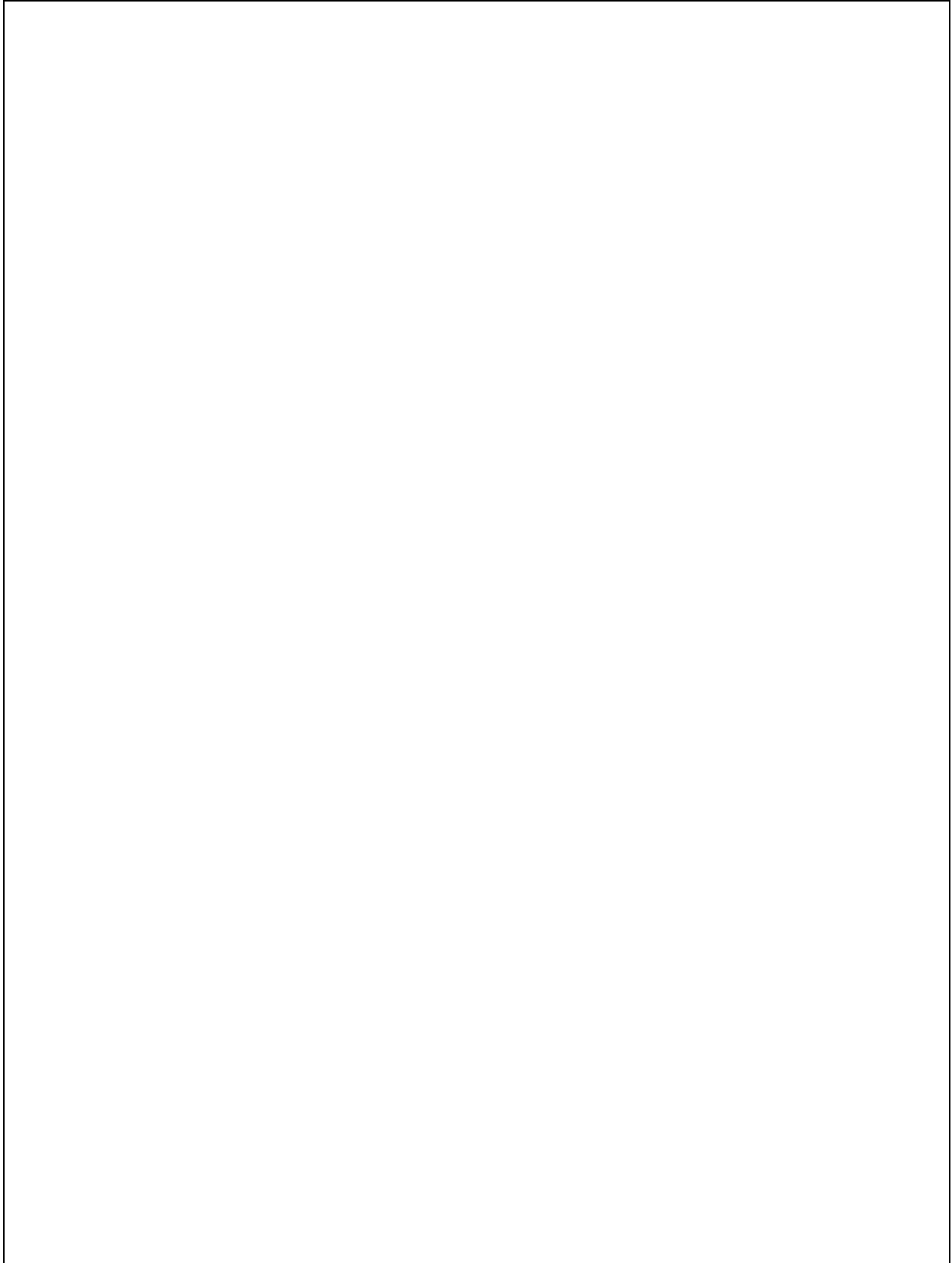
💡 *Infrastructure* is the term used to describe the built facilities which support modern human life, for example: roads, housing, pathways, or buildings.

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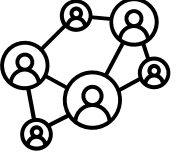
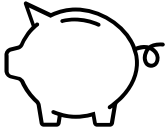

3) Complete a field sketch with annotations to assist your **description**.


 *Annotations* means to make a note to explain or comment on a diagram.

Consider carefully what perspective you draw your sketch from – What do you want to capture?



4) Using the table, **explain** the benefits and challenges of the human interventions at Glenmaggie.

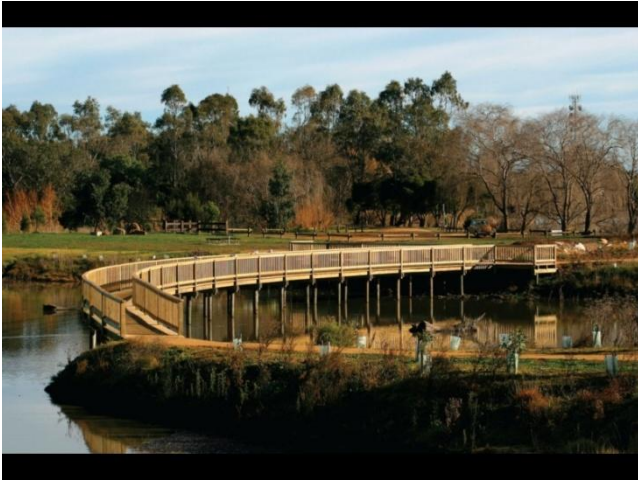
	Positive Impacts for the region from Lake Glenmaggie	Challenges for the region from Lake Glenmaggie
Social 		
Economic 		
Environmental 		

 **Social Impacts:** means the effects of human activities and developments on people and communities; it includes people's way of life, culture, community, political systems, health, well-being, and property rights.

**Economic Impacts:** means the changes in a local or regional economy resulting from a specific event, policy, or activity. It's essentially about the financial consequences of something, whether it's the arrival of a new business, the implementation of a new policy, or even a large event like a sporting competition.


**Environmental Impacts:** means the changes that human activities have on the natural and built environment. This includes effects on ecosystems, biodiversity, natural resources, and the physical environment.

## Location 2: \_\_\_\_\_




### Part 1: Presentations from Southern Rural Water and Heyfield Wetlands Volunteers

1) **Identify** human interventions at Heyfield Wetlands.

 *Human interventions are actions taken by humans to alter a situation, often to improve it or address a problem, for example farming, or using technology.*

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2) **Describe** the interconnection of Heyfield Wetlands to Glenmaggie Weir and the Macalister Irrigation District in general.

 *Interconnection is the ways people and geography are connected to each other through environmental processes and human activity.*

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## Part 2: Fieldwork walk around Heyfield Wetlands Site

3) As you walk around the wetlands you will complete a **Human Impact Analysis** for Heyfield Wetlands:

- A score of 1 means that this factor is barely seen and is not impacting this environment.
- A score of 5 means that this factor is very evident and has a large impact on this environment.

 **Human Impact** is the ways humans impact the physical environment, like pollution, burning fossil fuels, deforestation, and more.









### Human Impact Index Chart

Site					
Date					
Time					
Factor	Very high 5	High 4	Medium 3	Low 2	Very low 1
Litter					
Paths, roads, tracks					
Pollution – Air, Water, Soil					
Domestic animals – dogs, livestock					
Buildings/ structures/ fences					
Altered drainage, sluice gates, drains, dam					
Other human structures					
<b>Subtotals</b>					
Total human impact score	<b>/ 35</b>				
Comments/ observations:					

## Flora and Fauna Bingo:

Make a tally of the number of each species you see on your walk-through Heyfield Wetlands.

In your wildcard spots, you can add any other species of plants or animals that you see!

<p>Australian White Ibis <i>Threskiornis molucca</i></p>	<p>Crimson Rosella <i>Platycercus elegans</i></p>	<p>Eastern Yellow Robin <i>Eopsaltria australis</i></p>	<p>Blackwood wattle <i>Acacia melanoxylon</i></p>	<p><b>WILDCARD</b></p> <p>Common Name:</p> <p>Scientific Name:</p> <p>Drawing:</p>
				
<p>TALLY</p>	<p>TALLY</p>	<p>TALLY</p>	<p>TALLY</p>	<p>TALLY</p>
<p>Galah <i>Eolophus roseicapillus</i></p>	<p>Great Egret <i>Ardea modesta</i></p>	<p>Latham's Snipe <i>Gallinago hardwickii</i></p>	<p>Silver Banksia <i>Banksia marginata</i></p>	<p><b>WILDCARD</b></p> <p>Common Name:</p> <p>Scientific Name:</p> <p>Drawing:</p>
				
<p>TALLY</p>	<p>TALLY</p>	<p>TALLY</p>	<p>TALLY</p>	<p>TALLY</p>

## Reflection

1. What do you think about the balance of water use for agriculture and water use for environmental conservation? Has today changed your thinking?



Post-fieldwork reflections...

2. What could be changed at Glenmaggie Weir and/or Heyfield Wetlands?

Post-fieldwork reflections...

### **WHAT'S NEXT? Your Fieldwork Report!**

In your next Humanities lesson, you teacher will give you information about how this data will be collected, analysed and presented in your fieldwork reports. This will form the basis of your CAT for Geography this term. It will include:

- 1) Introduction
- 2) Present the data you collected:
  - Insert annotated photographs
  - Scan in your sketch
  - Graphically represent your Human Impact Index and Flora and Fauna bingo
- 3) Conclusion – answer the questions you created **with reference to the data in Part 2.**

Extension: you may conduct secondary research to add to the data you collected and to assist with your conclusion.