**2023**

**Year 12 Earth and Environmental Science – Unit 3**

**Task 5: Rehabilitation Investigation**

**Assessment Type: Investigation**

**Duration: 6 lessons**

**Assessment weighting: 6%**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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*I acknowledge that all the information contained in this task is my own work and not taken from other sources. If other sources have been used they have been acknowledged in my references.*

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(Student Signature)

*Please see SEQTA for teacher feedback and comments.*

**Task:** To plan and investigate the impact of environmental rehabilitation in native, local wetlands.

**Part A:** Research:

Rehabilitation

The successful rehabilitation of the environment is a legislated guideline which must be followed by mine site operators. Use appropriate resources to research the rehabilitation processes that occurs on mining resource sites, either ongoing or at the end of a mine’s life. Ensure that you include information on the following:

1. Identify and explain the main legislative guidelines that surround mining rehabilitation.
2. Explain the steps of the mining rehabilitation process
3. Identify and explain two mining rehabilitation techniques.

Mary Carroll Park

Rehabilitation efforts don’t only take part on mine sites. Local governments are also responsible for rehabilitating and restoring local bushland or wetland to increase the local wildlife biodiversity or return areas to their original function.

Mary Carroll Park is a wetland in Gosnells that has been undergoing the rehabilitation process over the last few years.

Researching the local history of the wetland and any information provided to you on the excursion, provide information about the following:

1. What is the history of the Wetland? *(how was it founded? What was it before?)*
2. What is the land use history?
3. What development has been done?
4. What rehabilitation efforts have been done?

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**PART B:** Conducting and Analysing

During the excursion to Mary Carroll Park, various wetland rehabilitation techniques and information was provided.

Write and explain what rehabilitation was conducted on the excursion. Include information on the following.

1. Where did the mulch come from and what was the purpose of spreading it onto the bushland area?
2. What was the purpose of creating the habitat log island?
3. What is botulism and how can it impact the wildlife on Mary Carroll Park?
4. Why is it important for the sedges to be planted by the road drain near May St?
5. Different species of sedge plants are used when planting at the wetland. Identify what species were planted and why a variety of sedges are used.
6. Why it is important for the sedges to be planted in autumn, or spring, instead of the heat of summer or cool of winter.

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