

Wetlands Environmental Education Centre



Year 12

Geography – Ecosystems at Risk

Inter-tidal Wetlands, Kooragang Island

Geography outcomes

Geography, HSC Course – Ecosystems at Risk (H1, H2, H5, H6, H10, H12)

Content

Salt marsh and mangrove ecosystems, interactions, distribution and abundance, and management issues at this rehabilitated site

Program Description

Students will investigate an intertidal wetland environment and calculate some of the factors which affect plant and animal life, identify some aspects of change, and analyse and summarise those aspects of this environment which have been affected by people. Management of this environment and the various stakeholders involved will be examined.

Site introduction including history, current use and management Fieldwork including:

- Biophysical factors: water and air temperature, humidity, wind speed and direction water depth, pH, turbidity.
- Distribution and abundance of pond animals and plants: Fixed transect , Quadrats
- Threats and management of vegetation
- Management Issues are investigated throughout the day
- Issues relating to climate change and threats to this environment

This program is usually delivered over 4hrs.

The basic program will be changed to suit larger groups or weather conditions.

Location

Ash Island, Pacific Hwy, Hexham, Newcastle

Site Description

The Kooragang Wetland Rehabilitation Project (KWRP) is located on Ash Island next to the Hunter River and a large urban area (Newcastle) in New South Wales. It is one of the largest active coastal rehabilitation projects in Australia. The wetlands feature expanses of mangrove and saltmarsh, and in non-tidal areas, riparian woodlands, remnants of lowland floodplain rainforest and ephemeral, freshwater wetlands.

Excursion information

What to bring: Printed student workbooks, clipboard and pencils, recess and lunch, refillable water bottle, hat, sunscreen, comfortable, covered walking shoes plus any special requirements of the group. (Wet weather gear when necessary). Non-aerosol insect repellent is advisable.

Transport is required throughout the day at this excursion.

Wetlands EEC is a NSW Department school and staff are trained DoE teachers specialising in Environmental Education.

Wetlands EEC teachers rely on the participation of visiting teachers to meet recommended supervision levels. Visiting teachers are ultimately responsible for behaviour of students, students with existing medical conditions or special needs.