

Case Studies

Farm Integrated Waste Management Urrbrae Agricultural High School

Senior Years

Partners: Flinders University
SARDI Aquatic Research

Farm wastes from the school's piggery after treatment are used in an aquaculture system. The project aims to treat wastes so

- Pathogenic coliforms are killed
- Solid wastes are used in a compost system
- Liquid wastes provide nutrients for algal growth and food for fish
- Recycled water is used in piggery

The project is part of broader environmental programs in the school, including:

- Water management and recycling
- Water ecology
- Water chemistry
- Waste recycling/treatment
- Aquaculture

The success of the program is determined by

- Water testing results
- Biological activity of ponds

Links between classroom work and environmental project

- Aquaculture
- Agriculture production
- Systems agriculture
- Waste management
- Water quality

Environmental Reporting Themes and Issues for this project

Themes

Issues

Coasts and the Sea • Aquaculture



Inland Waters



- Water Quality
- Water Use

Land Resources



- Land use

Human Settlements



- Waste

Environmental Reporting Themes and Issues for this project

- Science
- Society and Environment

Elements of the Essential Learnings that your project develops

Futures

- Learners developing an understanding of patterns and connections within systems
- Learners building scenarios of preferred futures

Interdependence

- Learners coming to an understanding of cultural and global connections, patterns and evolutions
- Learners coming to an understanding of what is needed for sustainable social and physical environments

Thinking

- Learners developing enterprising and creative solutions for contemporary issues

Communication

- Learners being able to effectively use communication in a range of modes