**Sustainability Tour Extra Information for**

**Background**

Urrbrae Education Centre has involvement in numerous sustainable projects that have been running for many years now, the majority of which go unnoticed as they are just ‘what we do’ here at Urrbrae.

**Outcome**

Students learn and understand how native foods production, compost and water recapture and recycling can provide possible solutions in the complex issues surrounding feeding the world.

**Three of the main projects are:**

**Paddock C** – **Ian Blight -** Paddock C was set up as a trial plot for a range of commercially viable native food plants. It makes sense to eat what is grown locally and naturally in Australia. Also includes information about swales.

**Compost** **– Mark Innes -** Soils are the basis for agriculture and food production with about 95% of the world’s food directly and indirectly produced in our soils. Compost is a brilliant alternate to chemical fertilizers, replenishing the nutrients removed from food production. Composting is also a highly effective and environmentally friendly solution to the organic waste produced through various agricultural and horticulture practices.

**Bio Gas – Ian Reed -** As the human population grows to reach 9 billion by 2050 and the effects of climate are uncertain, discussion links back to food security as we consume significantly more meat than we do today. Many industries are looking towards intensive farming practices. As there is a shift to smaller farming areas its necessary to congregate animals, feed and production infrastructure into smaller areas, which leads to the issue of what to do with the waste products? Another question that arises is how do we ensure intensive farming practice are environmentally sustainable, economical and ethical?

**TAFE Rainwater capture and Recycling Wetland** – **self-directed** - Water is a finite resource. All living things rely on water! Urrbrae TAFE have set up a wetland with the aim of cleaning and reusing grey water for irrigation. They have also constructed an extensive rainwater capture system. Both these water recycling projects, reduce the sites reliance on mains water.

**Program**

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| Thursday Lesson 1 an 2 Class 1 – Kempe and Doyle Class 2 – Verica and GreensladeClass 3 – Bishop and Brookes Class 4 – Reyes and Brook  |
| Time  | Class  |
| 9:00am – 9:20am  | **Class 1 –** Paddock C 🡪 meet Mr Blight at Marsupial Enclosure**Class 2 –** Compost 🡪 meet Mr Innes Bee Shed**Class 3 –** Bio Gas🡪 Meet Mr Reed at Piggery**Class 4 –**TAFE Water Recycling**🡪** self-guided |
| 9:25am – 9:45am | **Class 1 –** TAFE Water Recycling**🡪** self-guided**Class 2 –** Paddock C 🡪 meet Mr Blight at Marsupial Enclosure**Class 3 –** Compost 🡪 meet Mr Innes Bee Shed**Class 4 –** Bio Gas🡪 Meet Mr Reed at Piggery |
| 9:50am – 10:15am  | **Class 1 –** Bio Gas🡪 Meet Mr Reed at Piggery**Class 2 –** TAFE Water Recycling**🡪** self-guided**Class 3 –** Paddock C 🡪 meet Mr Blight at Marsupial Enclosure**Class 4 –** Compost 🡪 meet Mr Innes Bee Shed |
| 10:20am – 10:45am  | **Class 1 –** Compost 🡪 meet Mr Innes Bee Shed**Class 2 –** Bio Gas🡪 Meet Mr Reed at Piggery**Class 3 –** Paddock C 🡪 meet Mr Blight at Marsupial Enclosure**Class 4 –** TAFE Water Recycling**🡪** self-guided |
| Thursday Lesson 3 and 4 Class 5 – Collis and Mason Class 6 – Curyer and AndersonClass 7 – Breeding and Queen Class 8 – Gibbs and Williams  |
| 11:10am – 11:30am  | **Class 5 –** Paddock C 🡪 meet Mr Blight at Marsupial Enclosure**Class 6 –** Compost 🡪 meet Mr Innes Bee Shed**Class 7 –** Bio Gas🡪 Meet Mr Reed at Piggery**Class 8 –**TAFE Water Recycling**🡪** self-guided |
| 11:35am – 11:55am  | **Class 5 –** TAFE Water Recycling**🡪** self-guided**Class 6 –** Paddock C 🡪 meet Mr Blight at Marsupial Enclosure**Class 7 –** Compost 🡪 meet Mr Innes Bee Shed**Class 8 –** Bio Gas🡪 Meet Mr Reed at Piggery |
| 12:00pm – 12:20pm  | **Class 5 –** Bio Gas🡪 Meet Mr Reed at Piggery**Class 6 –** TAFE Water Recycling**🡪** self-guided**Class 7 –** Paddock C 🡪 meet Mr Blight at Marsupial Enclosure**Class 8 –** Compost 🡪 meet Mr Innes Bee Shed |
| 12:25pm – 12:55pm  | **Class 5 –** Compost 🡪 meet Mr Innes Bee Shed**Class 6 –** Bio Gas🡪 Meet Mr Reed at Piggery**Class 7 –** Paddock C 🡪 meet Mr Blight at Marsupial Enclosure**Class 8 –** TAFE Water Recycling**🡪** self-guided |