

## Case Study

# Petrie Materials Recycling Facility

### Green File

The MRF facility uses the latest in automated optical separation technology and has the capacity to expand and meet the growing needs of the region by including a new infrared conveyor system.



### Location

Petrie, QLD

### Client

Moreton Bay Regional Council  
Sunshine Coast Regional Council

### Value

AUD \$287 million

### Duration

May 2008 to May 2018

### Contract Type

Schedule of Rates

### Referee

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Thiess Services designed, constructed and operates the Petrie MRF, which currently processes recycled material from commercial and residential waste streams from regions within two local councils in south east Queensland – Pine Rivers in Moreton Bay Regional Council and Caloundra City in Sunshine Coast Regional Council.

This facility processes paper, cardboard, glass, plastics, steel and aluminium, which is sold as raw materials in Australia and overseas. The Petrie MRF is part of a package of AUD \$287 million worth of combined contracts.

### Innovations

The MRF is fitted with the latest processing technology, including disc screens, computer controlled sorting machines and a new infrared conveyor system, which is designed to improve storage, throughput and products handling on arrival.

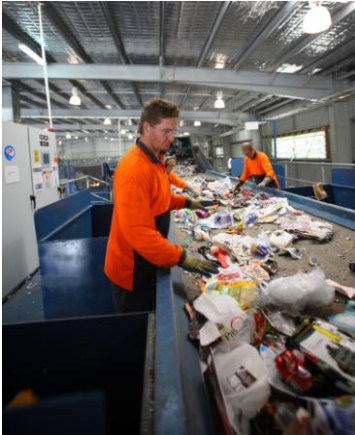
Computer operated sorting machines are used to separate fibre products (e.g. paper) from containers and enables the plant to process all newspaper products automatically. A longer in-bound pit enables greater product receipt and reduces the use of mechanical equipment.

### Quantities

Petrie MRF currently processes approximately 500 tonnes of recyclables per week and has the capacity to process up to 2000 tonnes per week.

### OHSE

Quarterly internal Health Safety and Environment audits are conducted continuously throughout the project.



### **Community Engagement**

The MRF features a purpose-built education centre, which is open to schools and community groups as a hands-on environmental experience into waste management and minimisation.

The EnviroEd education centre is operated in partnership with Keep Australia Beautiful Queensland, and provides students from age's eight to 12 with an in-depth experience learning about recycling and the whole waste cycle process using new recycling technologies.