

CASE STUDY

PROJECT

CLIENT

➤ PATRICK TERMINALS

LOCATION

➤ PORT OF BRISBANE, QLD

PROJECT

➤ WATER HARVESTING,
TREATMENT & RECYCLING
PLANT

OVERVIEW

As part of the expansion of Patrick Port of Brisbane operations, a new water efficient wash bay was required. The wash bay needed to comply with Australian Quarantine (AQIS) standards while also maximising reuse of the wash water and eliminating discharge of polluted water to local waterways.

BENEFITS

- The site is now water self sufficient for equipment wash down, toilet flushing and irrigation
- The new wash bay and water recycling system enables Patrick to comply with AQIS requirements for imported equipment wash down
- Protection of the environment from contaminants generated on site
- The inclusion of the filter press significantly reduced system operating costs and maximised water volumes recovered by the system



MORE INFORMATION

Please visit
www.clearmake.com.au
or call 1800 700 267

SOLUTION

Clearmake was selected to design, manufacture and commission a custom system for the new facility, working in partnership with Patrick and Gillon Consulting Engineers. The solution components included:

Clearmake Storm Water Diversion System

This system collects the first flush from the wash bay and directs it to the recycling system for treatment. Clean storm water is allowed to flow direct to underground storage tanks.

Clearmake Rain Water Harvesting System

Capable of treating up to 45,000L of harvested rainwater p/h, this system treats water harvested from the hardstand to a standard suitable for use in the wash bay, for irrigation and toilet flushing.

Clearmake Water Recycling System

Capable of treating up to 6,000L p/h of wash down water, this system removes silt, oil, grease and heavy metals from the water. It then filters and disinfects the water to make sure it's safe for reuse for vessel wash down.

Clearmake Filter Press

The filter press dewateres the waste sludge generated in the water treatment processes, reducing the operational costs of the system.

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