



Frequently asked Questions - Woombye

Flood modelling and management

What flood studies have been undertaken on the Woombye site to date?

A reference design was prepared by design consultants and subjected to flood modelling in order to demonstrate that Woombye was a feasible site for construction.

During the tender phase, all proponents undertook modelling of their proposed drainage designs to ensure they met the required flood immunity levels and impact criteria.

Leighton Contractors will undertake further modelling during detailed design to prove their final design.

Why is the stabling facility being built on land which has previously flooded?

Results from feasibility assessments regarding the potential for flooding of the site show no issues exist at Woombye that could not be appropriately mitigated.

Among other considerations, drainage systems will be designed and constructed to ensure there are no unacceptable impacts on flooding or environmental impacts on properties or infrastructure.

What flood modelling will Leighton Contractors undertake as part of detailed design?

A more detailed flood model will be set up to assess the Woombye stabling facility prior to construction. An industry standard two-dimensional hydrodynamic model will be used to determine flood conditions and behaviour for both Paynter Creek and the local catchments. The model will include existing cross drainage structures in the vicinity of the site, as well as those under the existing railway.

The model will use existing flood information including existing hydraulic and hydrology models from Queensland Rail, Sunshine Coast Council (SCC) and other sources. The hydrodynamic model will be verified and calibrated using historical flood data.

At this stage, the hydrodynamic model will be used to compare the existing flood behaviour to the flood behaviour after the Woombye stabling facility is constructed.

After the model is run, it will be used to verify and optimise the design to ensure there is no adverse effect on flood conditions outside of the project boundary.

For your information



What flood related criteria and standards will be considered during detailed design?

The Woombye stabling facility must be designed so that there are no unacceptable impacts on flooding or environmental impacts on properties or infrastructure.

When developing the hydrodynamic model for the Woombye stabling facility, the project will use the following standards to assess the design:

- Queensland Urban Drainage Manual
- Australian Rainfall and Runoff
- Department of Transport and Main Roads (DTMR) Road Drainage Manual
- State Planning Policy 2014
- Sunshine Coast Regional Council requirements

Where can I find out more information?

If you have a specific question that has not been addressed in this fact sheet, would like to register for more information or speak to a member of the Project Team, contact:

Phone: 1800 783 334 (free-call) Email: stabling@qr.com.au