



Woombye Stabling Facility

Project Questions – Flood modeling and management

For the proposed facility to proceed, the Sunshine Coast Council would have to grant permission for afflux (flooding) levels to be increased at Woombye. As the final flood modelling has not been completed by Queensland Rail, please confirm if permission has already been granted by Council.

Sunshine Coast Council is not required to approve flood modelling.

The Woombye stabling facility will need to be designed to ensure that there is no increase to afflux (flooding) on the Woombye community.

What mitigation will be in place so certain houses will not suffer increased flooding.

The stabling facility drainage systems will be designed and constructed to ensure there are no adverse affects on water levels or flood conditions outside the property boundary and within Woombye.

Will there be an increase in flood water levels over a wide area due to loss of flood plain storage in Woombye resulting in a topography change to the site and housing estates underway/ planned in Woombye.

Queensland Rail is very conscious of the community concerns around flooding and can assure the Woombye community the facility will not be designed in a way that has an adverse impact on flooding in Woombye by increasing flood levels currently experienced.

The stabling facility drainage systems will be designed and constructed to ensure this.

For your information



Can Queensland Rail demonstrate how the cumulative effect of both the stabling yard and the planned rail duplication will impact on flood levels.

Queensland Rail is very conscious of the community concerns around flooding and can assure the Woombye community the facility will not be designed in a way that has an adverse impact on flooding in Woombye by increasing flood levels currently experienced.

Accurate flood modelling can only occur at detailed design stage when a final design can be tested.

The timing, exact requirements and sequence of construction of any potential future work significantly impact on the flood modelling, and the outcome will be different depending on the exact requirements at the time of construction.

The correct time to do flood modelling is when the exact design requirements are understood.

Do Sunshine Coast Council current guidelines require climate change be taken into account?

There is no requirement for Sunshine Coast Council to approve flood modelling.

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.

For your information



Queensland Rail states climate change modelling usually occurs in areas influenced by coastal conditions but has Queensland Rail taken into account the possibility of flooding greater than 1 in 100 years?

Does modelling, in particular flood modelling provide estimates for both current and future climate scenarios as mentioned in the Sunshine Coast Planning Scheme (REF) and other listed scenarios.

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.

The focus of the analysis for this site is to review comparative impacts – ie before and after the works and to mitigate any adverse impacts.

Leighton Contractors is undertaking flood modelling which includes modelling for a 10 year ARI, 50 year ARI and 100 ARI.

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- 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.

Surely, climate change affects inland areas as well? What are the current Queensland Rail guidelines in relation to this? While not proven to be from climate change, Toowoomba/ Lockyer floods for example are unprecedented in living memory of residents residing in these areas.

Climate change modelling usually occurs in areas influenced by coastal conditions to assess the relative importance of various factors, such as the warming of ocean water and the loss of ice from the polar ice sheets, in driving sea-level rise. For coastal regions flooding from a storm surge as the storm rides on higher sea levels is considered (i.e. Moreton Bay Rail).

This is not relevant for the Woombye stabling facility.

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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 from the local area. The focus of the analysis for this site is to review comparative impacts – i.e. before and after the works and to mitigate any adverse impacts.

Why is the stabling facility being constructed on a site that is an existing floodplain well recognised by local Council.

It is recognised that the site is prone to flooding.

Queensland Rail is very conscious of the community concerns around flooding and can assure the Woombye community the facility will not be designed in a way that has an adverse impact on flooding in Woombye by increasing flood levels currently experienced.

Why doesn't noise and flood modelling consider the future rail stabling stages, rail duplication, climate change or the massive increase in residential development planned between Taintons Road and Pine Grove Road.

At this point in time, the Landsborough to Nambour rail upgrade project is not scheduled or planned for delivery.

When the project progresses, it will be managed to ensure there will be no adverse effects on water levels or flood conditions outside the property boundary.

Queensland Rail is very conscious of the community concerns around flooding and can assure the Woombye community the facility will not be designed in a way that has an adverse impact on flooding in Woombye by increasing flood levels currently experienced.

Accurate flood modelling can only occur at detailed design stage when a final design can be tested.

The timing, exact requirements and sequence of construction of any potential future work significantly impact on the flood modelling, and the outcome will be different depending on the exact requirements at the time of construction.

The correct time to do flood modelling is when the exact design requirements are understood.

For your information



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

Last updated 2 December 2015