## Foxground and Berry bypass

## WELCOME

## SOUTHEुरN ROUTE REVIEW QUESFION AND ANSWERS I March 2012

## Who is here from the project team?

Facilitator, Lucy Cole-Edelstein, Straight Tais
Fiona Court, General Manager, RMS Infrastructure Communications.
Ron De Rooy, Project Manager, Fex
Adam Berry, Project team, RMS.
Carla Brookes, Project congrunications, RMS.
Angela Malpass, Projectcommunications, AECOM.
Kerri Hale, Project ommunications, AECOM.
Stuart Dalzieil, Transport planning and Traffic Modelling, AECOM.

## Meeting agenda

6.30 Welcome, housekeeping and introductions (Lucy).
6.35 Progress on Southern Review (Adam).
6.55 Questions and answers about Southern Review. (Adam).
8.15 Thanks and close.

## What we covered last time...

- Review team established.
- Flooding investigations undervay.
- Geotechnical investigatioos underway.
- Developing a route vichin the blue area.

Tonight well update you on these and answer any questions you have about the review.

## Review team will..

- Develop an indicative route bypassing Berry to the south with sufficient information to produce a robust stratogic cost estimate.
- Use its best endeavours to:
- Optimise the southern route in rninimise property impacts and land severance.
- Engineer a cost effectiesouthern route solution.
- Apply any benefits frund on the southern route to the northern route where applicable, and vice versa.
- Evaluate cire southern bypass route by comparing it to the current northern preferred bypass route within the context of the whole Foxground and Berry Bypass (FBB) Princes Highway Upgrade.


## Flooding - last time we spoke about....

- Determining the appropriate leyel of the road surface to provide I in 100 year floodimmunity.
- Climate change projections will be included as will predicted increase in anfall intensity.
- Increased influence of Shoalhaven River due to proximity is being examined and is complex.


## Flooding - since last time.

- The appropriate level of the road surface to provide I in 100 year flood immunity hás been determined.
- How?
- Cardno flood study dione for Shoalhaven Council.
- Cardno flood studiy done for Railcorp.
- AECOM floc さ̀ studies.


## Flooding - since last time.

- What is it - it is 7.5 metres AHD (AHD is approximately sea level, notirg that sea level is tidal).
- For context - the railwaydine is approximately 5 metres above AHD.
- What does this mean? This level sets the lowest point at which we can have the actual road level, the pavement, shrough the southern route.

Flooding - since last time.

- Insert graphic of flood levels north and sputh from AECOM (not yet available)

Geotechnical Investigations - last time we spoke about....

- Knowing the ground conditions helps RMS io work out what earth and concrete structures are suitable to support the road.
- What type of foundations and how deep. What depth of soil might need to be removed. Would spfosoil treatments be needed and if so, where? Work on north and South looking at the depth and type of soils and at what depth bedroti. is.
- Two types of investigations - drilling to take core samples and cone penetration tests


## Geotechnical investigations - since last time.



## Geotechnical investigations - since last time



Developing a route within the blue -
Transport
Roads \& Maritime last time we spoke about....

- Minimising property impacts.
- Understanding the height of the road: eeeping it as low as possible but with flooding constraints in mind
- Rail crossing considerations - -éking at structure types - bridges and arches - as well as Railcorprequirements, in detail.
- Considerations around here embankments will end/transition to structures as well asyhat structures, where, and what size. Similar considerations witil embankments.

Developing a route within the blue since last time.....

- A route has been developed.
- It is within the blue area in the maps provided to the community, but it is different.
- It is a route that is technically fersible.
- This does not necessarily man that it is the route we would pursue if this costing review reselted in the southern route moving forward into more detailed investisations. It is a route for comparison costing.
- IF the costing leads to further investigations, any southern route would require fyether adjusting/refining based on many local issues in consultation with the community.


## Refined route within blue area

## : (Yy) Transport

Roads \& Maritime
Services


Developing a design within the blue route since last time.....

- The answers to many of your questions stiliaren't known yet.....
- How high will the embankments be?
- Where will they end? Where willtey start? This is closer to being finalised.
- Where will bridges start and end? How high will they be?
- We will provide you widh this information in detail as soon as we can, but that is still at leace three weeks away.
- However the following graphics show some indicative structures.


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DPECOANT ONBATEB
weak over serf secs

Hrack sechow will
10VER FLOODPLAN - CHTB100)
at to scale


No is:







REVISION IN PROGRESS

## Rail Crossing Concept Sections



## Next Q and A session - technical focus.

- Next time - March 19th - Technical specialists will give presentations and answer questions on:
- Details of flooding and drainagé nestigations.
- Details of geotechnical investrgations - subject to any results being available.
- Details of bridges and structures - depending on how advanced the design is.
- Details of cor struction considerations and methodologies.


## Thank you

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