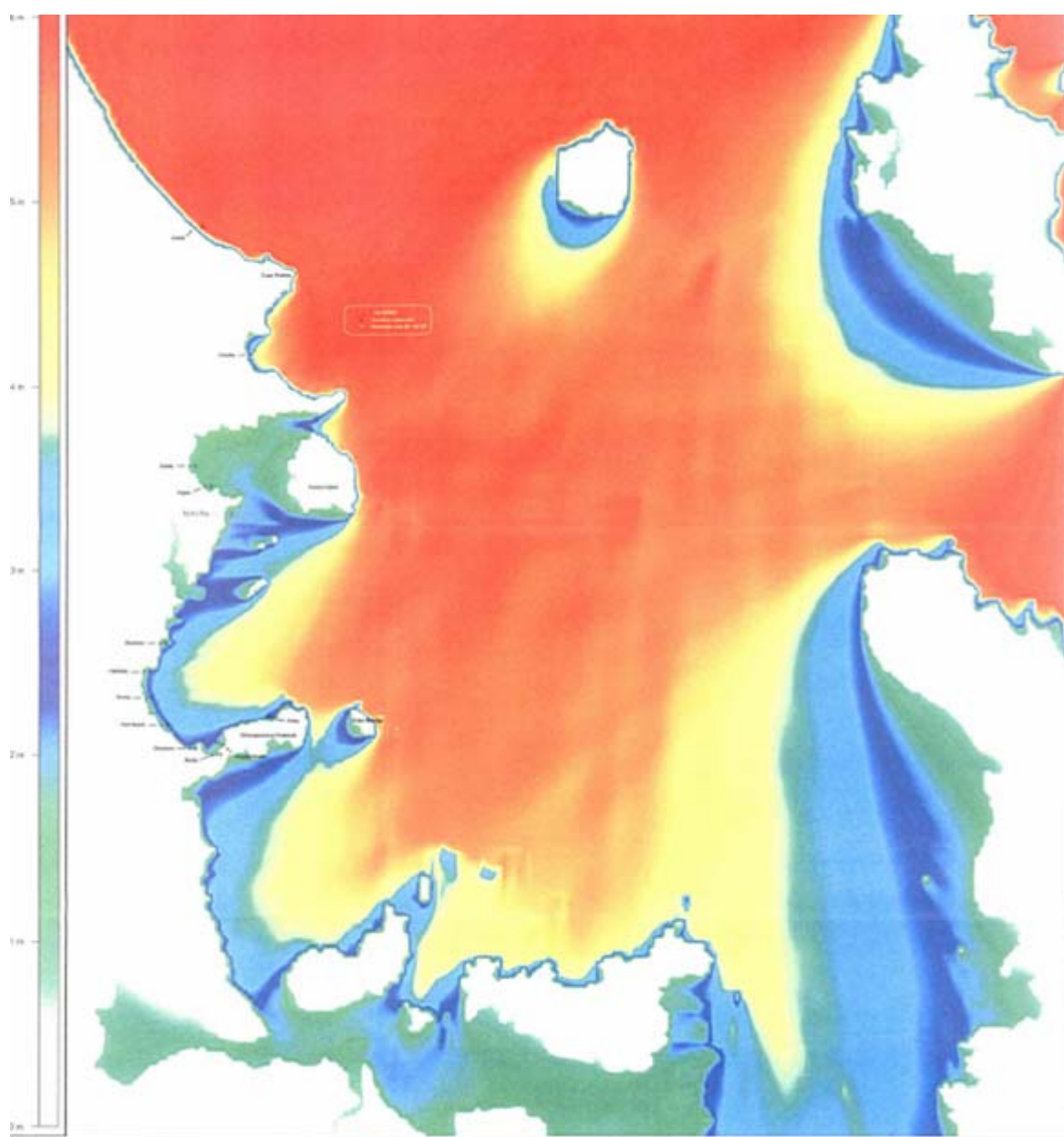


T I D A L I N N U N D A T I O N



10222000.jpg (2.1 Mb)

 Tonkin & Taylor Civil, Marine & Engineering Consultants	Drawn	1/15	14/11/15
	Checked		
	Scale	1:25000	Fig. 2.3.dwp
	Scale	1:300000	

RODNEY DISTRICT COUNCIL
RODNEY INUNDATION STUDY

SWAN Wave Model Output

Problems

- Lack of Data
 - Uncertain Harbour Tide data – Installed gauge
 - Topographic, esp estuaries and rural areas
- Double Whammy
 - Combined probability of inundation and runoff
- Business as Usual!!

Minimum Floor Levels

- Consultant Advice
 - 100 yr storm surge + 0.5m FB + SLR to 2050
 - Effect on RDC – Increases floor levels 0.6- 1.6m above existing
- RDC Approach
 - 50 yr storm surge +0.2m FB + SLR to 2025
 - Effect on RDC _ Increases levels 0.1 – 1.1m above existing
 - Monitor

50 yr Inundation levels



After the Studies

- Hazard Maps and LIMs
- Business as Usual – Not
 - DP Issues
 - Can build 2 houses as of right (High Intensity Zone)
 - Once built, subdivision assessment criteria doesn't work – eg. won't worsen risk

After the Studies

- BA
 - S72 says *waiver must be granted*
 - *If it is reasonable to grant a waiver or modification of the BC – what's reasonable and what is being modified*
- 106 RMA
 - *May refuse to grant a consent*
 - *Subject to material damage*
 - *Likely to accelerate, worsen or result in material damage*
 - *Sufficient provision for access*