Traffic projections

Gerringong upgrade Princes Highway

JUNE 2010



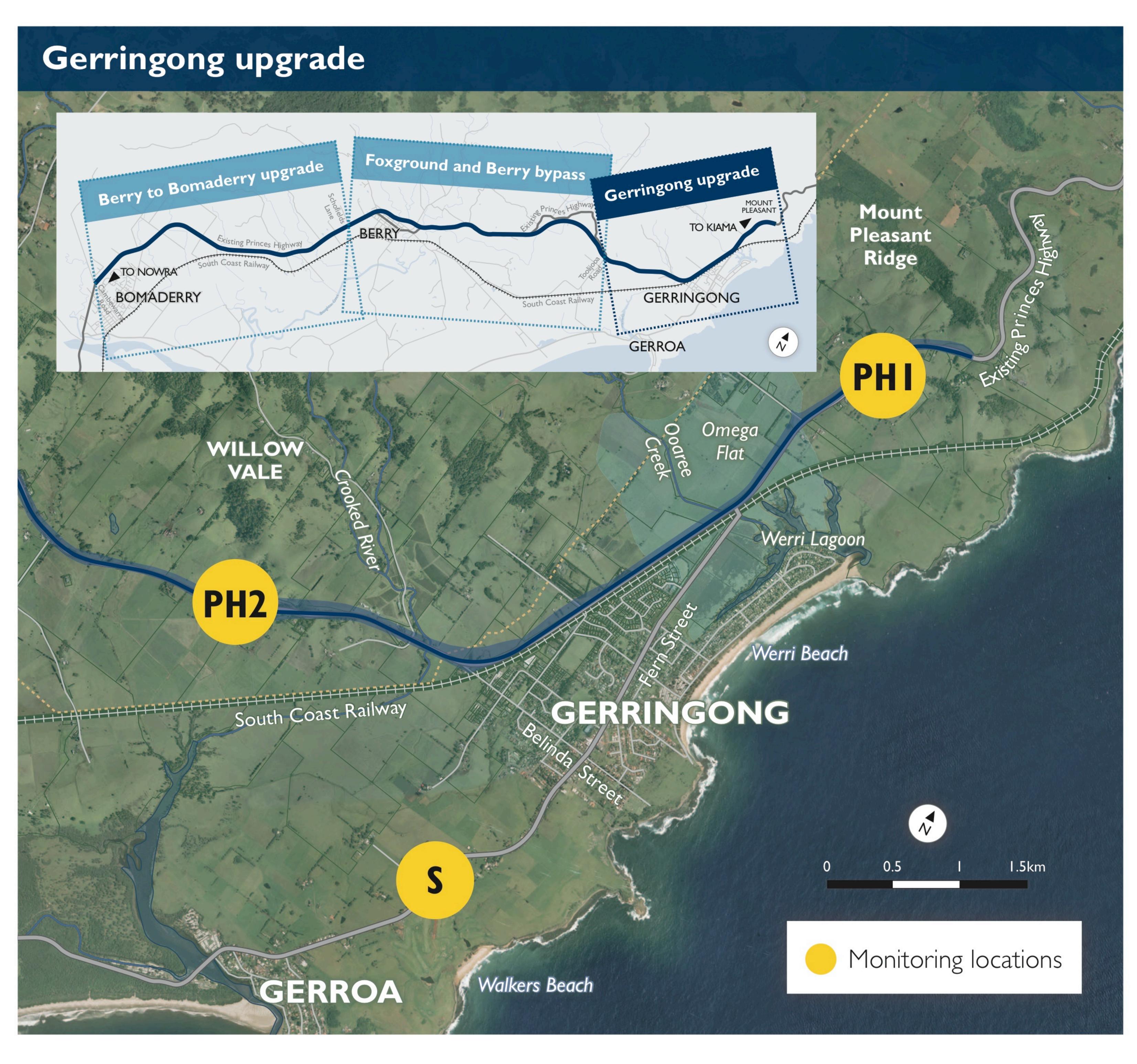


Traffic growth							
Location		Measure	Construction staging				
			2010	Gerringong upgrade complete	2034		
PHI	Princes Highway, north of Gerringong	AADT* volume	21,560	24,190	37,350		
		Growth from 2010 (%)	_	12%	73%		
PH2	Princes Highway, south of Gerringong	AADT* volume	10,760	12,110	24,010		
		Growth from 2010 (%)		13%	123%		
	'Sandtrack' south of Gerringong	AADT* volume	8,950	9,910	11,830		
S		Growth from 2010 (%)		11%	32%		
PH2 S	Princes Highway + 'Sandtrack' south of Gerringong	AADT* volume	19,710	22,020	35,840		
		Growth from 2010 (%)		12%	82%		
*			*AADT Annual average of	daily traffic (total average dai	ly traffic in both directions)		

"AAD I Annual average dally traffic (total average dally traffic in both directions).

Traffic	distribution

Location			Construction staging				
		Measure	2010	Gerringong upgrade complete	2034		
PH2	Princes Highway, South of Gerringong	% Total traffic	55%	55%	67%		
S	'Sandtrack' south of Gerringong	% Total traffic	45%	45%	33%		



Proposed upgrade of the Princes Highway between Mount Pleasant and Toolijooa Road (approximately 7.5km).

Foxground and Berry bypass.

Proposed upgrade of the Princes Highway between Toolijooa Road and Schofields Lane, south of Berry, including the construction of a bypass for Berry (approximately 11.5km).

Berry to Bomaderry upgrade.

Proposed upgrade of the Princes Highway between Schofields Lane and Cambewarra Road, Bomaderry (approximately 11.3km).

Traffic summary Location Measure			Highway performance: level of service					
PHI	Princes Highway, north of Gerringong	 Traffic growth is due to natural population growth in the area. 100th (Peak) Hour Traffic** to increase from 2,500 Vehicles/Hr (2010) to 4,341 Veh/Hr by 2034. 2034 AADT* predicted increase to 37,350 Vehicles per Day; an 73% increase on 2010 traffic volumes. Heavy vehicle proportions to remain at approximately 8% of total daily traffic. 	Location PHI Year AM peak hour PM peak hour 100th (peak) hour	Base year 2010 E E	No up 2014 B C C	2034 E E	With u	2034 B B
PH2	Princes Highway, south of Gerringong	 Traffic growth is due to natural background rates, plus traffic shifting to the Princes Highway from the Sandtrack following road safety, comfort and travel time improvements. 100th (Peak) Hour Traffic** to increase from 1,250 Veh/Hr (2010) to 2,790 Veh/Hr in 2034. Heavy vehicles at this location currently make up about 12% of total daily traffic; the proportion would reduce to about 10% by 2034 as no heavy vehicles are expected to shift across from the Sandtrack. Princes Highway traffic in the Gerringong to Bomaderry corridor is expected to increase to 67% of total traffic by 2034. 	Location PH2 Year AM peak hour PM peak hour 100th (peak) hour	Base year 2010 D E	No up 2014 (B)	2034 (B)	With u	2034 A B
S	'Sandtrack' south of Gerringong	• Heavy vehicles at this location would remain at only 2-3% of total daily traffic due to the 5 tonne load limit	Location S Year AM peak hour PM peak hour 100th (peak) hour	Base year 2010 Co Do Do Do Do Do Do Do Do Do	2014 (G)	grade 2034 D	2014 Co Co	2034

Level of

service Traffic conditions

Free flow conditions, drivers unaffected by others on highway, excellent level of comfort and convenience.

Stable flow conditions, drivers slightly affected by others on highway, good level of comfort and convenience.

Stable flow conditions, drivers restricted by others on highway, significant decline in comfort and convenience.

Approaching unstable flow conditions, drivers severely restricted by others on highway, poor level of comfort and convenience, with increases in traffic causing operational problems.

Unstable flow conditions, drivers totally restricted by others on highway. Traffic volumes at or close to capacity, with minor disturbances causing total traffic breakdown.

Forced flow conditions, traffic volumes exceed capacity, creating flow breakdown resulting in queues and delays.