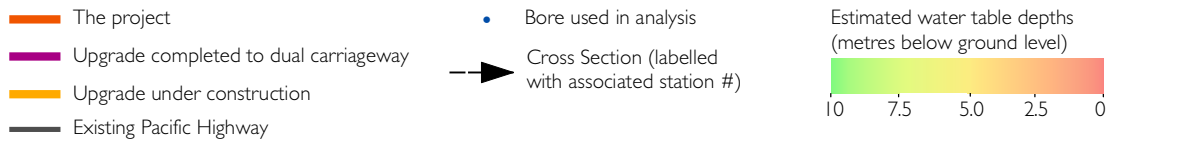
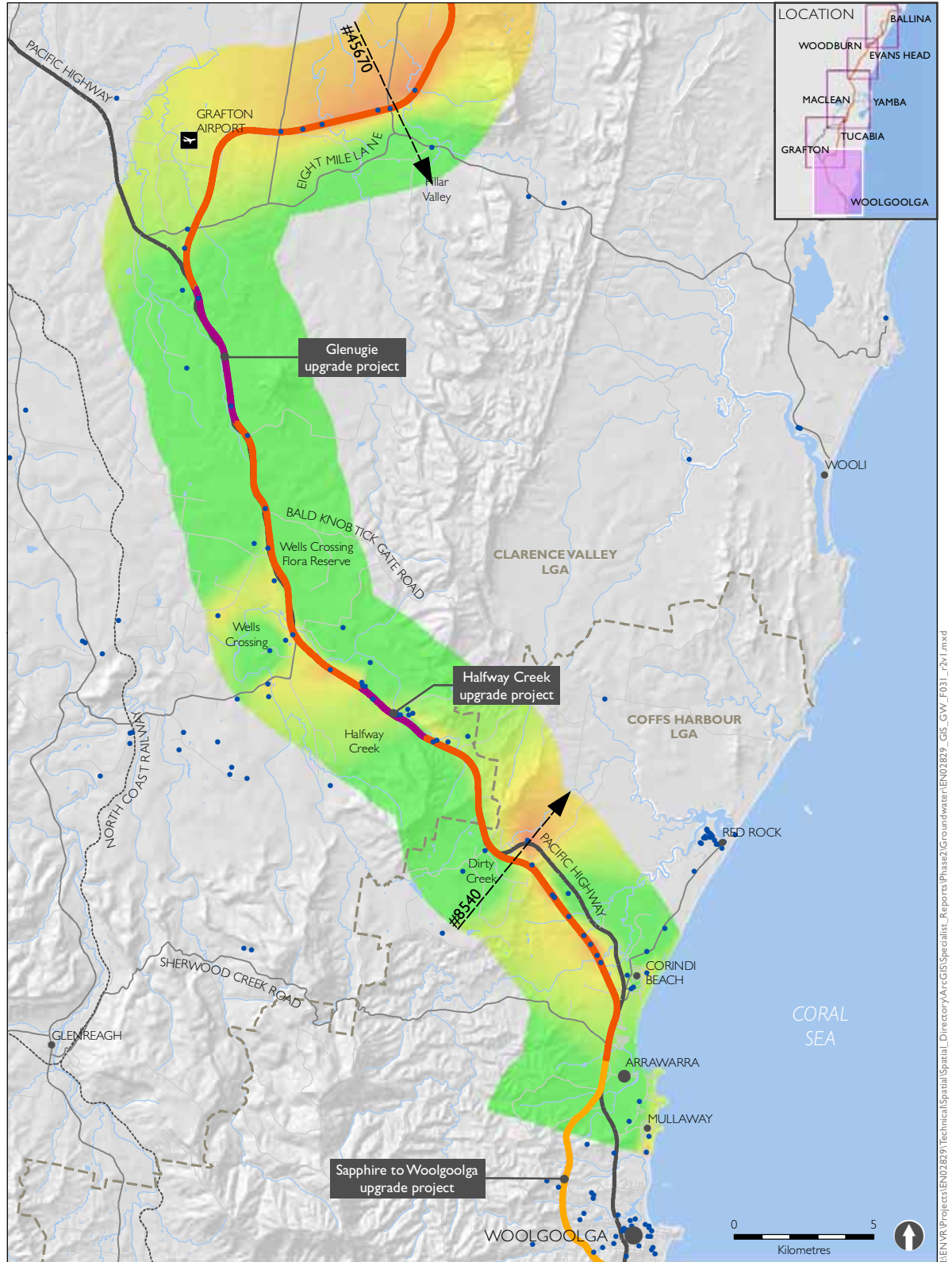


Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

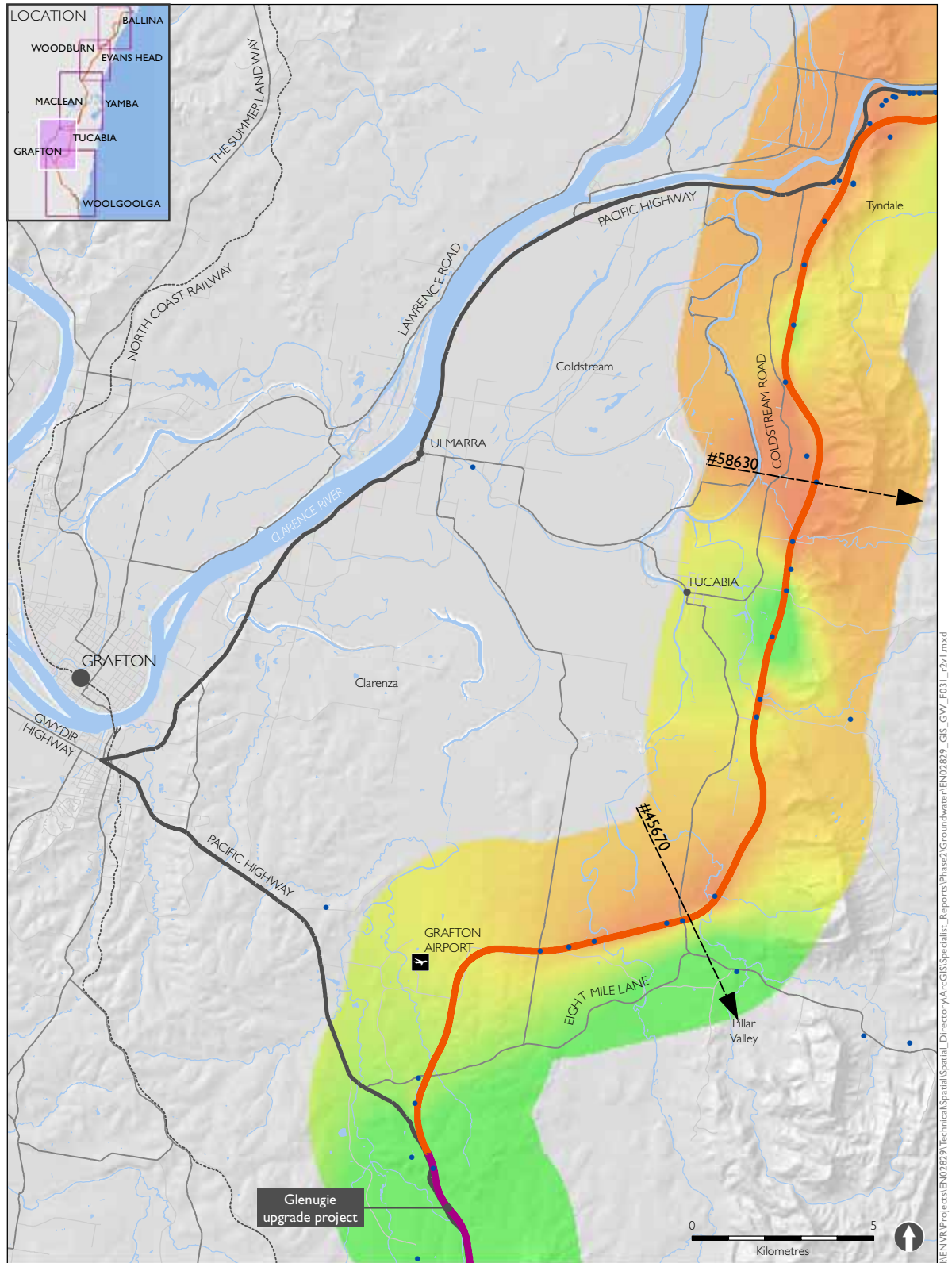
Figure A2-1 Estimated water table depth and cross sections



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Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

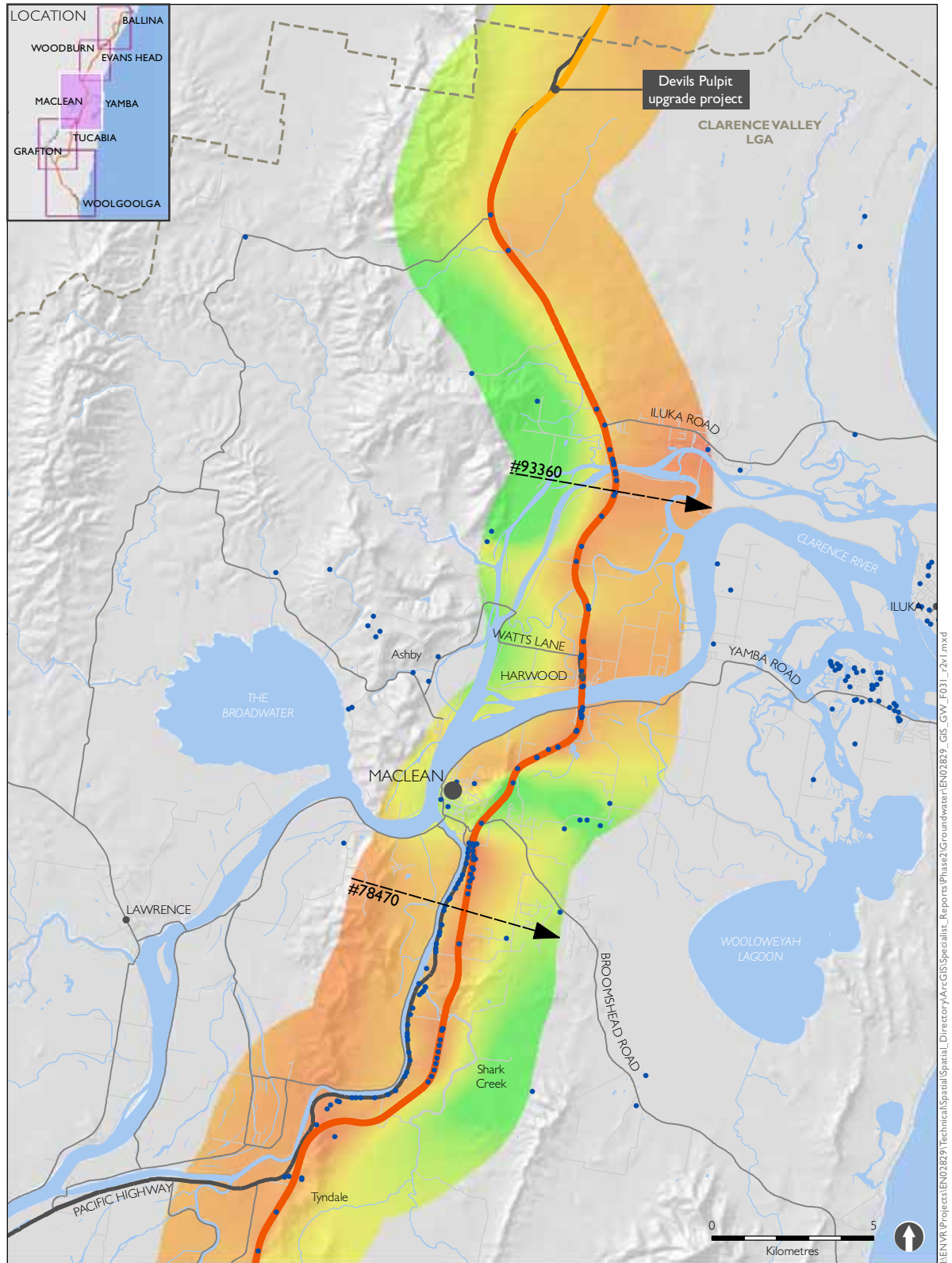
Figure A2-2 Estimated water table depth and cross sections



- The project
 - Upgrade completed to dual carriageway
 - Upgrade under construction
 - Existing Pacific Highway
 - Bore used in analysis
 - ➔ Cross Section (labelled with associated station #)
- Estimated water table depths (metres below ground level)
- 10 7.5 5.0 2.5 0

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

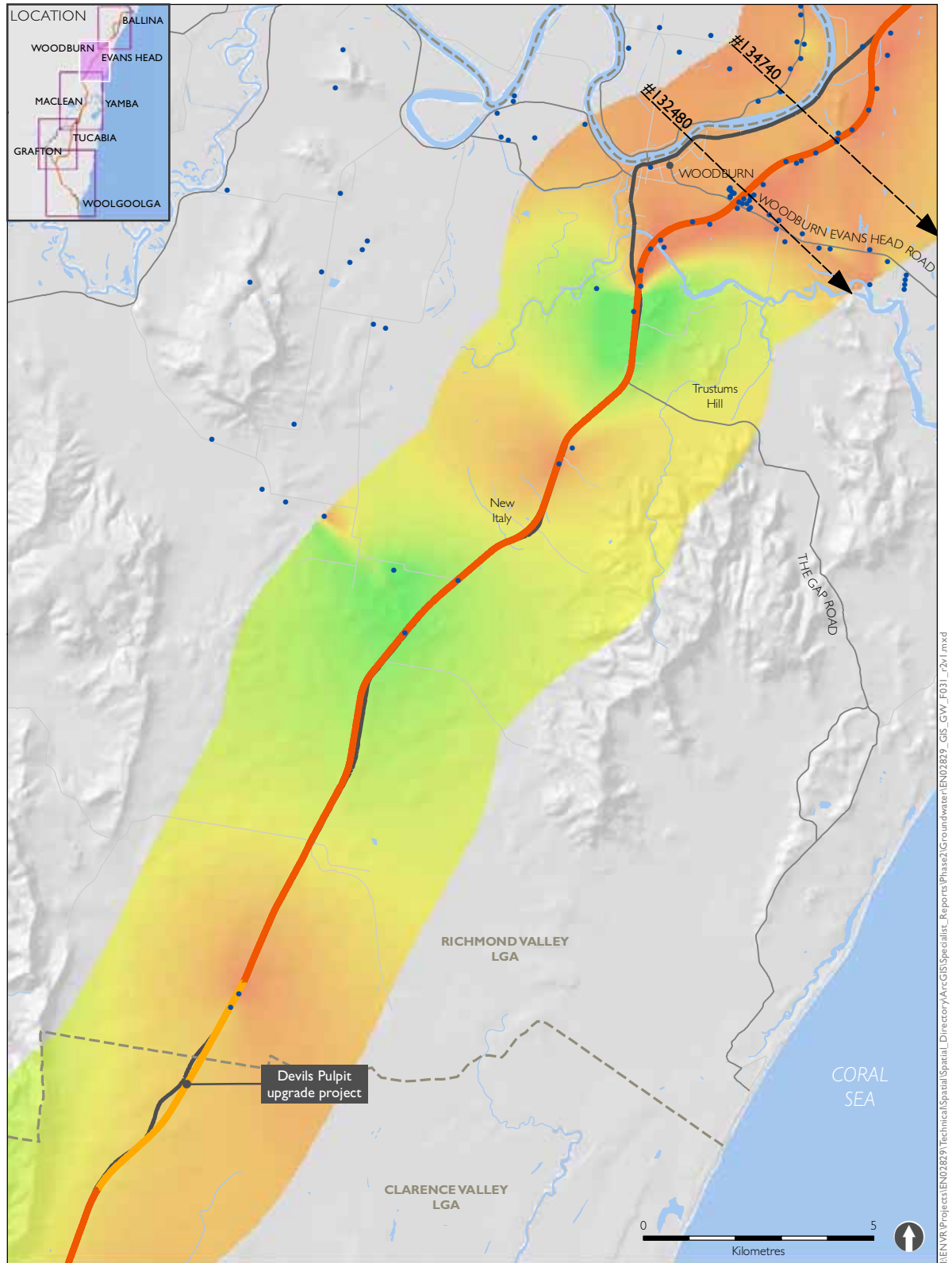
Figure A2-3 Estimated water table depth and cross sections



- The project
 - Upgrade completed to dual carriageway
 - Upgrade under construction
 - Existing Pacific Highway
 - Bore used in analysis
 - ➔ Cross Section (labelled with associated station #)
- Estimated water table depths (metres below ground level)
- 10 7.5 5.0 2.5 0

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

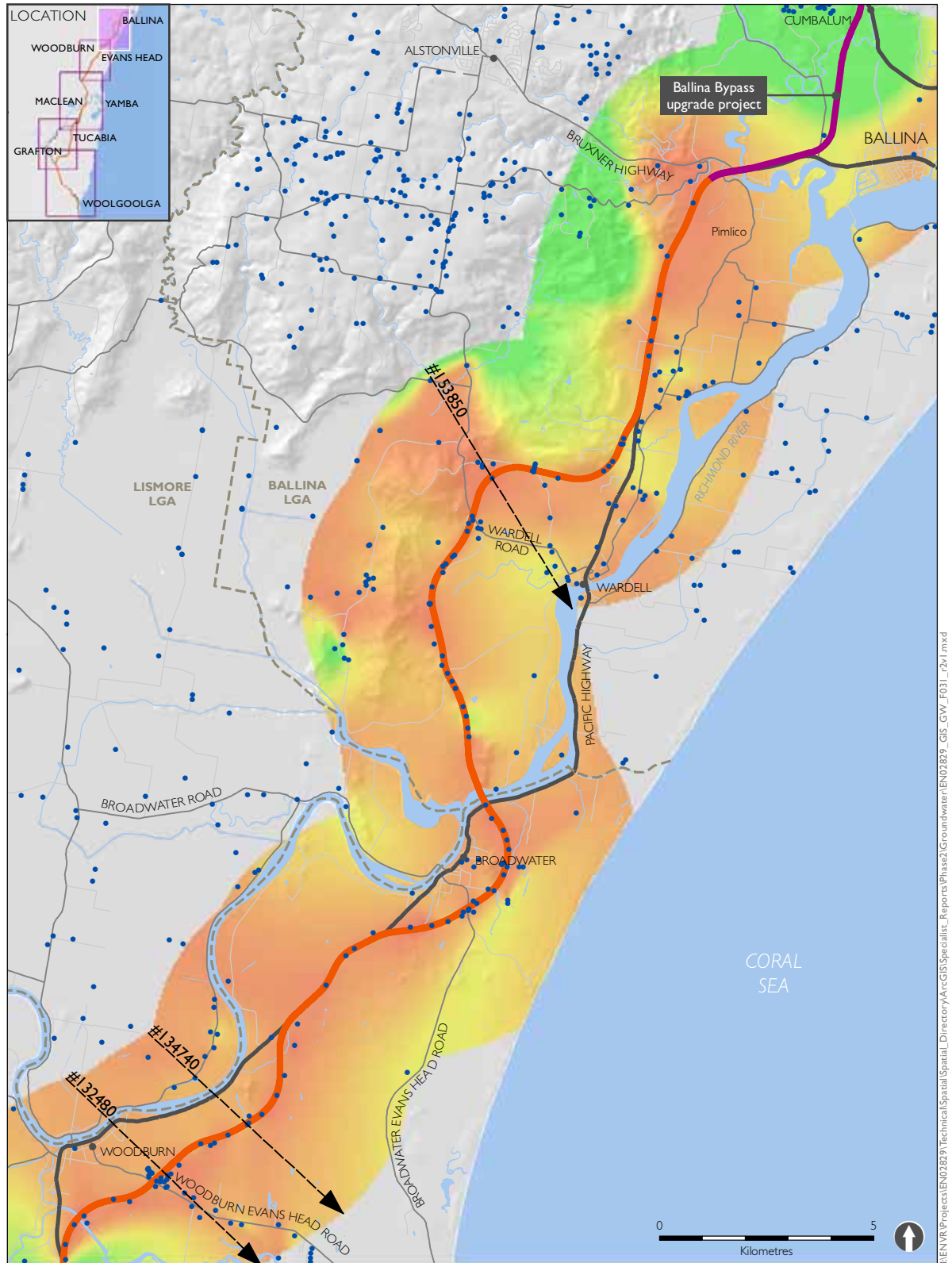
Figure A2-4 Estimated water table depth and cross sections



- The project
 - Upgrade completed to dual carriageway
 - Upgrade under construction
 - Existing Pacific Highway
 - Bore used in analysis
 - ➔ Cross Section (labelled with associated station #)
- Estimated water table depths (metres below ground level)
- 10 7.5 5.0 2.5 0

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

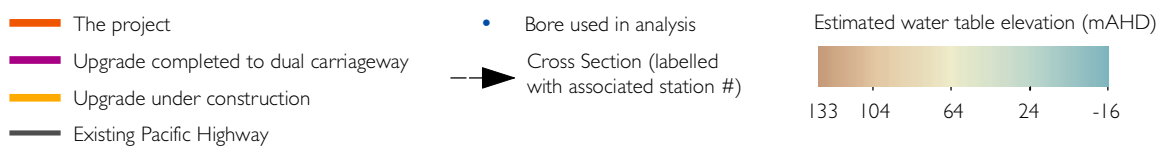
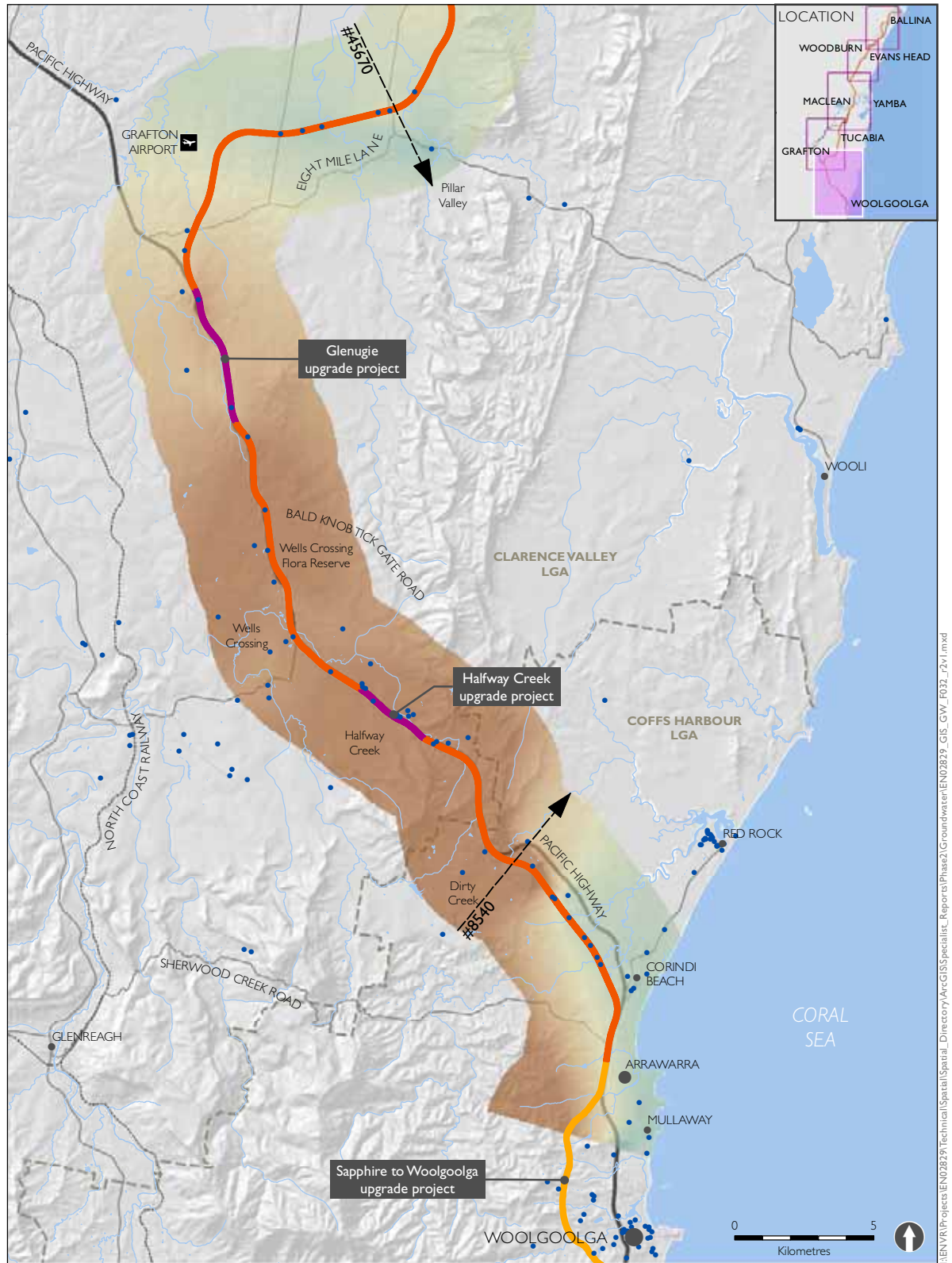
Figure A2-5 Estimated water table depth and cross sections



- The project
 - Upgrade completed to dual carriageway
 - Upgrade under construction
 - Existing Pacific Highway
 - Bore used in analysis
 - ▶ Cross Section (labelled with associated station #)
- Estimated water table depths (metres below ground level)
- 10 7.5 5.0 2.5 0

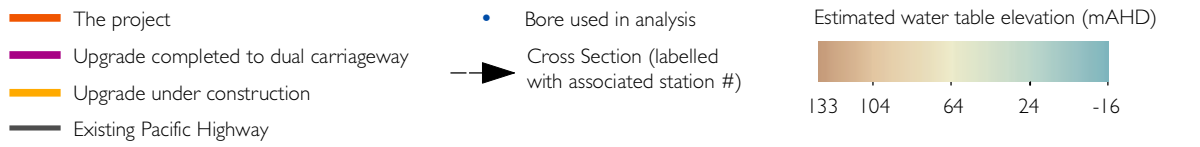
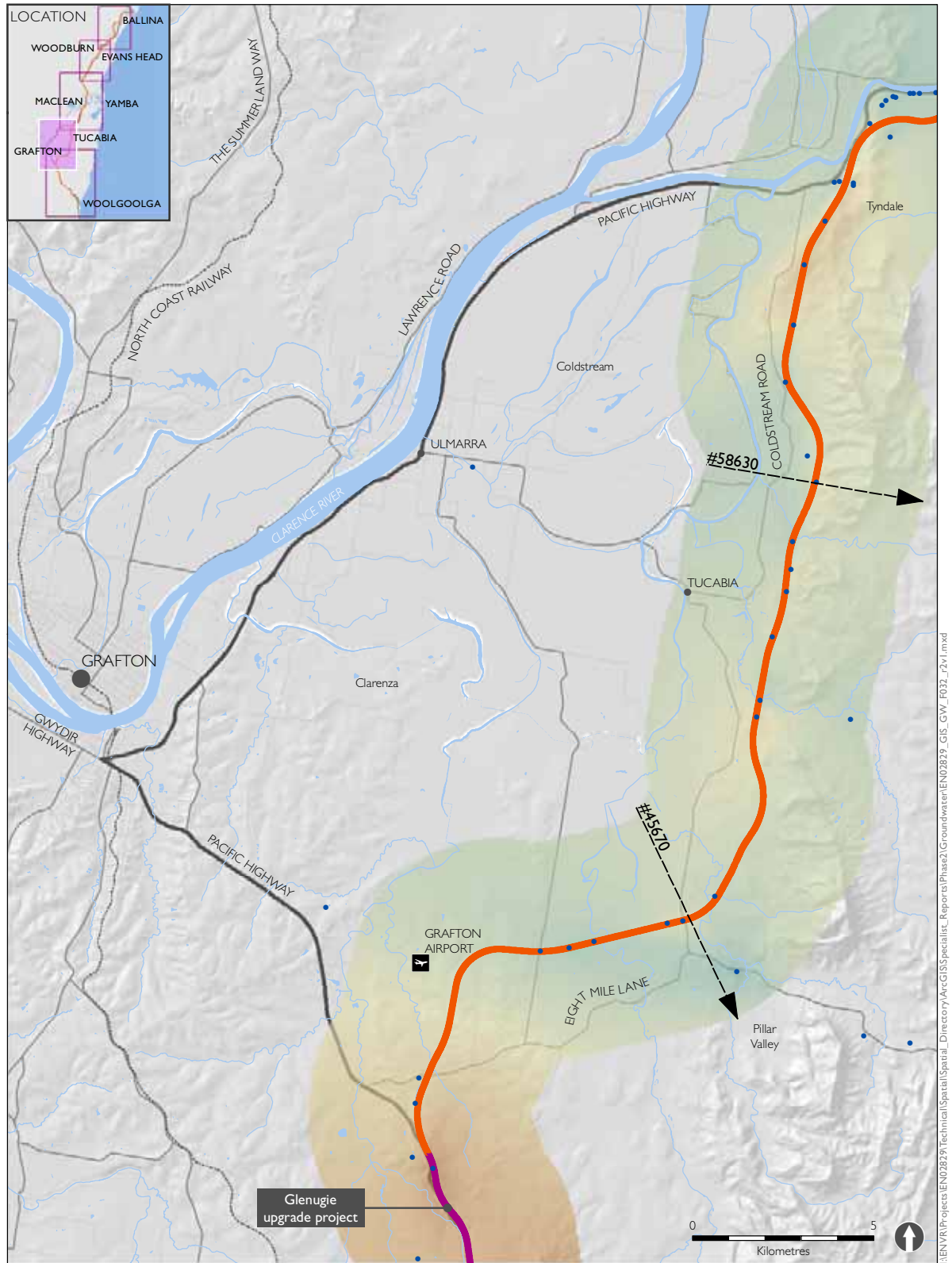
Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-6 Estimated water elevation and cross sections



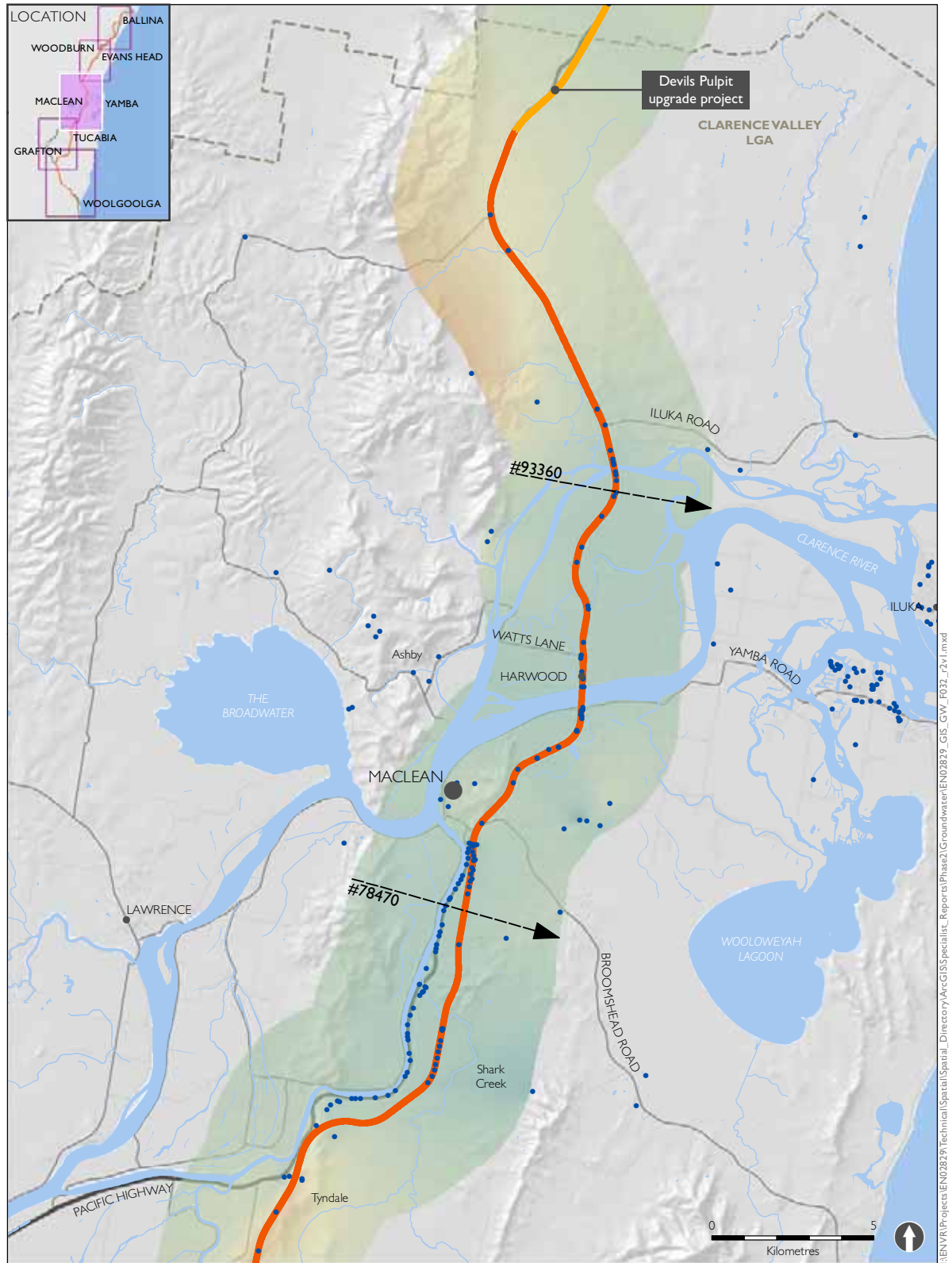
Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-7 Estimated water elevation and cross sections



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

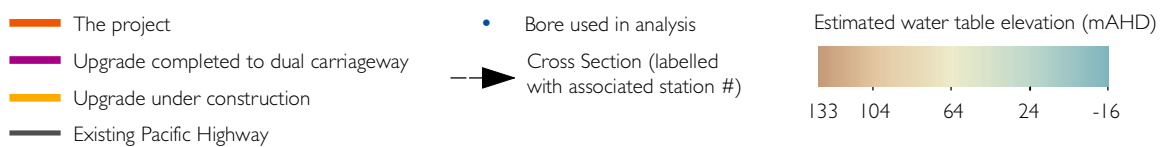
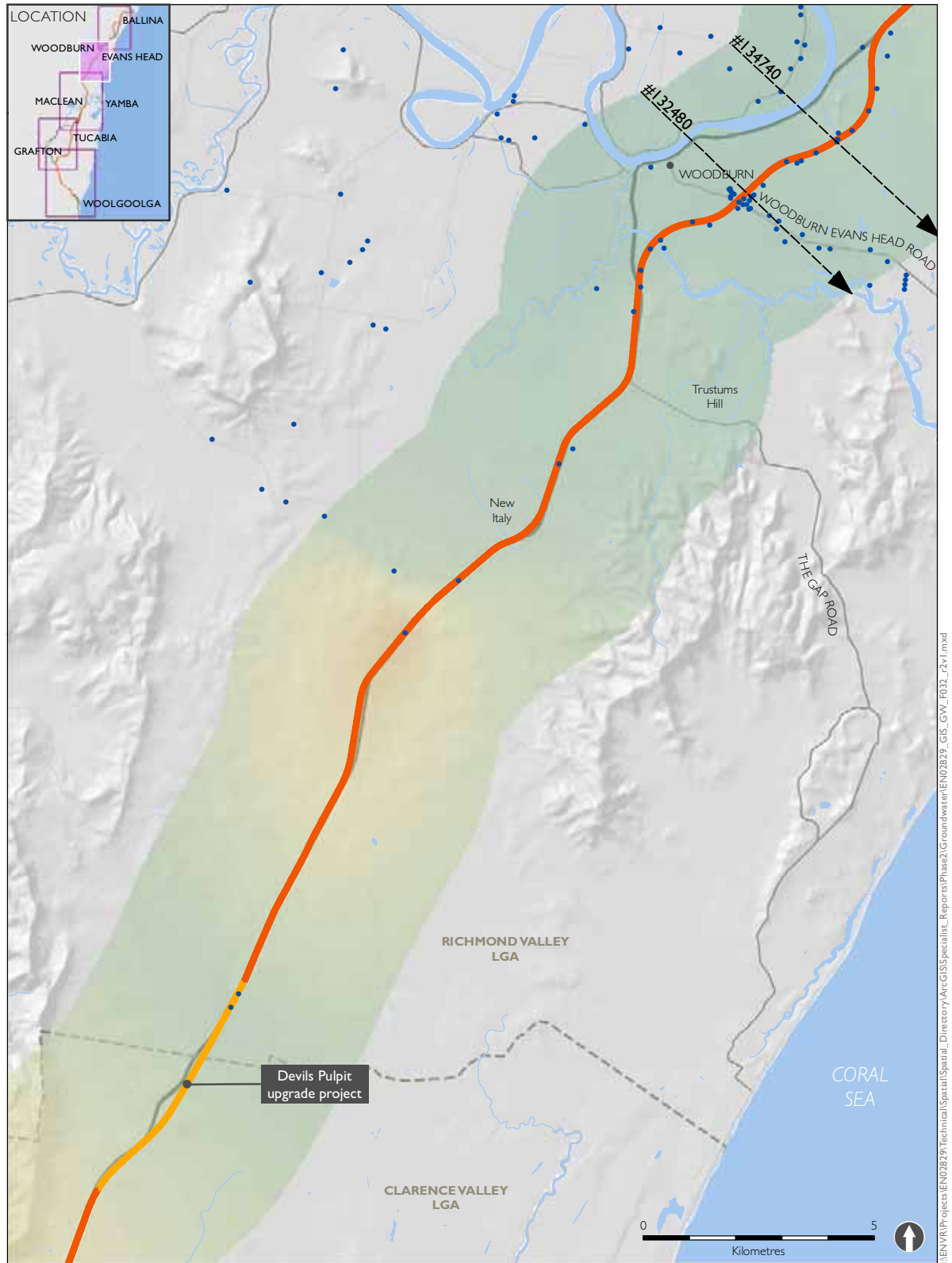
Figure A2-8 Estimated water elevation and cross sections



- The project
 - Upgrade completed to dual carriageway
 - Upgrade under construction
 - Existing Pacific Highway
 - Bore used in analysis
 - > Cross Section (labelled with associated station #)
- Estimated water table elevation (mAHD)
-
- 133 104 64 24 -16

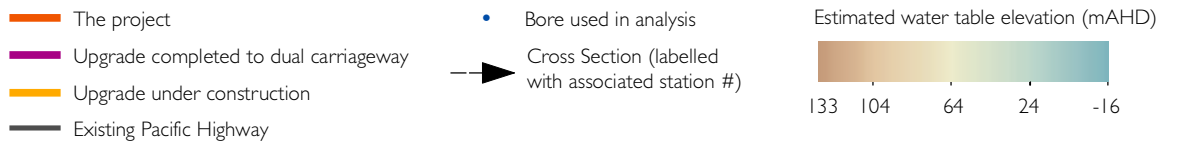
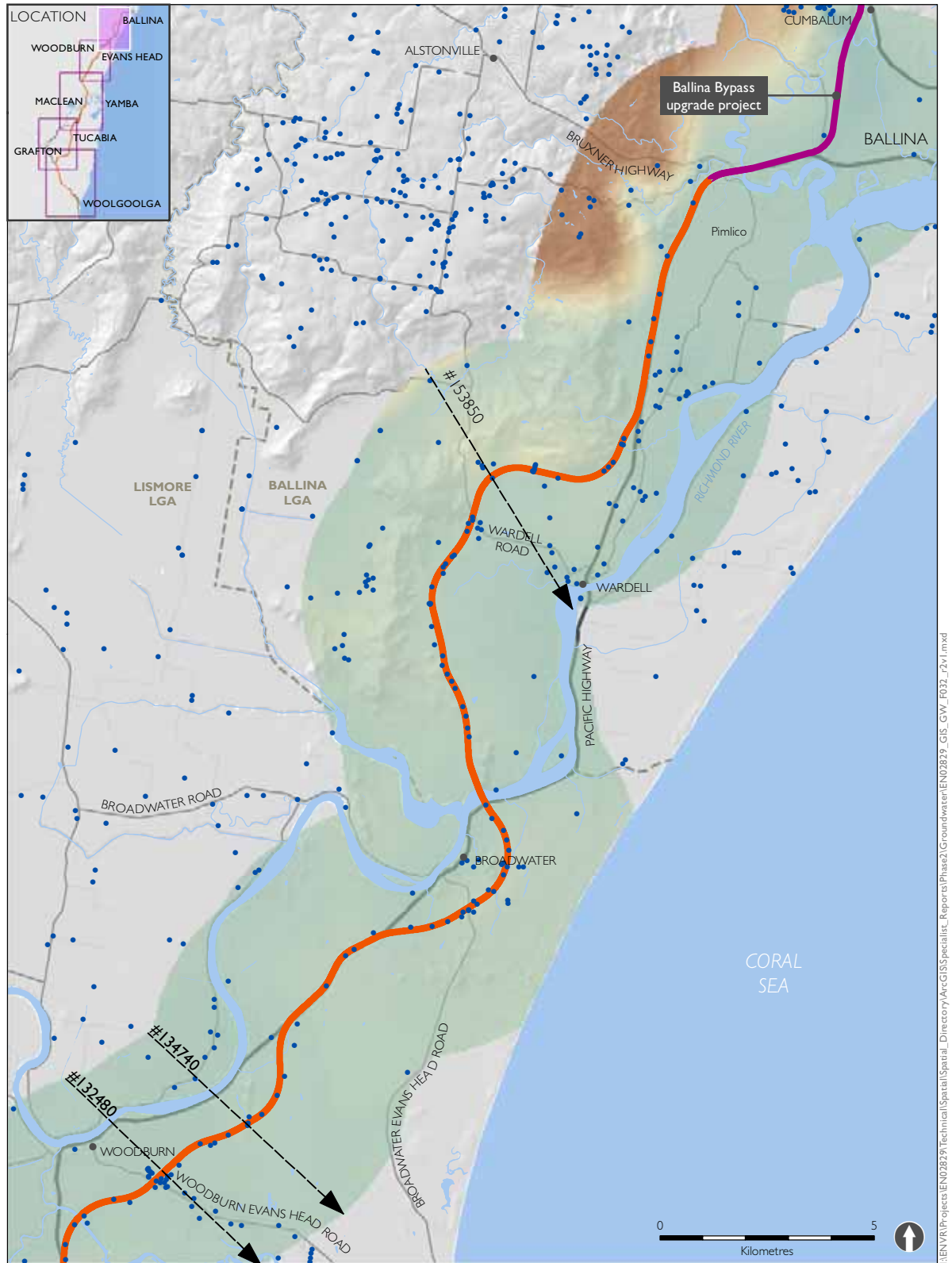
Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-9 Estimated water elevation and cross sections



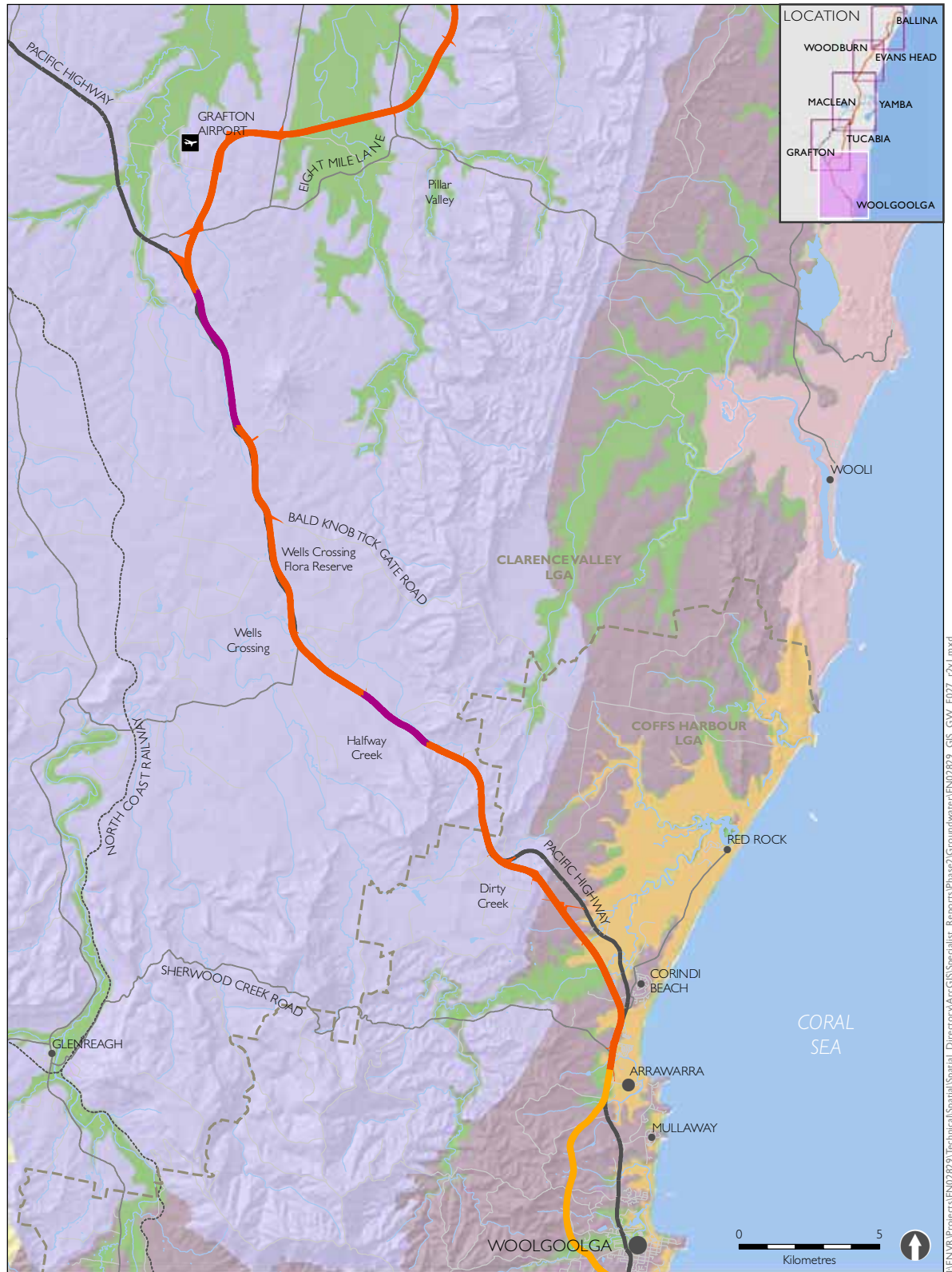
Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-10 Estimated water elevation and cross sections



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

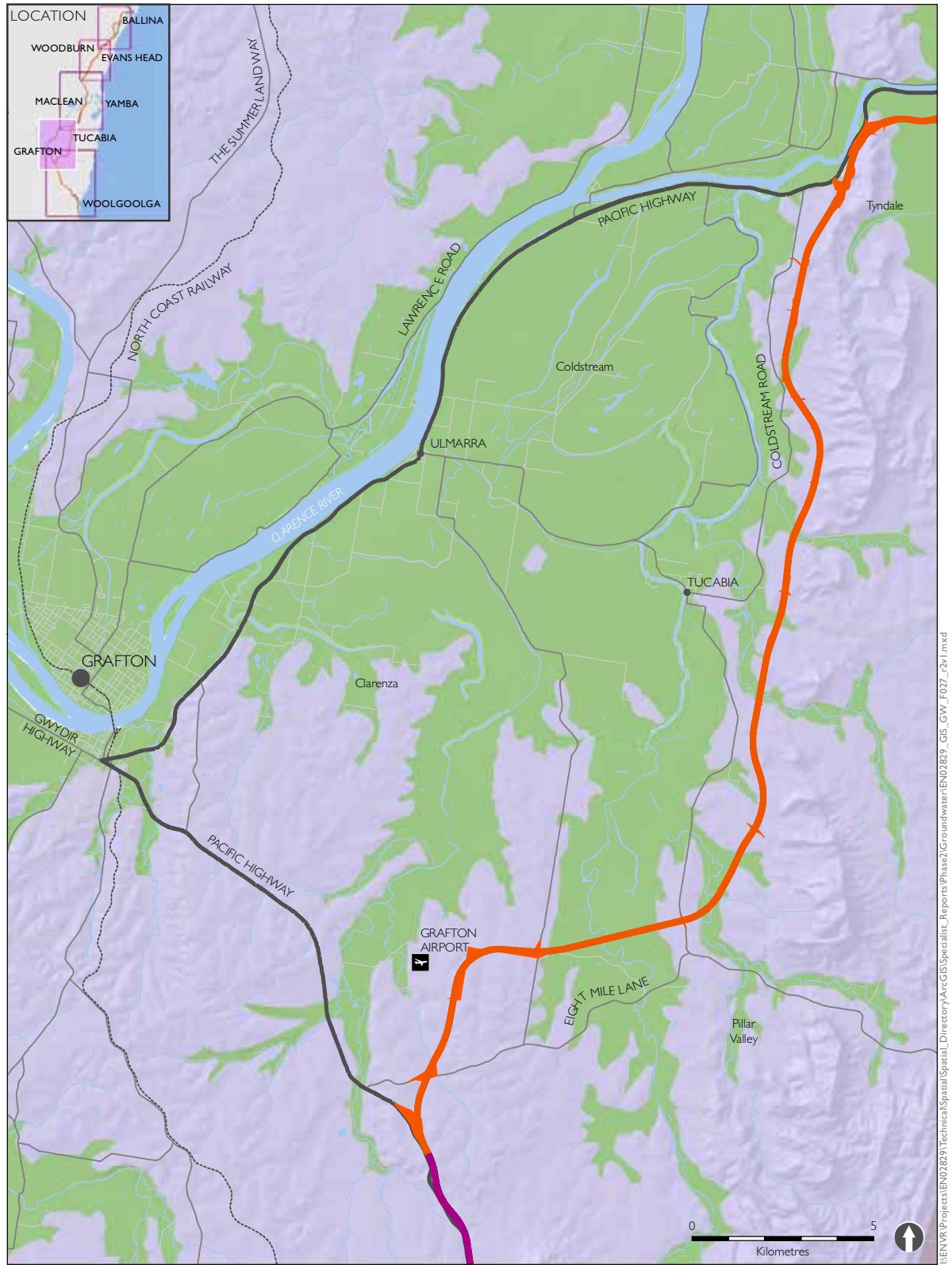
Figure A2-11 Groundwater management units


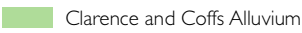






- | | | | | | |
|--|---------------------------------------|--|-----------------------------|--|-----------------------------|
| | The project | | Clarence Coastal Sands | | Coffs Harbour Coastal Sands |
| | Upgrade completed to dual carriageway | | Clarence and Coffs Alluvium | | Coffs Harbour Metasediments |
| | Upgrade under construction | | Clarence-Moreton Basin | | New England Fold Belt |
| | Existing Pacific Highway | | | | |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

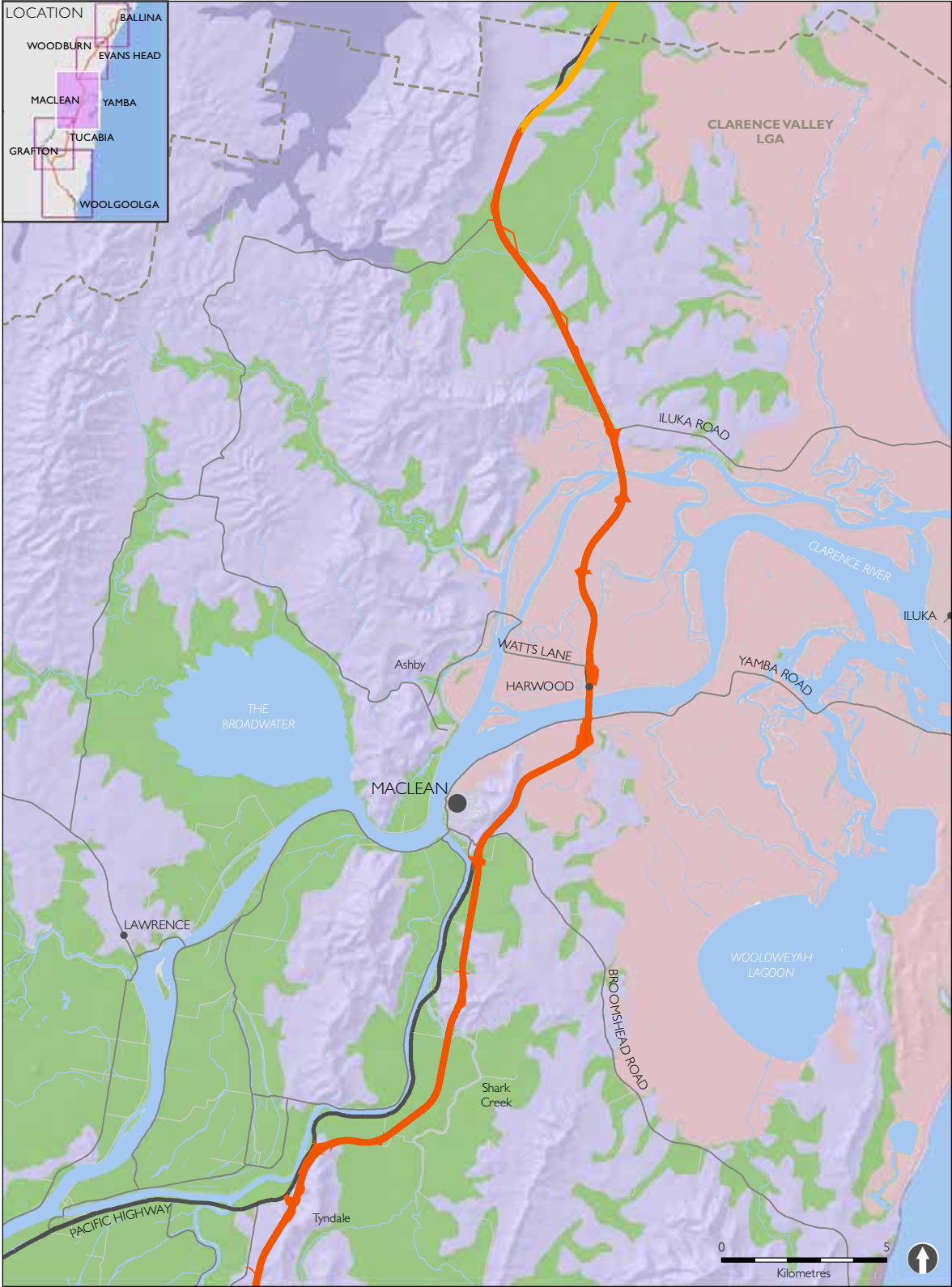
Figure A2-12 Groundwater management units



- | | |
|---|--|
|  The project |  Clarence and Coffs Alluvium |
|  Upgrade completed to dual carriageway |  Clarence-Moreton Basin |
|  Existing Pacific Highway |  Coffs Harbour Metasediments |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

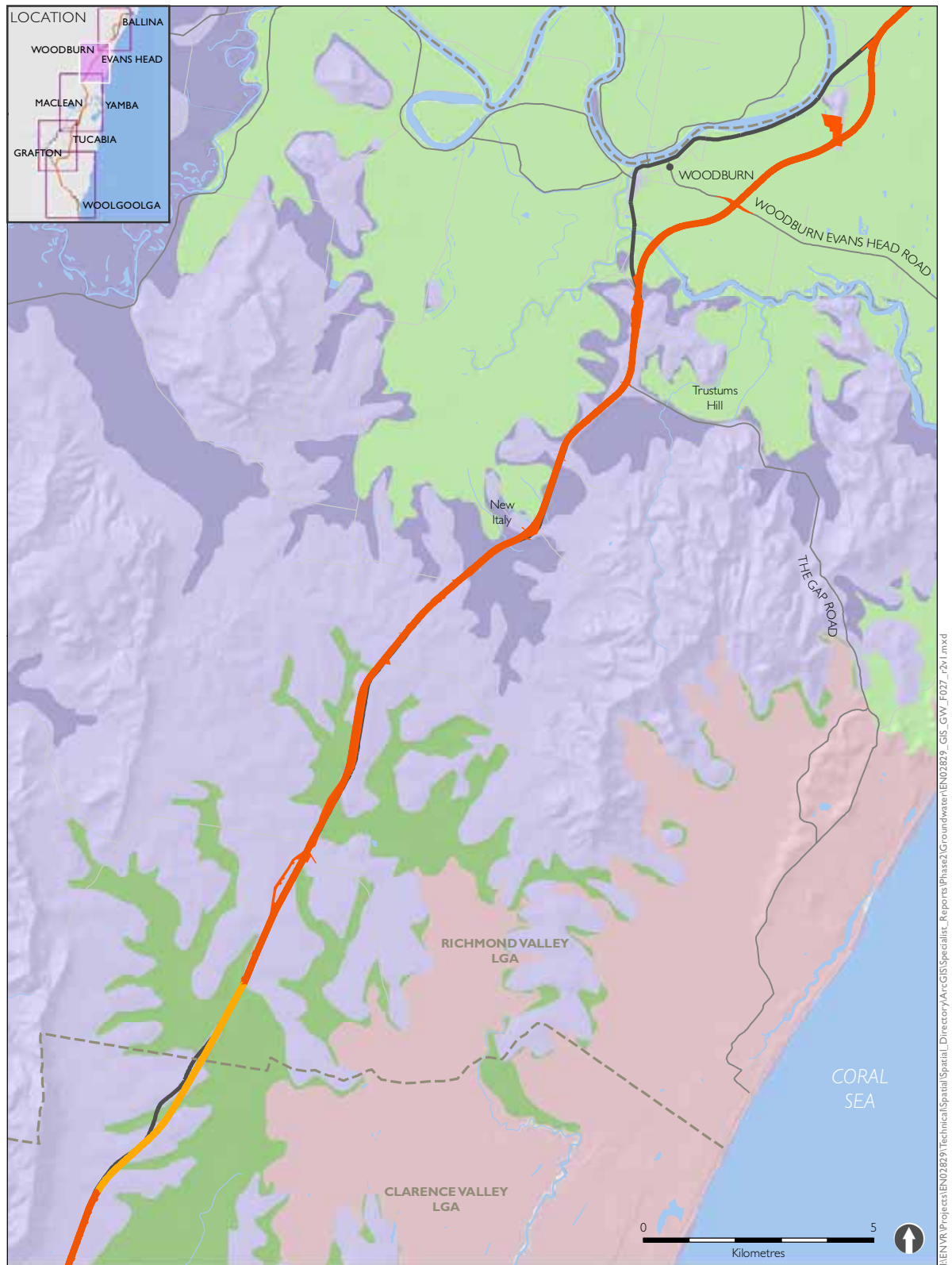
Figure A2-13 Groundwater management units



- The project
 - Upgrade under construction
 - Existing Pacific Highway
- | | | |
|---|---|--|
| Groundwater management unit | | |
| ■ Clarence Coastal Sands | ■ Coffs Harbour Metasediments | |
| ■ Clarence and Coffs Alluvium | ■ Richmond River Alluvium | |
| ■ Clarence-Moreton Basin | | |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

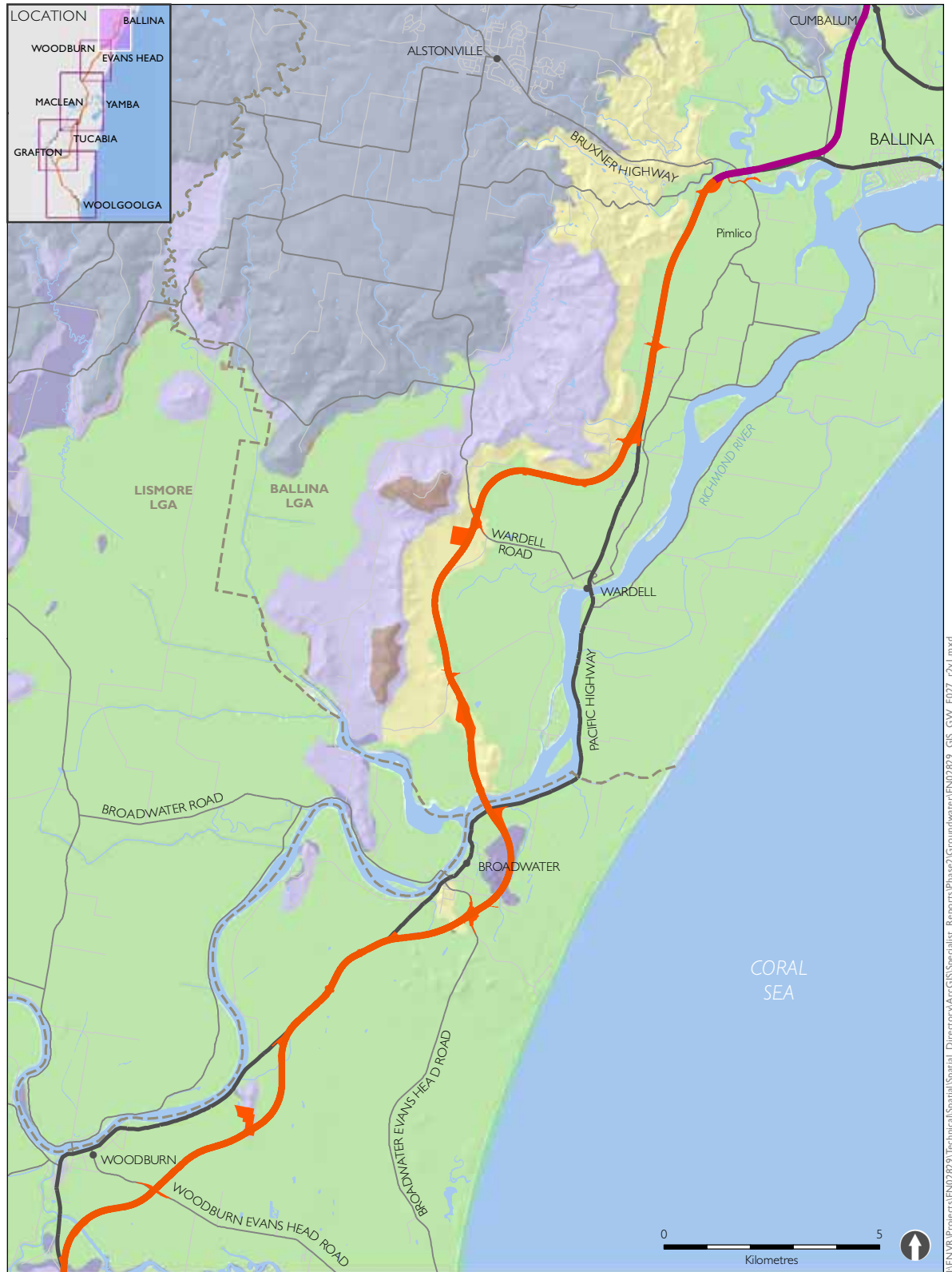
Figure A2-14 Groundwater management units



- | | | |
|----------------------------|-----------------------------|-------------------------|
| The project | Groundwater management unit | Richmond Coastal Sands |
| Upgrade under construction | Clarence Coastal Sands | Richmond River Alluvium |
| Existing Pacific Highway | Clarence and Coffs Alluvium | Clarence-Moreton Basin |
| | Clarence-Moreton Basin | |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

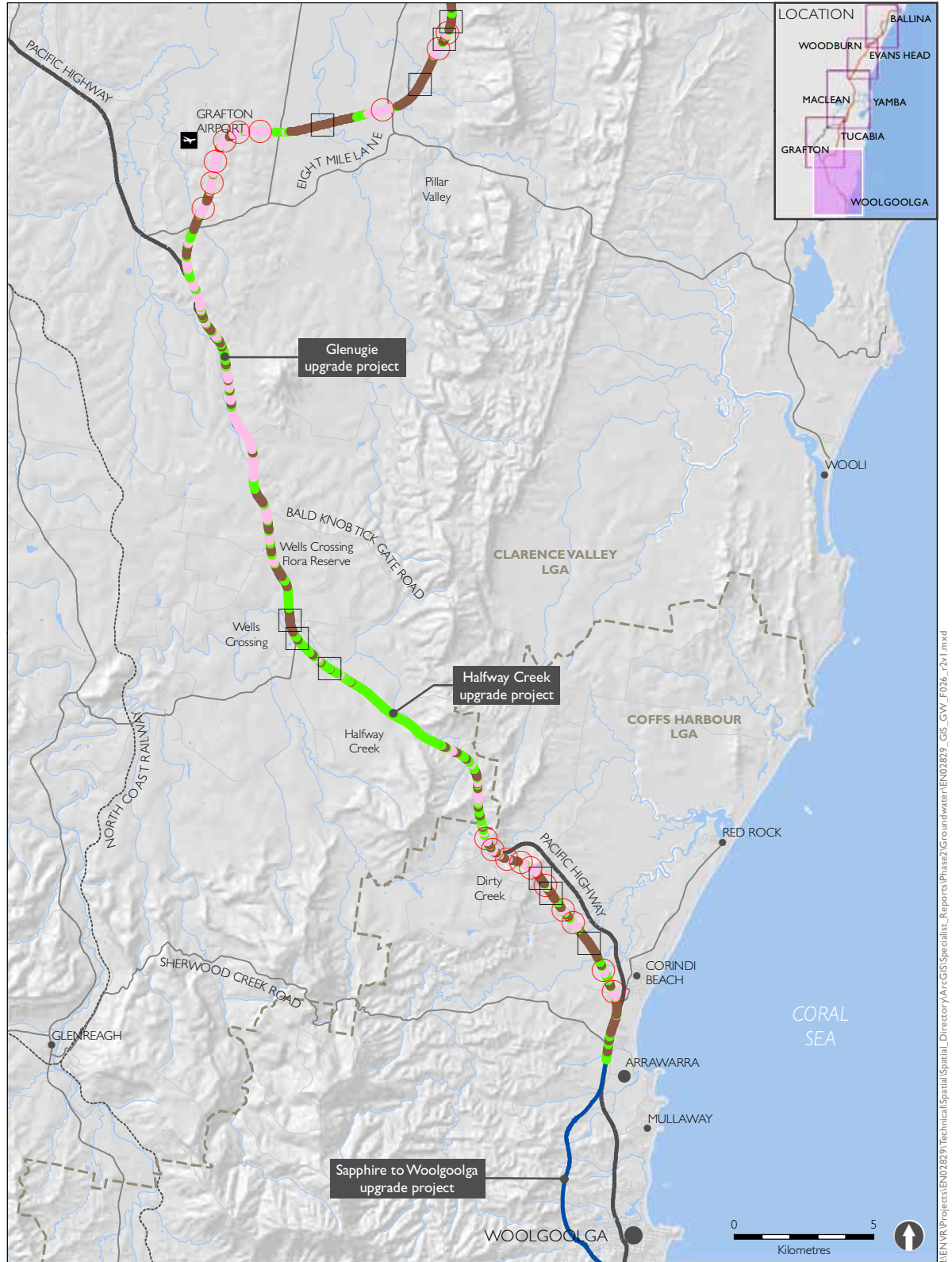
Figure A2-15 Groundwater management units



- | | | |
|---------------------------------------|------------------------|----------------------------|
| The project | Alstonville Basalt | North Coast Fractured Rock |
| Upgrade completed to dual carriageway | Clarence-Moreton Basin | Richmond Coastal Sands |
| Existing Pacific Highway | New England Fold Belt | Richmond River Alluvium |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

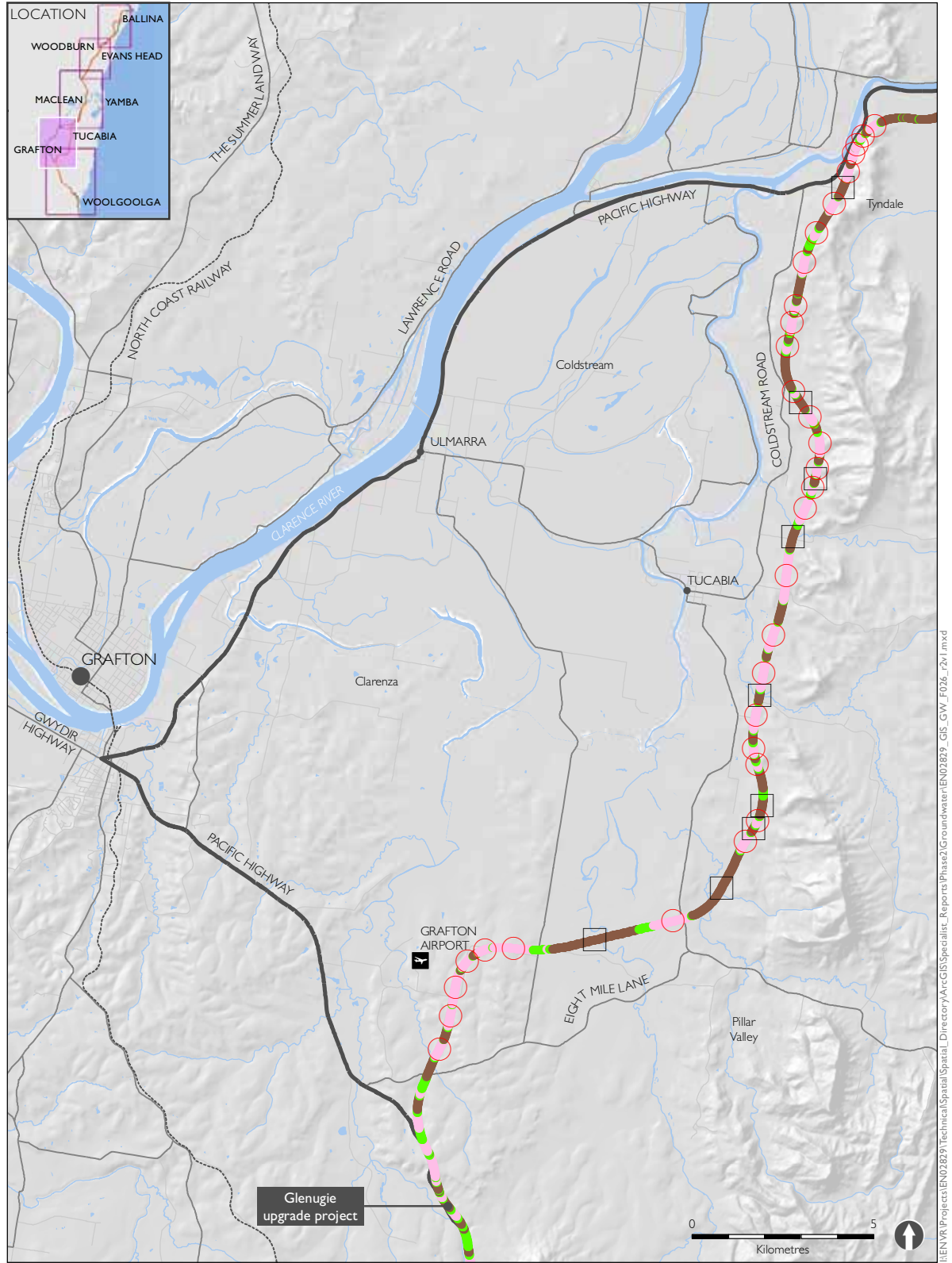
Figure A2-16 Design change



- | | | |
|--------------------------|----------------------|--|
| Pacific Highway upgrade | Design change | High potential impact design change |
| Existing Pacific Highway | No change | Cut |
| | Fill | Fill |
| | Cut | |

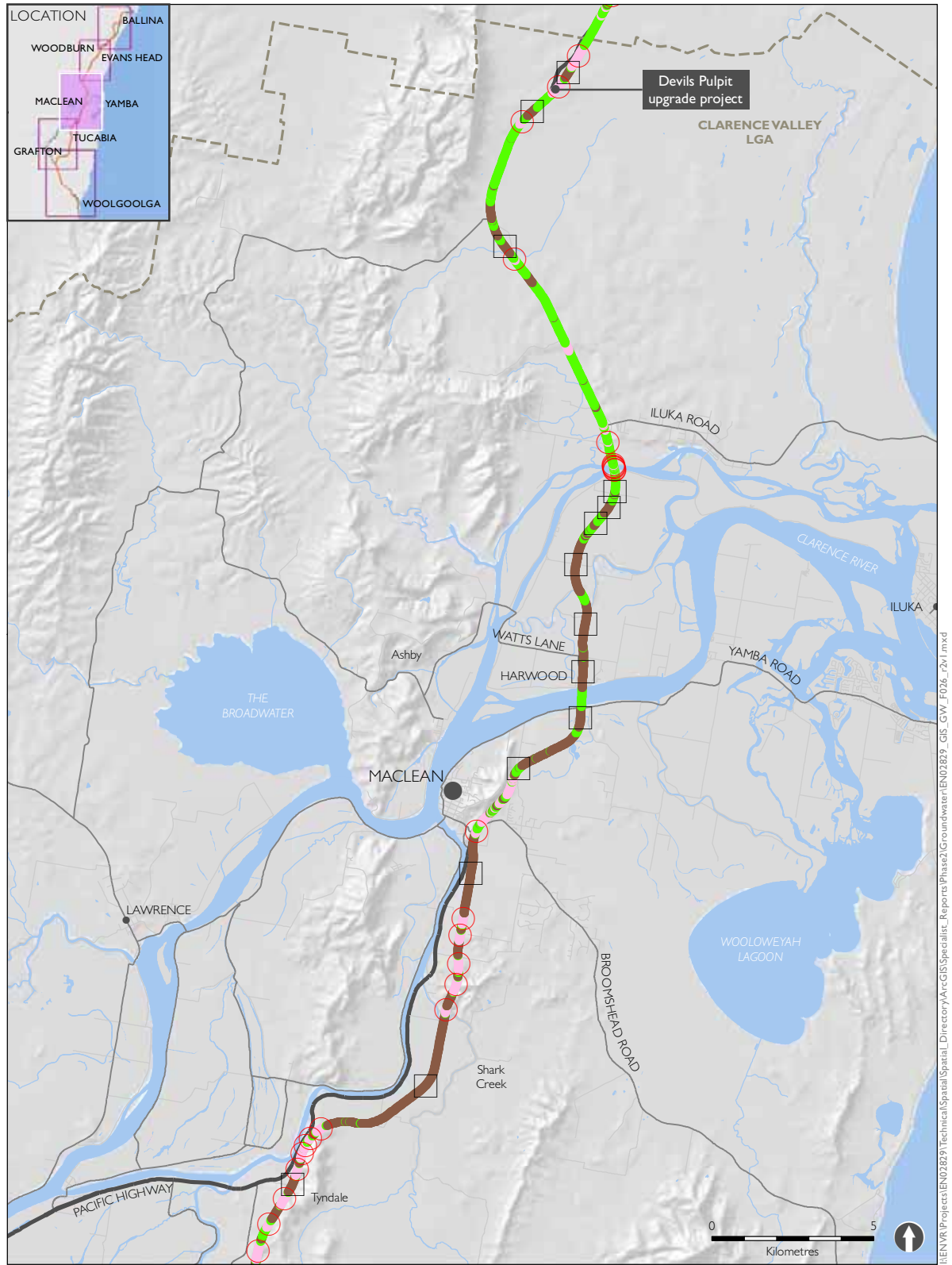
Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-17 Design change



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

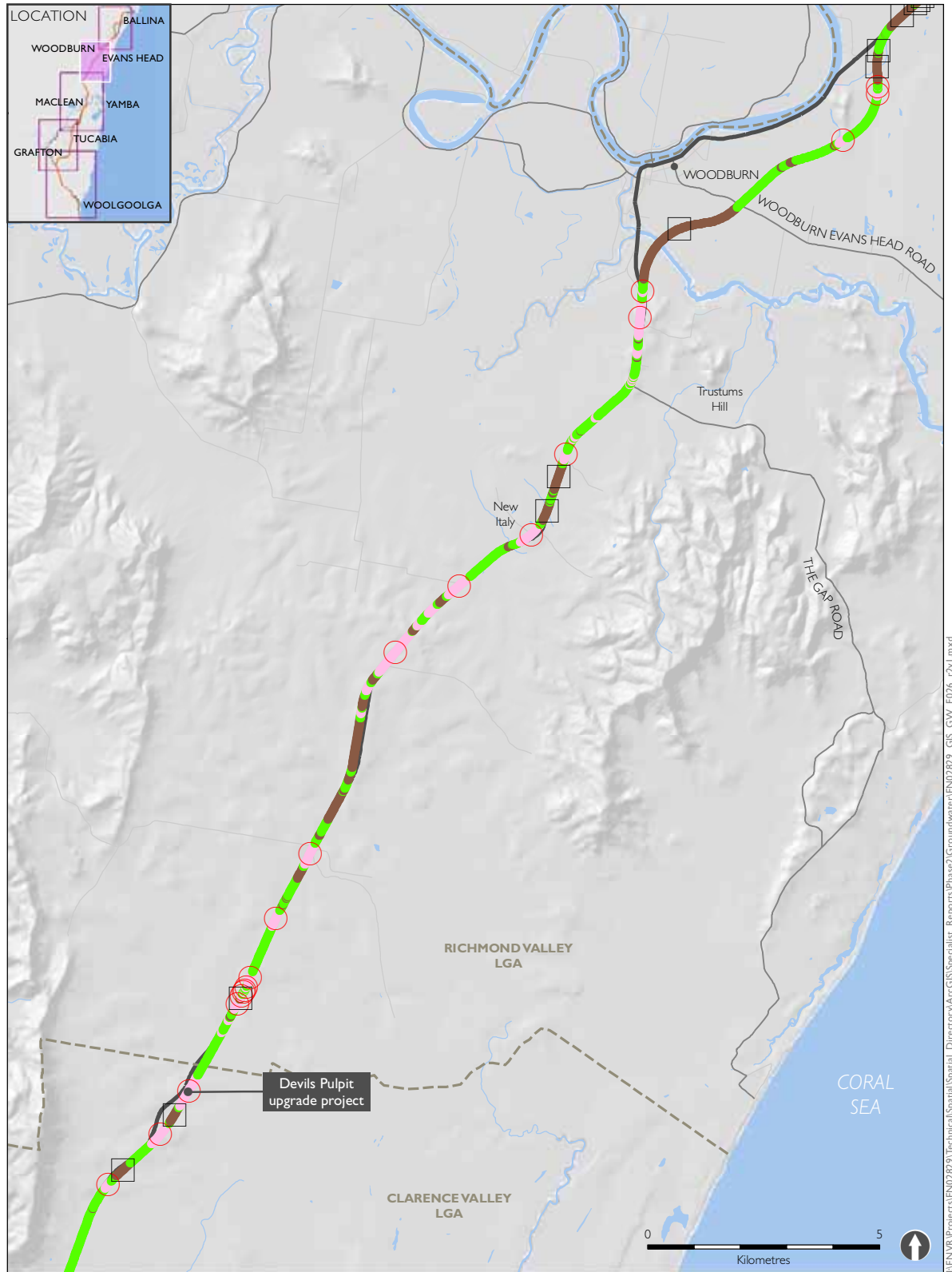
Figure A2-18 Design change



- | | | |
|--------------------------|----------------------|--|
| Pacific Highway upgrade | Design change | High potential impact design change |
| Existing Pacific Highway | No change | Cut |
| | Fill | Fill |
| | Cut | |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-19 Design change

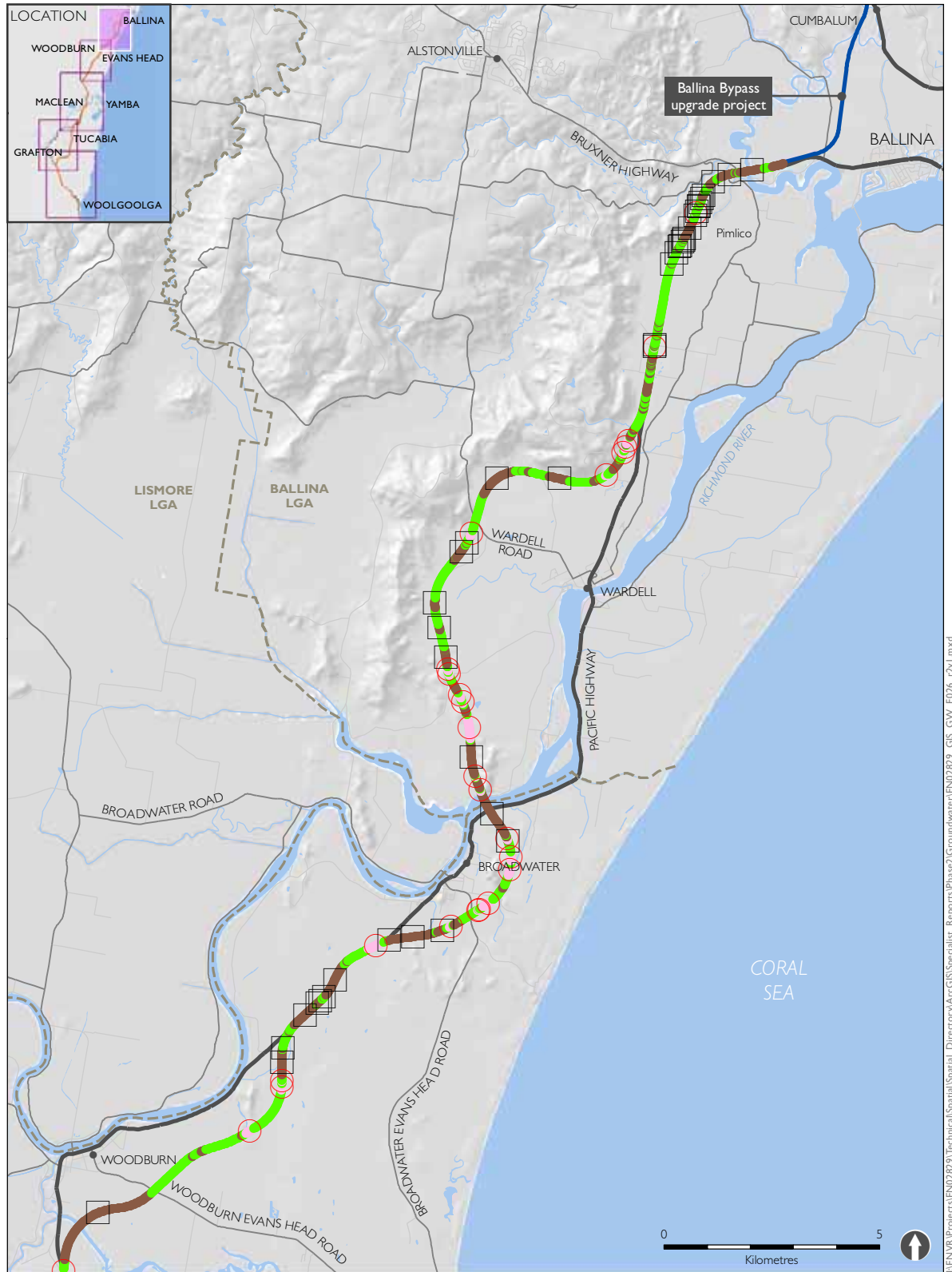


- | | | |
|--------------------------|----------------------|--|
| Pacific Highway upgrade | Design change | High potential impact design change |
| Existing Pacific Highway | No change | Cut |
| | Fill | Fill |
| | Cut | |

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Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

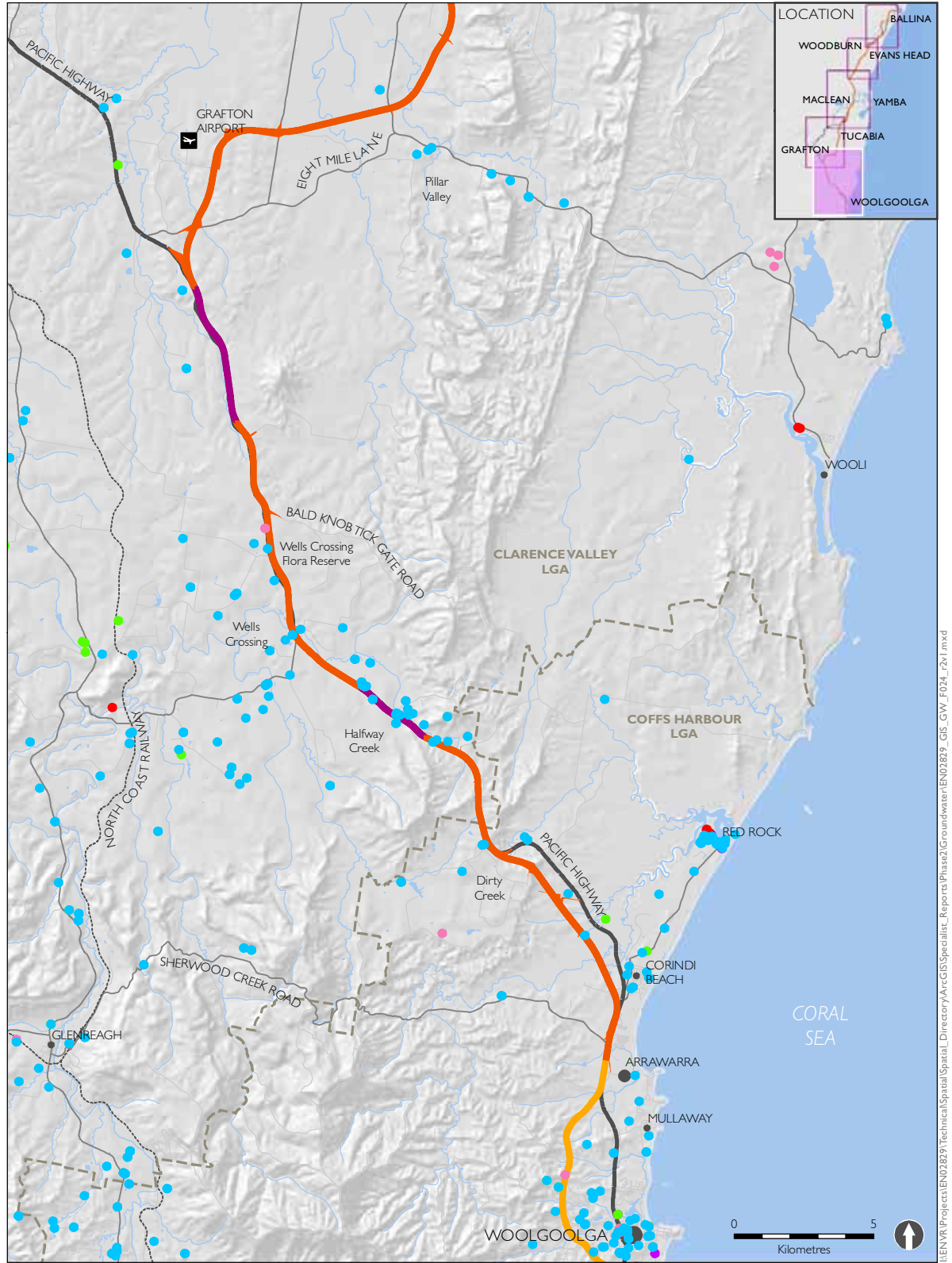
Figure A2-20 Design change



- | | | |
|--------------------------|----------------------|--|
| Pacific Highway upgrade | Design change | High potential impact design change |
| Existing Pacific Highway | No change | Cut |
| | Fill | Fill |
| | Cut | |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-21 Groundwater bore distribution in the region surrounding the project

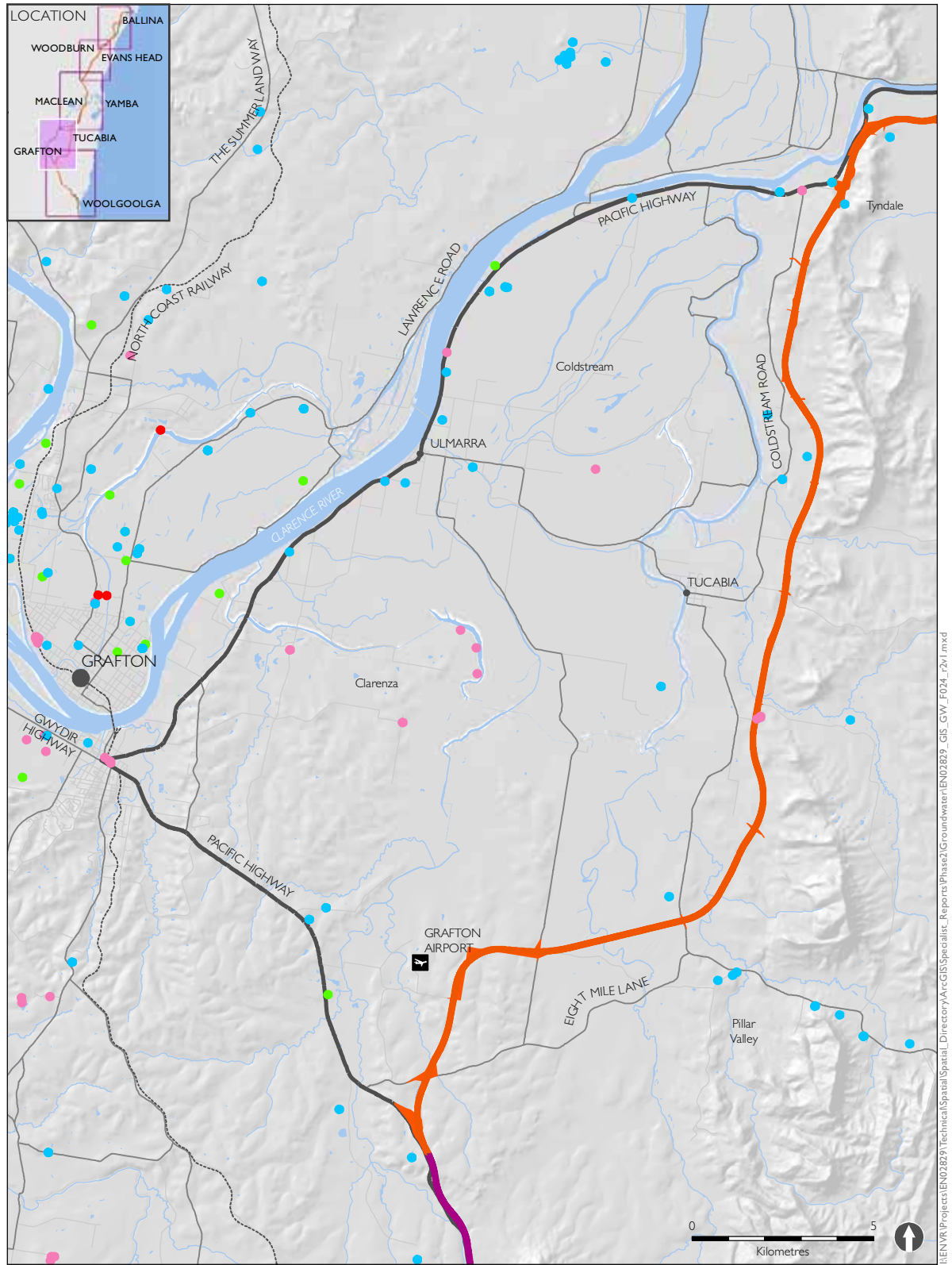


- | | | |
|---------------------------------------|-------------------------|--------------------------|
| The project | Industrial & commercial | Recreation (groundwater) |
| Upgrade completed to dual carriageway | Irrigation | Town water supply |
| Upgrade under construction | Not known | Stock & domestic |
| Existing Pacific Highway | | Test or monitoring |

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Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

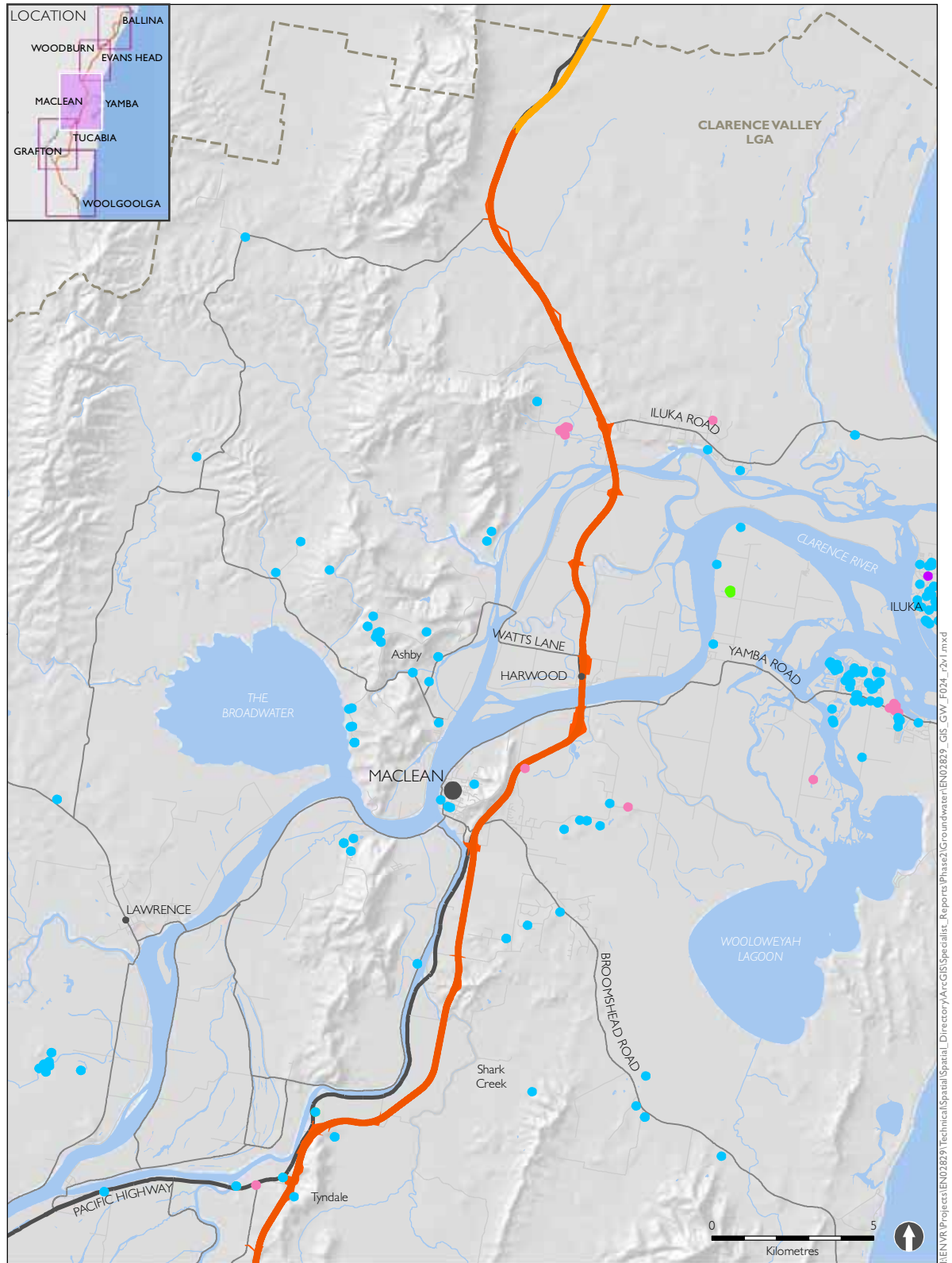
Figure A2-22 Groundwater bore distribution in the region surrounding the project



- | | | |
|---------------------------------------|-------------------------|--------------------------|
| The project | Industrial & commercial | Recreation (groundwater) |
| Upgrade completed to dual carriageway | Irrigation | Town water supply |
| Upgrade under construction | Not known | Stock & domestic |
| Existing Pacific Highway | Test or monitoring | |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

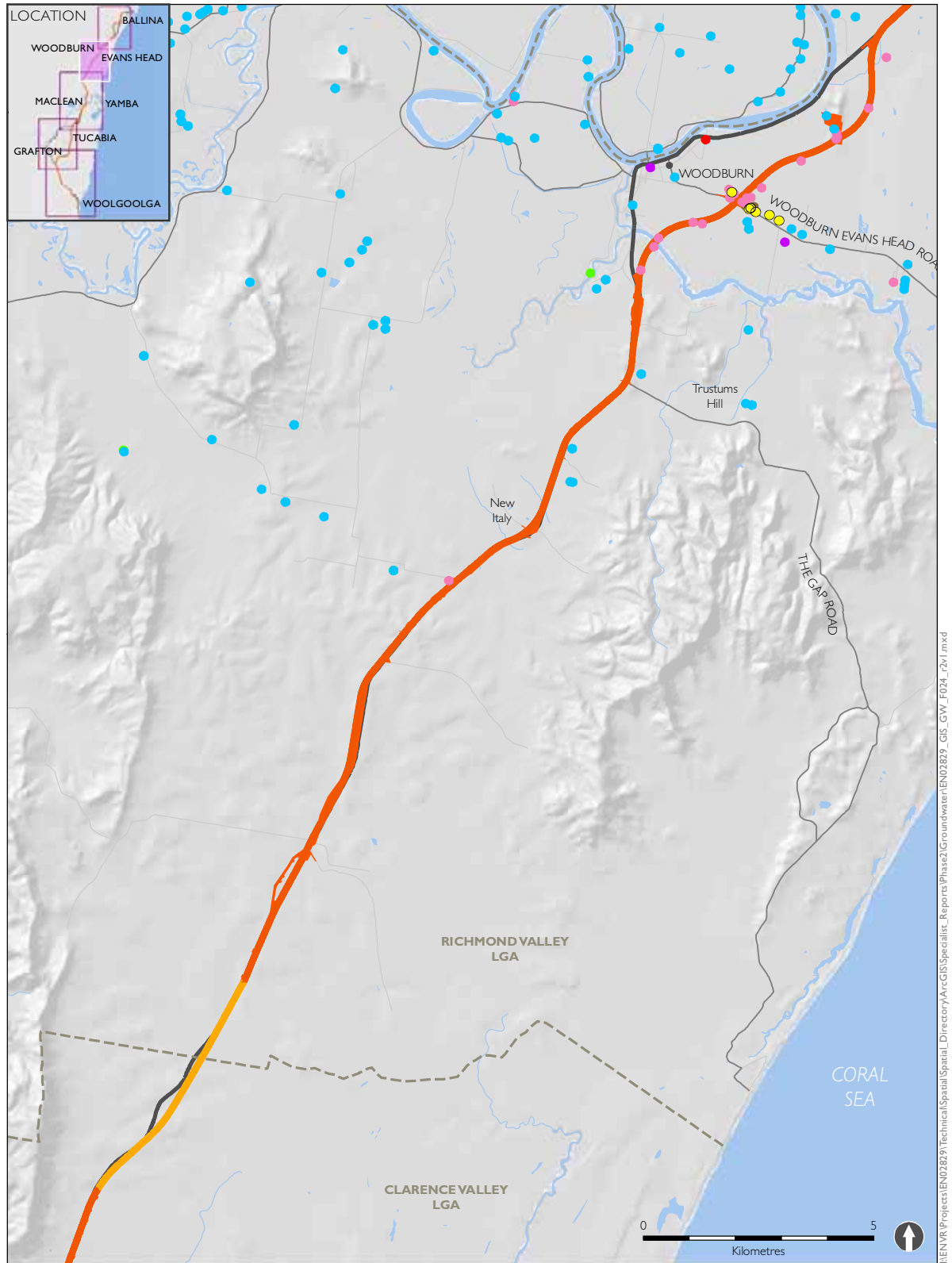
Figure A2-23 Groundwater bore distribution in the region surrounding the project



- | | | |
|---------------------------------------|-------------------------|--------------------------|
| The project | Industrial & commercial | Recreation (groundwater) |
| Upgrade completed to dual carriageway | Irrigation | Town water supply |
| Upgrade under construction | Not known | Stock & domestic |
| Existing Pacific Highway | | Test or monitoring |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-24 Groundwater bore distribution in the region surrounding the project

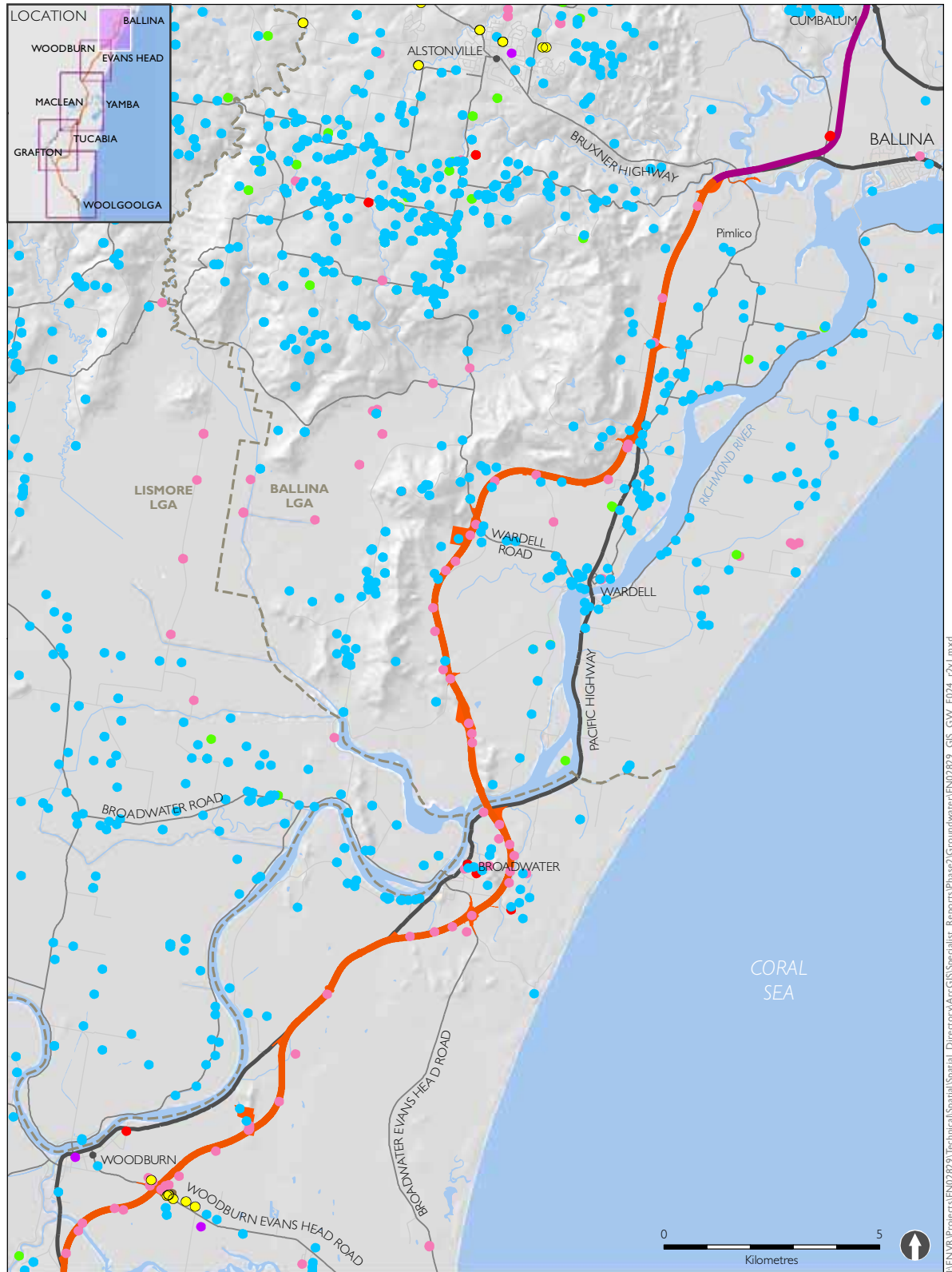


- | | | |
|---------------------------------------|-------------------------|--------------------------|
| The project | Bore type | Recreation (groundwater) |
| Upgrade completed to dual carriageway | Industrial & commercial | Town water supply |
| Upgrade under construction | Irrigation | Stock & domestic |
| Existing Pacific Highway | Not known | Test or monitoring |

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Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

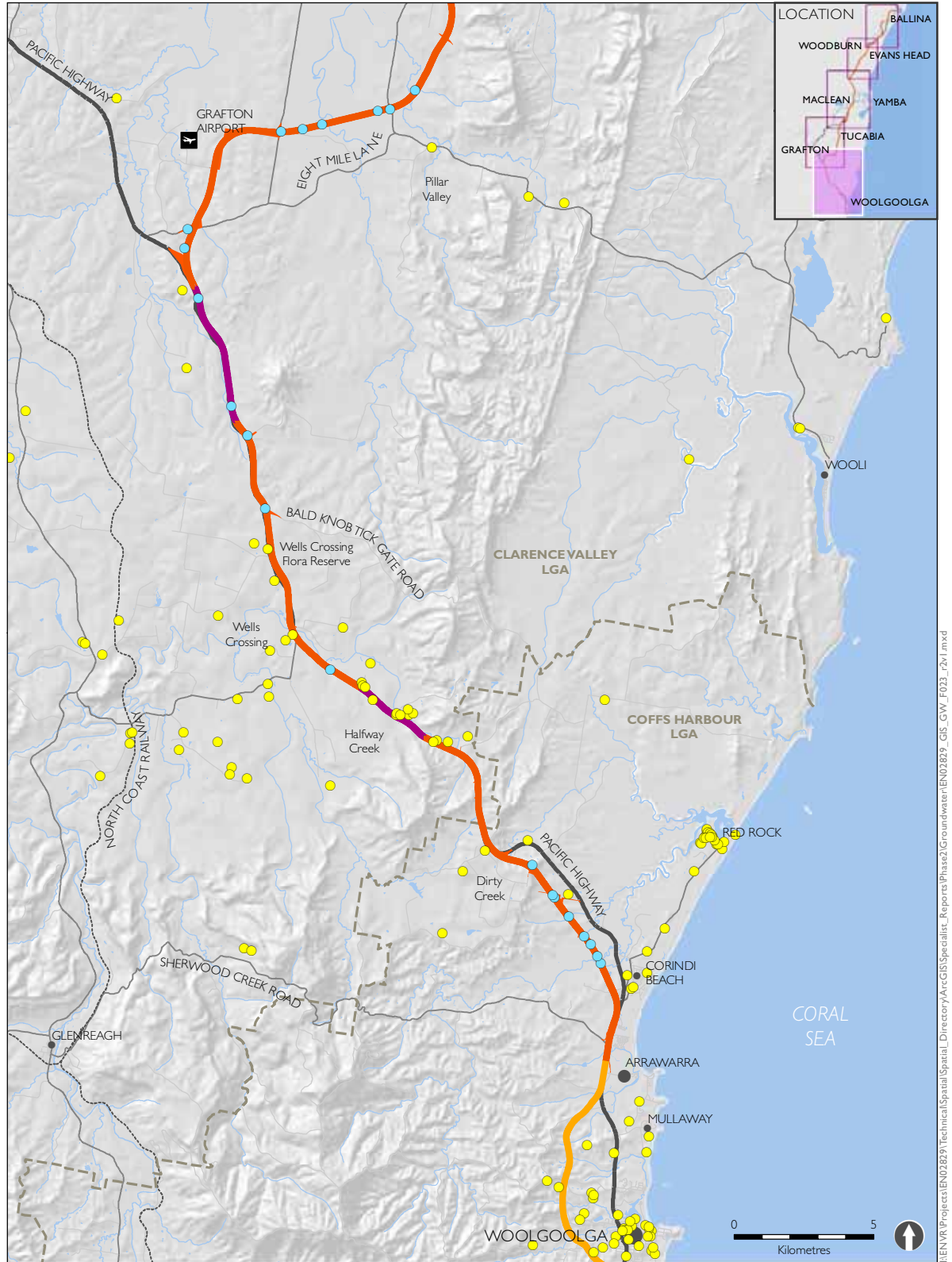
Figure A2-25 Groundwater bore distribution in the region surrounding the project



- | | | |
|---------------------------------------|-------------------------|--------------------------|
| The project | Industrial & commercial | Recreation (groundwater) |
| Upgrade completed to dual carriageway | Irrigation | Town water supply |
| Upgrade under construction | Not known | Stock & domestic |
| Existing Pacific Highway | Test or monitoring | |

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

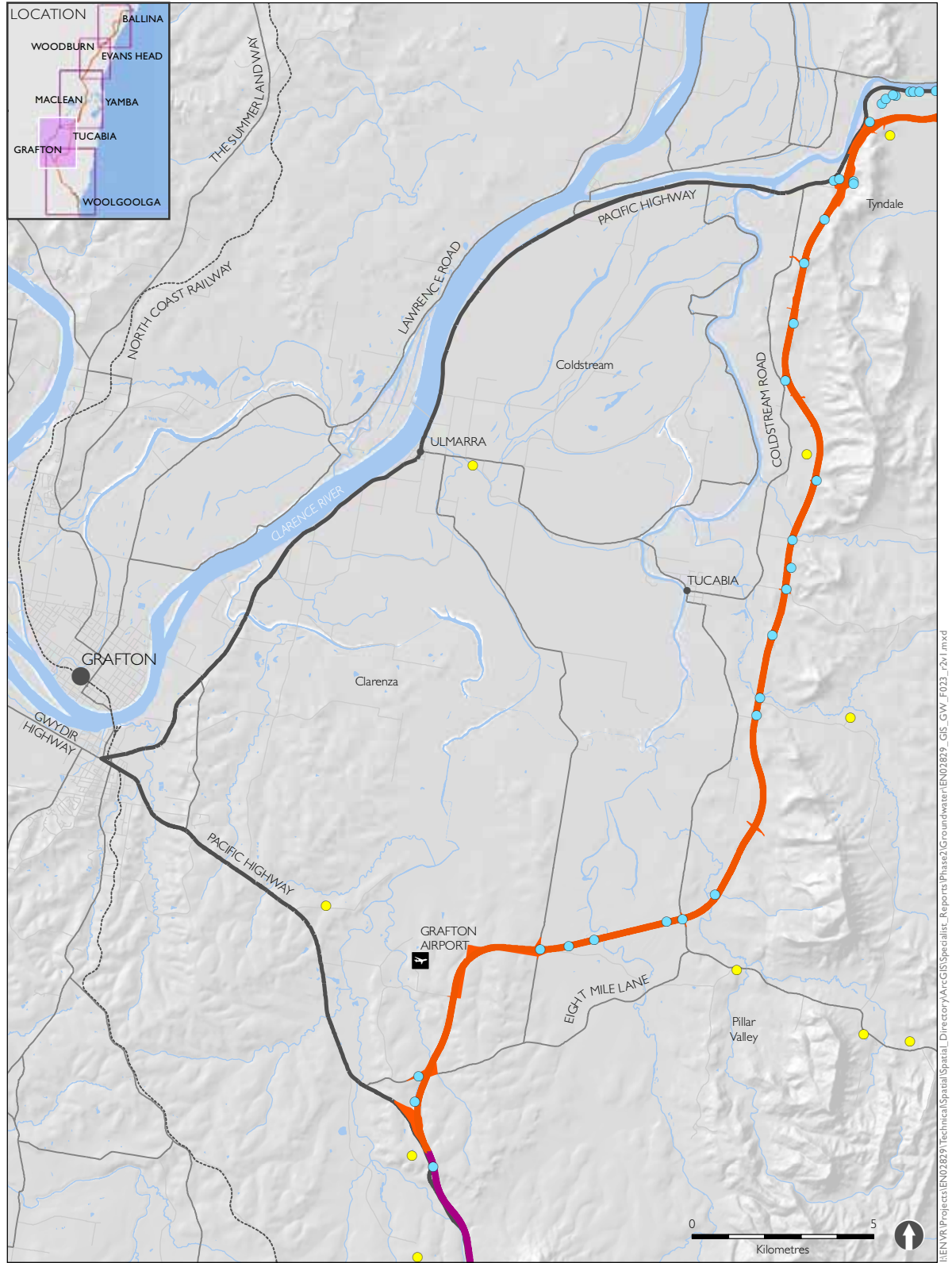
Figure A2-26 Bores used in the production of the groundwater potential impact assessment



- The project
- Upgrade completed to dual carriageway
- Upgrade under construction
- Existing Pacific Highway
- Report bore
- Pineena bore

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

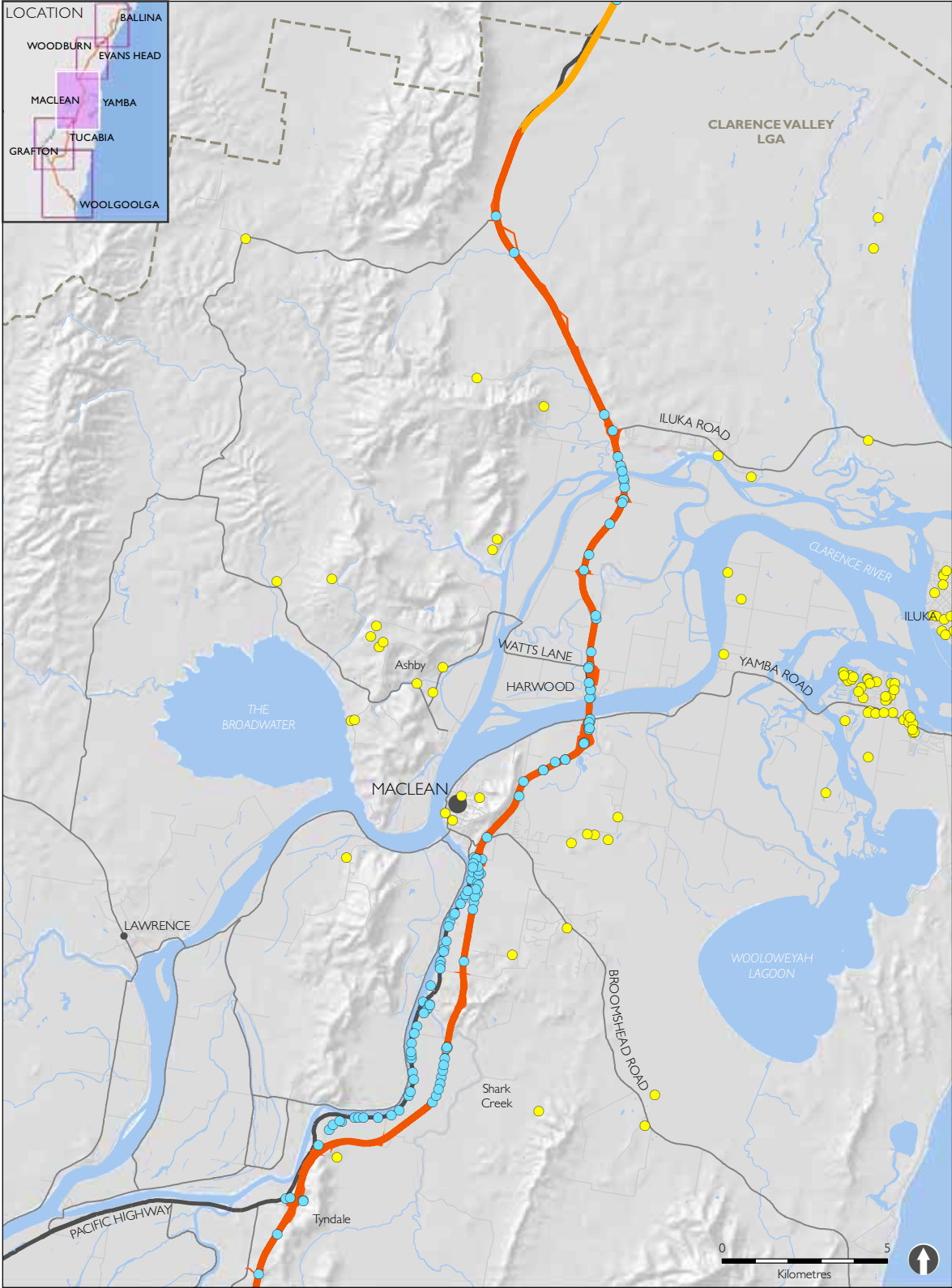
Figure A2-27 Bores used in the production of the groundwater potential impact assessment



- The project
- Upgrade completed to dual carriageway
- Upgrade under construction
- Existing Pacific Highway
- Report bore
- Pineena bore

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

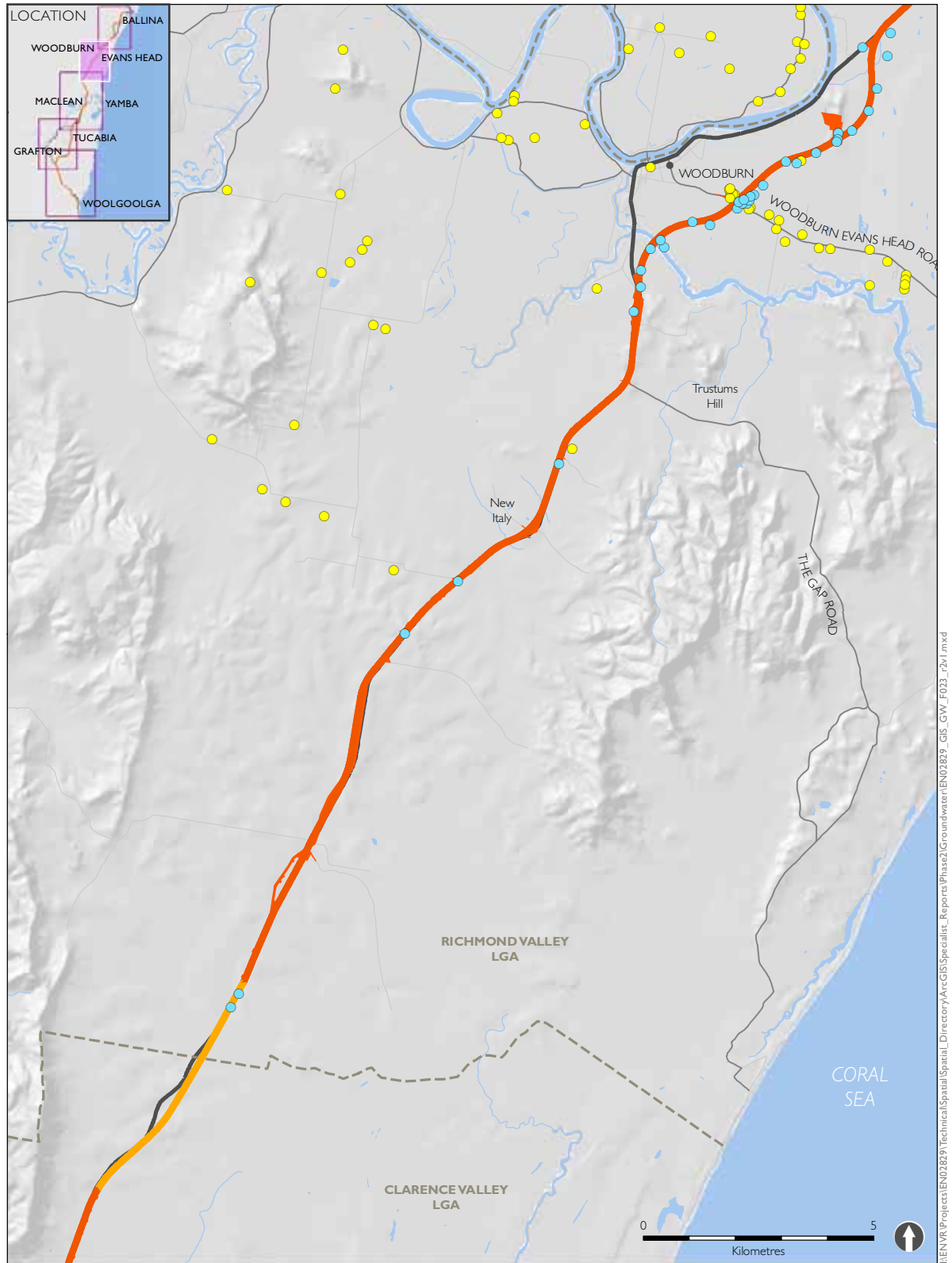
Figure A2-28 Bores used in the production of the groundwater potential impact assessment



- The project
- Upgrade completed to dual carriageway
- Upgrade under construction
- Existing Pacific Highway
- Report bore
- Pineena bore

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-29 Bores used in the production of the groundwater potential impact assessment

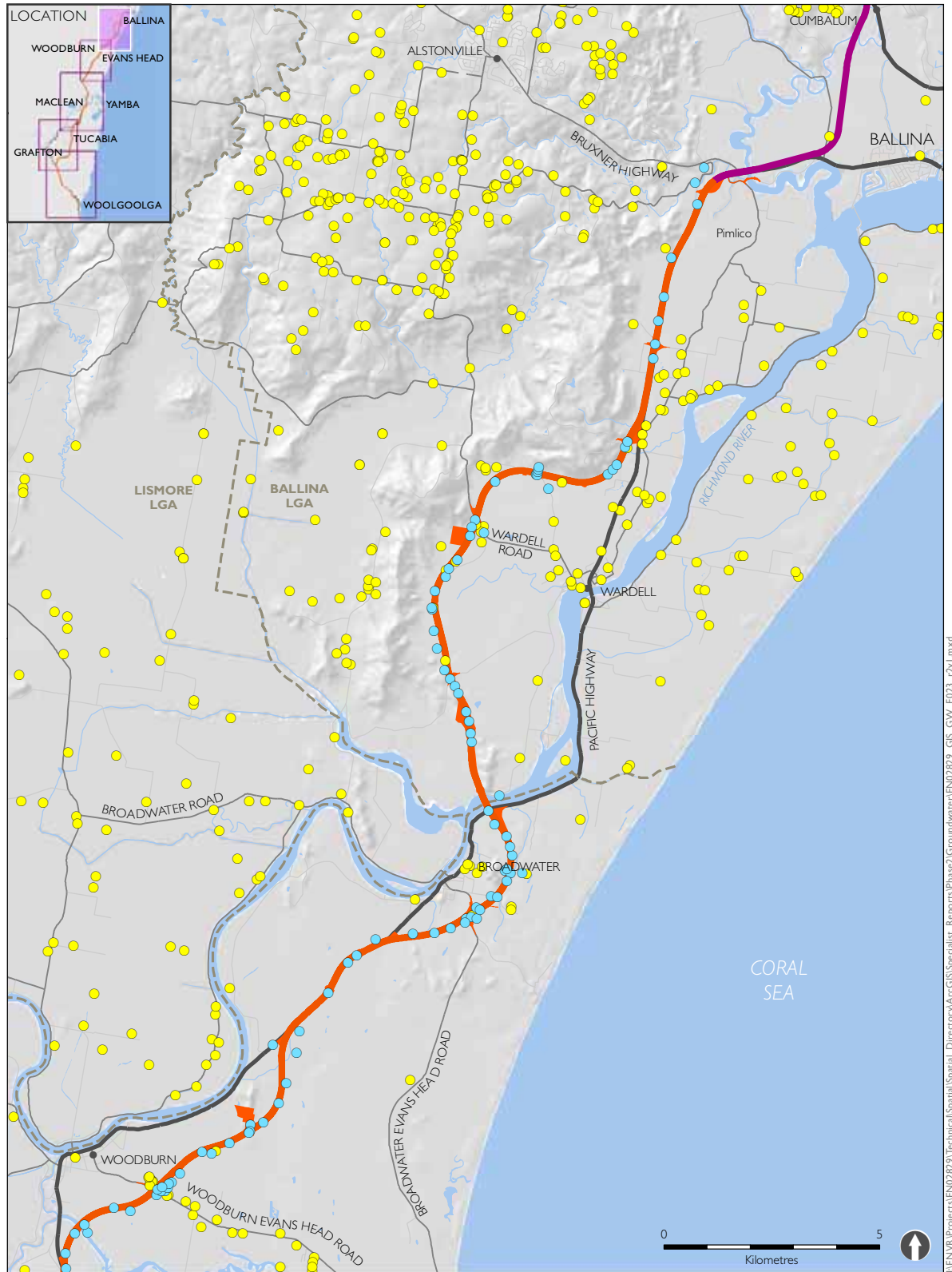


- The project
- Upgrade completed to dual carriageway
- Upgrade under construction
- Existing Pacific Highway
- Report bore
- Pineena bore

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Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

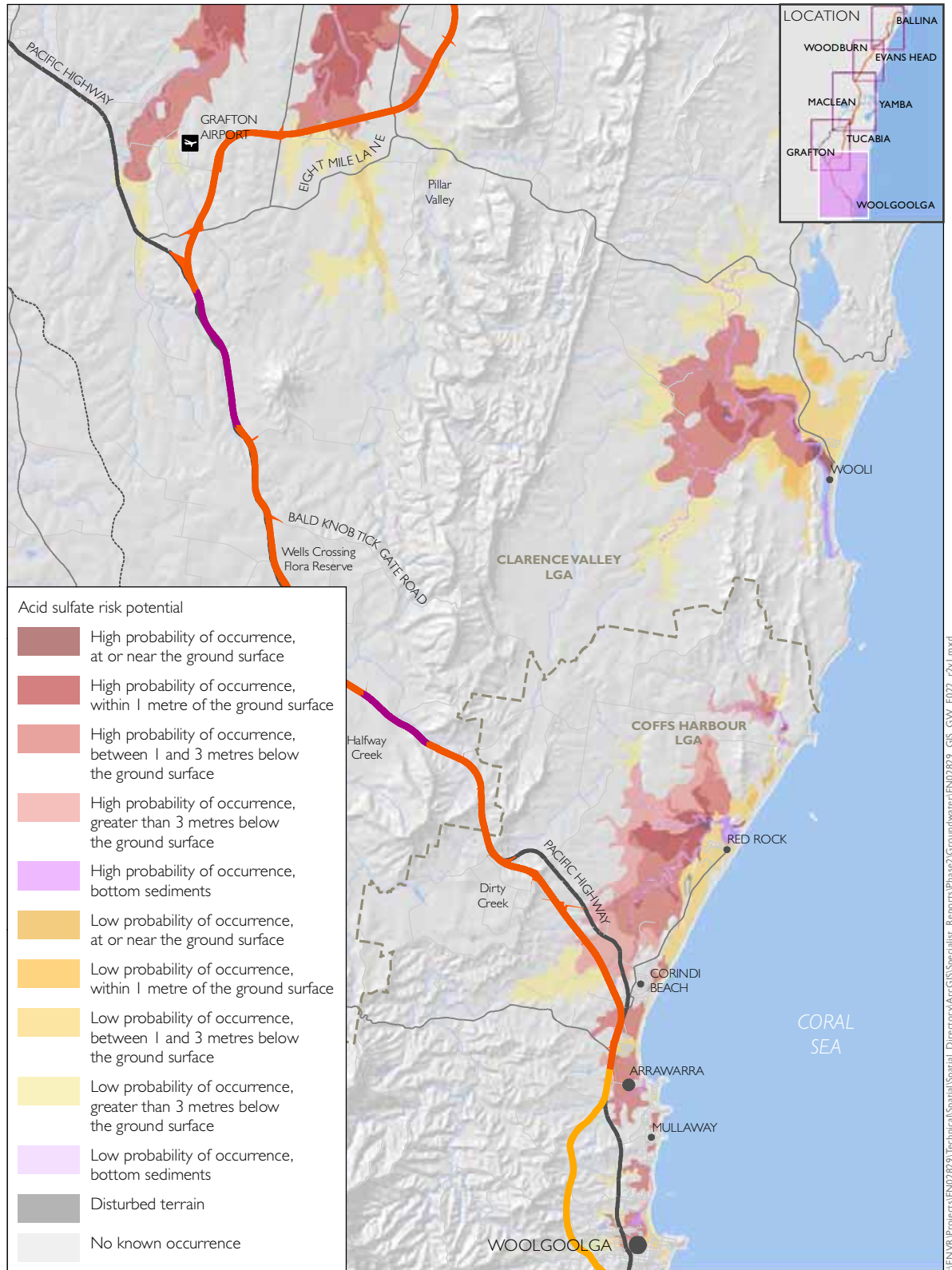
Figure A2-30 Bores used in the production of the groundwater potential impact assessment



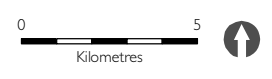
- The project
- Upgrade completed to dual carriageway
- Upgrade under construction
- Existing Pacific Highway
- Report bore
- Pineena bore

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-31 Acid-sulfate soil risk map of the project

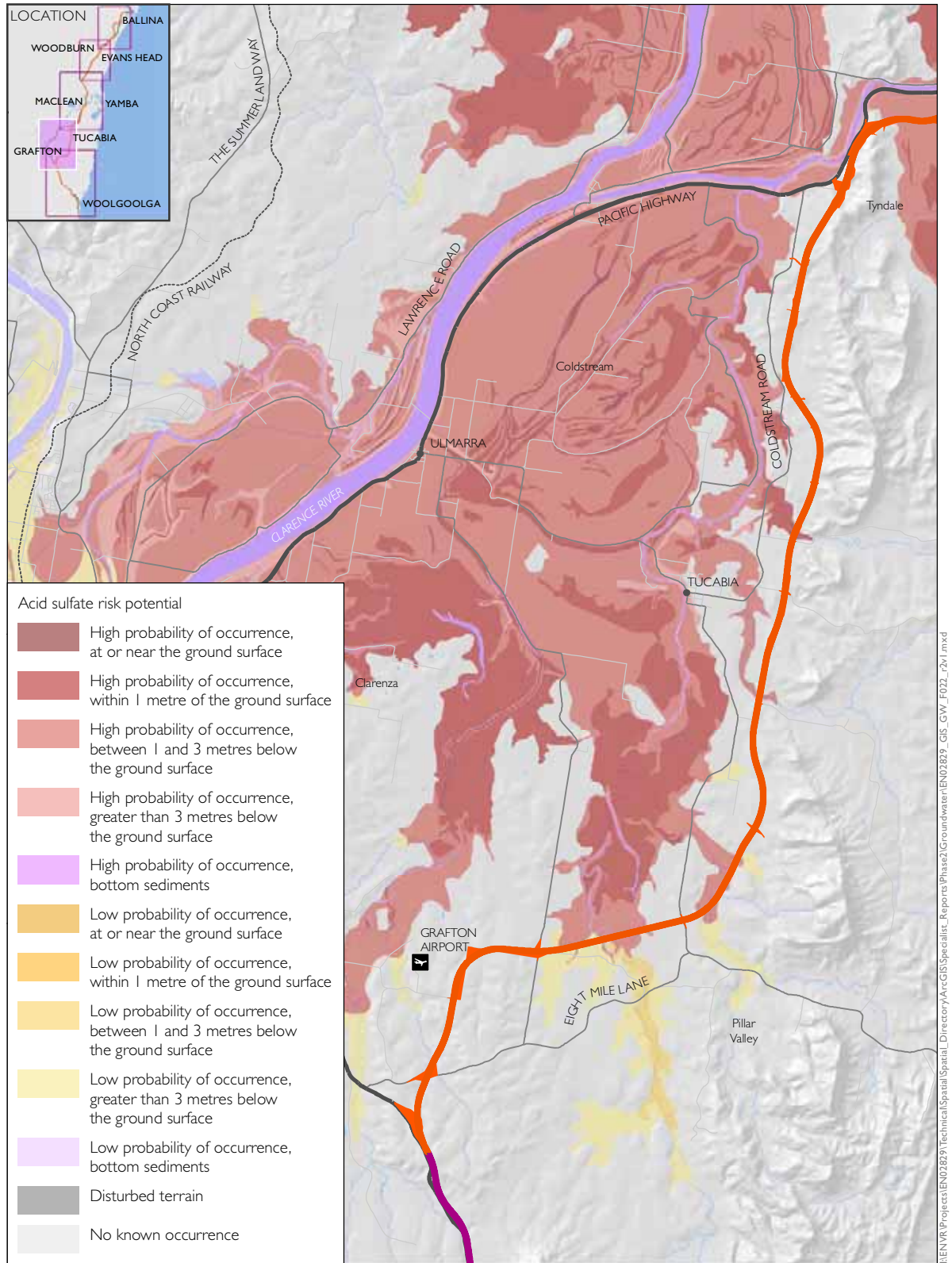


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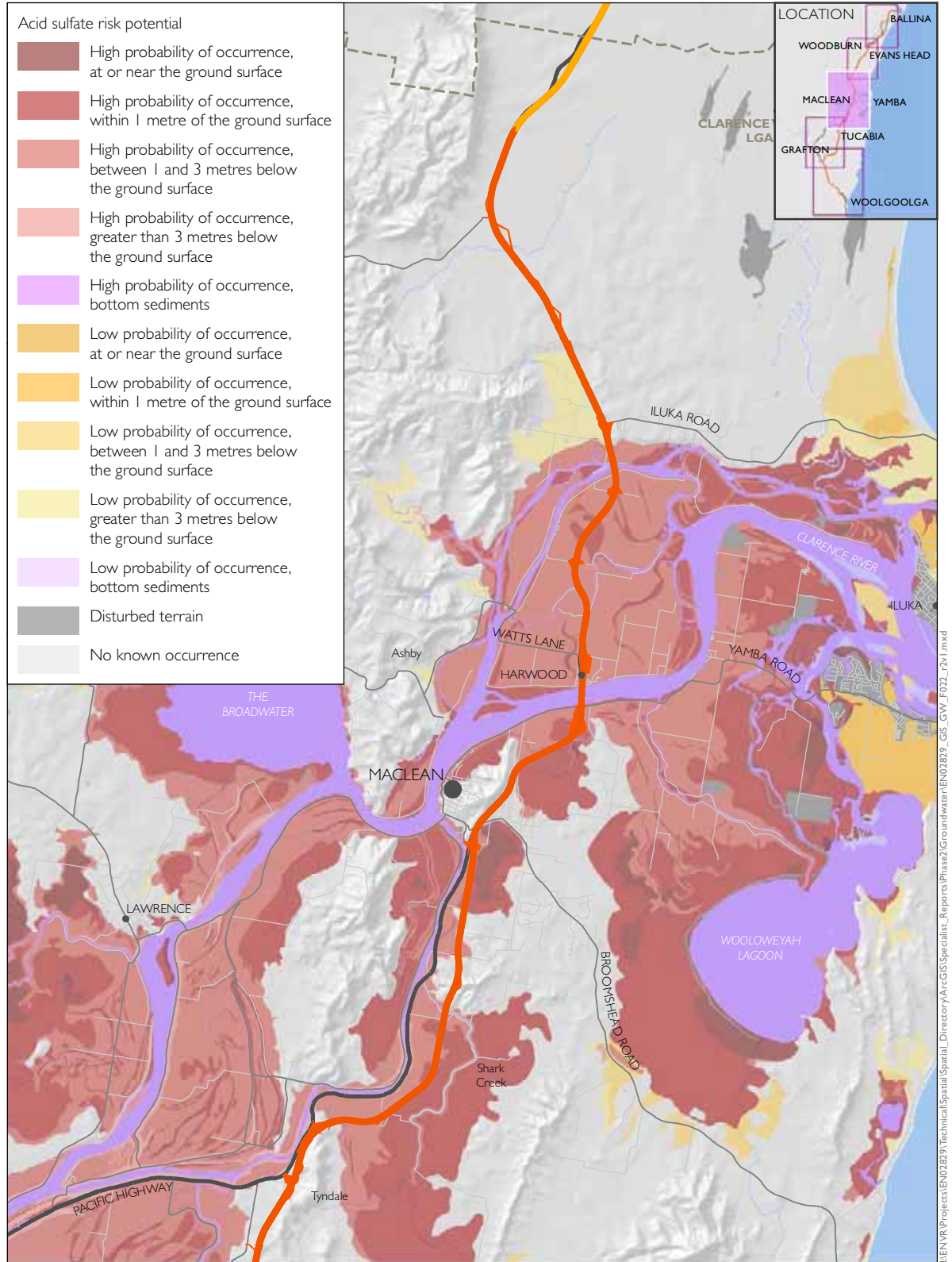
Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-32 Acid-sulfate soil risk map of the project



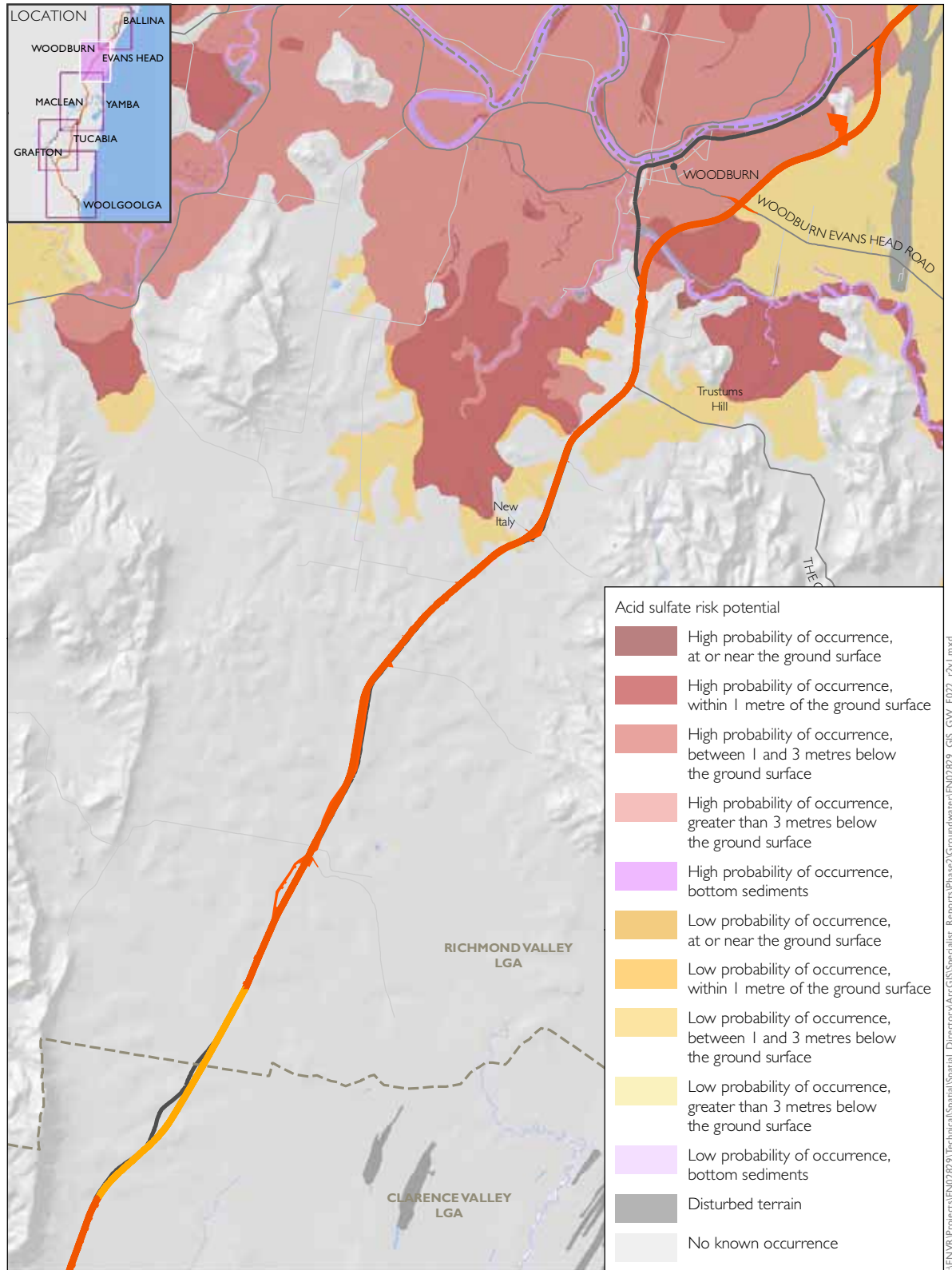
Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-33 Acid-sulfate soil risk map of the project



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

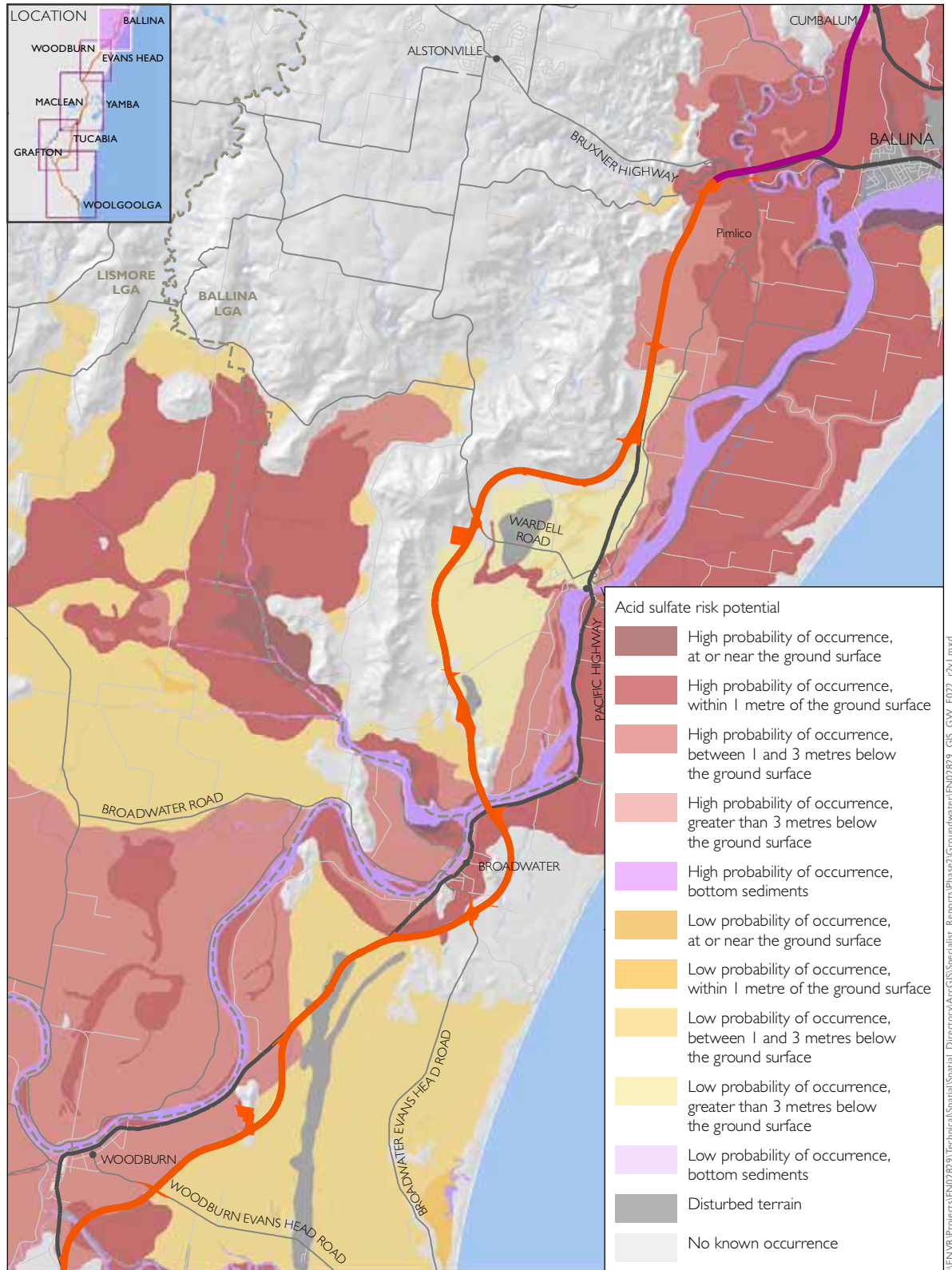
Figure A2-34 Acid-sulfate soil risk map of the project



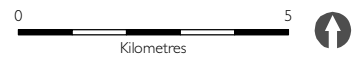
- The project
- Upgrade completed to dual carriageway
- Upgrade under construction
- Existing Pacific Highway

Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

Figure A2-35 Acid-sulfate soil risk map of the project



- The project
- Upgrade completed to dual carriageway
- Upgrade under construction
- Existing Pacific Highway



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Appendix B Register of cuts and potential groundwater impacts

The primary potential impact to groundwater at all cut locations is intersection with the water table resulting in ingress of groundwater to cut faces and the works environment. Table B-7-1 lists the 157 cuts currently in the project and the potential construction impact rating. Cuts are classified according to the interaction with the groundwater surface.

Type A cuts occur where the design profile after the cut is predicted to be below the level of the groundwater table. In these circumstances, engineered mitigation measures would need to be put in place to divert groundwater away from the site. These are designated here Type A cuts, following the convention adopted for the Tintinbar to Ewingsdale Groundwater Assessment (Golders and Associates, 2008). High potential impact occurs when the watertable is expected to be at or close to the design surface, or seasonal fluctuations in the watertable, or prolonged wet periods raise watertables.

During drier periods, however, watertable would drop and the cut may be re-classified to a medium potential impact. This applies to groundwater tables below 2 metres from the ground surface, but above 3 metres, and these are designated as Type B cuts. Low potential impacts occur where the water table is still relatively close to the surface, but is low enough (3 to 5 metres below ground) that there is unlikely to be an impact. Low and medium potential impact cuts are designated Type B, indicating that they require further and possibly on-going monitoring, but which are unlikely to require engineering intervention.

Cuts that have no potential impact are cited at locations where the watertable is expected to be sufficiently deep (greater than 5 metres) that there would be no impact at the location. These are designated Type C cuts.

Table B-7-1 Potential impact rating and cut type for all project cuts during the construction phase

Note: light grey shading denotes “out-of-scope – upgrade under construction”; dark grey denotes “bridge over North Arm of Clarence River”

Station		Length (m)	Max height cut (m)	Min distance to water table (m)	Potential construction impact	Cut type*	Coordinates	
Start	Finish						Easting	Northing
2.3	2.7	370	-13	-7.4	High	A	518076	6677552
3.0	3.0	50	-1.1	4.1	Low	B	517855	6678045
3.2	3.5	250	-3	1.2	High	A	517725	6678338
5.2	5.6	391	-7	-1.6	High	A	516644	6680020
5.9	6.1	170	-5	0.6	High	A	516279	6680484
7.0	7.1	100	-4	-0.8	High	A	515650	6681362
7.6	8.1	510	-44	-40.3	High	A	515120	6682009

Upgrading the Pacific Highway – Woolgoolga to Ballina Upgrade

Station		Length (m)	Max height cut (m)	Min distance to water table (m)	Potential construction impact	Cut type*	Coordinates	
Start	Finish						Easting	Northing
8.2	8.4	198	-7	-1.4	High	A	514776	6682188
8.8	8.9	110	-10	-1.6	High	A	514254	6682324
9.1	9.2	100	-6	2.1	Medium	B	513943	6682483
9.4	9.5	130	-8	-0.1	High	A	513742	6682663
9.8	10.0	240	-18	-8.8	High	A	513505	6683054
10.1	10.2	90	-2	7.4		C	513440	6683285
10.5	10.5	50	-2	6.7		C	513354	6683634
11.2	11.3	60	-3	5.6		C	513240	6684392
11.3	11.7	380	-4	3.8	Low	B	513235	6684642
11.9	12.1	150	-5	3.0	Medium	B	513218	6685132
12.6	12.7	110	-2	6.0		C	512963	6685743
13.5	13.7	210	-3	5.8		C	512224	6686235
18.2	18.2	0	-1	2.9	Medium	B	508437	6688807
18.2	18.2	0	-1	2.9	Medium	B	508410	6688824
18.3	18.3	0	-1	2.8	Medium	B	508344	6688865
18.3	18.3	0	-1	2.8	Medium	B	508318	6688881
18.4	18.4	90	-1	2.5	Medium	B	508259	6688918
19.3	19.5	140	-2	3.8	Low	B	507442	6689506
23.3	23.6	270	-3	5.0	Low	B	505879	6693056
24.1	24.4	320	-3	6.5		C	505754	6693886
24.8	25.4	520	-6	4.0	Low	B	505647	6694739
26.5	27.3	850	-8	2.7	Medium	B	505175	6696416
27.5	29.2	1690	-9	2.5	Medium	B	504733	6697722
29.5	29.7	280	-7	3.3	Low	B	504354	6698897
29.9	30.1	230	-3	7.7		C	504296	6699313
30.2	30.7	430	-5	6.0		C	504237	6699729
31.8	32.0	230	-4	8.4		C	503774	6701114
32.5	32.6	140	-3	10.0		C	503427	6701601
32.9	33.0	80	-3	10.4		C	503289	6702033
33.1	33.7	600	-10	3.3	Low	B	503220	6702402
33.8	34.1	340	-5	6.7		C	502990	6702965
34.5	34.9	410	-3	6.4		C	502789	6703653
35.4	35.6	150	-3	5.5		C	502872	6704462
36.5	37.0	510	-11	-3.8	High	A	503382	6705623
37.5	38.0	580	-10	-3.6	High	A	503683	6706541

Upgrading the Pacific Highway – Woolgoolga to Ballina Upgrade

Station		Length (m)	Max height cut (m)	Min distance to water table (m)	Potential construction impact	Cut type*	Coordinates	
Start	Finish						Easting	Northing
38.1	39.0	920	-11	-5.2	High	A	503822	6707319
39.1	39.6	430	-8	-2.8	High	A	504143	6708037
39.7	40.1	410	-10	-5.7	High	A	504633	6708356
40.2	41.3	1080	-7	-2.9	High	A	505414	6708393
41.7	41.7	60	-1	2.5	Medium	B	506372	6708366
44.7	45.7	1070	-8	-4.0	High	A	509803	6709143
48.1	48.6	520	-14	-11.1	High	A	511796	6711340
48.9	49.1	200	-6	-3.4	High	A	512140	6711909
50.5	50.7	150	-3	1.5	High	A	512116	6713460
50.9	51.2	290	-4	0.6	High	A	512020	6713894
51.6	52.3	740	-12	-6.4	High	A	512085	6714797
52.7	53.6	830	-13	-7.1	High	A	512298	6715968
53.8	54.6	760	-20	-5.8	High	A	512560	6717003
55.2	56.6	1370	-10	-3.1	High	A	512930	6718655
57.5	58.2	740	-7	-5.8	High	A	513444	6720498
58.3	58.6	210	-5	-4.1	High	A	513657	6721069
58.8	59.2	320	-6	-4.5	High	A	513777	6721605
59.4	60.0	590	-14	-12.6	High	A	513846	6722298
60.3	60.7	380	-7	-4.9	High	A	513569	6723029
61.2	61.4	150	-3	-1.4	High	A	513123	6723705
62.5	62.7	210	-4	1.9	High	A	512952	6724966
63.0	63.5	460	-13	-5.5	High	A	513085	6725613
63.6	63.8	220	-8	-1.3	High	A	513177	6726063
64.7	65.3	590	-11	-9.1	High	A	513425	6727268
65.7	66.0	240	-5	-3.7	High	A	513749	6728080
66.5	67.0	450	-24	-22.7	High	A	514240	6728882
67.6	67.9	380	-23	-21.1	High	A	514636	6729762
68.1	68.4	290	-11	-9.8	High	A	514778	6730262
68.4	68.6	210	-7	-5.3	High	A	514877	6730502
68.7	68.9	170	-3	-2.1	High	A	515038	6730743
69.1	69.4	350	-20	-19.1	High	A	515358	6731027
75.2	75.4	200	-6	-3.9	High	A	519216	6734697
76.0	76.4	460	-29	-26.5	High	A	519535	6735483
76.6	77.1	445	-13	-10.3	High	A	519603	6736125
77.6	77.9	300	-9	-7.1	High	A	519653	6736981

Upgrading the Pacific Highway – Woolgoolga to Ballina Upgrade

Station		Length (m)	Max height cut (m)	Min distance to water table (m)	Potential construction impact	Cut type*	Coordinates	
Start	Finish						Easting	Northing
78.1	78.4	340	-14	-12.1	High	A	519742	6737493
80.9	81.0	140	-4	1.1	High	A	520150	6740202
81.3	81.7	370	-5	3.6	Low	B	520435	6740609
81.7	81.8	30	-1	7.8		C	520622	6740804
81.9	81.9	30	-1	8.1		C	520740	6740926
82.1	82.2	160	-3	6.8		C	520913	6741106
82.5	82.9	412	-6	5.8		C	521197	6741524
82.9	83.0	80	-6	4.1	Low	B	521278	6741792
83.0	83.1	85	-5	3.6	Low	B	521299	6741859
94.0	94.0	0	-1	1.0	High	A	524414	6751319
94.0	94.	0	-1	1.0	High	A	524408	6751348
94.1	94.1	0	-1	1.0	High	A	524398	6751397
94.1	94.1	0	-1	1.0	High	A	524392	6751427
94.2	94.2	0	-1	1.1	High	A	524386	6751456
94.2	94.2	27	-1	1.1	High	A	524378	6751495
94.9	94.9	30	-1	1.8	High	A	524209	6752205
95.1	95.1	0	-1	2.3	Medium	B	524162	6752404
95.3	95.3	0	-1	2.5	Medium	B	524125	6752555
95.3	95.4	50	-1	2.5	Medium	B	524111	6752604
95.4	95.5	10	-1	2.7	Medium	B	524076	6752718
95.5	95.5	30	-1	2.6	Medium	B	524062	6752756
98.0	98.2	260	-1	3.3	Low	B	522955	6755130
101.2	101.3	70	-2	0.9	High	A	521331	6757834
103.4	103.4	0	-1	2.6	Medium	B	520614	6759791
105.8	106.0	202	-9	-4.8	High	A	521561	6762075
107.2	107.8	570	-7	-2.9	High	A	522687	6763153
108.2	109.0	750	-8	-5.0	High	A	523294	6764092
110.0	110.1	60	-1	2.3	Medium	B	524013	6765363
110.3	110.4	65	-1	2.2	Medium	B	524156	6765626
110.6	111.0	240	-1	-0.5	High	A	524338	6765960
110.9	111.0	70	-1	-0.3	High	A	524429	6766127
111.0	111.1	20	-1	-0.1	High	A	524477	6766215
111.1	111.1	0	-1	0.0	High	A	524500	6766259
111.1	111.2	30	-1	0.0	High	A	524532	6766321
111.2	111.5	280	-1	-0.1	High	A	524619	6766523

Upgrading the Pacific Highway – Woolgoolga to Ballina Upgrade

Station		Length (m)	Max height cut (m)	Min distance to water table (m)	Potential construction impact	Cut type*	Coordinates	
Start	Finish						Easting	Northing
112.6	113.0	370	-3	-0.1	High	A	525168	6767800
114.1	114.6	489	-4	0.3	High	A	525902	6769187
117.6	117.7	120	-2	5.7		C	527016	6772275
118.1	118.3	200	-3	5.6		C	527161	6772782
118.6	119.7	1120	-10	0.0	High	A	527742	6773531
119.9	120.0	130	-4	5.4		C	528258	6774155
120.2	120.5	260	-3	5.8		C	528541	6774452
120.8	121.4	593	-6	1.9	High	A	529116	6774964
122.8	123.3	552	-5	-0.5	High	A	530662	6776062
124.8	125.0	210	-3	-1.3	High	A	531411	6777783
125.3	125.3	20	-1	2.3	Medium	B	531569	6778116
125.4	125.4	50	-1	2.5	Medium	B	531618	6778179
126.0	126.0	60	-1	4.6	Low	B	532077	6778595
127.0	127.0	20	-1	6.9		C	532792	6779287
127.1	127.1	40	-1	7.2		C	532834	6779367
127.1	127.2	20	-1	7.5		C	532854	6779413
127.2	127.2	20	-1	7.8		C	532875	6779469
127.7	127.9	170	-4	7.3		C	532953	6780022
128.1	128.9	780	-17	-0.9	High	A	533015	6780730
129.0	129.1	60	-2	1.0	High	A	533065	6781297
134.7	134.9	200	-7	-4.0	High	A	537376	6784541
136.0	136.2	140	-1	-0.1	High	A	538119	6785557
136.3	136.3	3	-2	-0.4	High	A	538122	6785700
140.1	140.5	390	-2	-1.2	High	A	540299	6788838
142.1	142.2	80	-5	-1.7	High	A	542041	6789281
142.9	142.9	20	-2	-0.7	High	A	542666	6789658
142.9	142.9	0	-1	-0.2	High	A	542700	6789679
143.0	143.3	280	-3	-1.6	High	A	542902	6789809
144.0	144.2	270	-2	-1.4	High	A	543410	6790596
144.3	144.5	190	-6	-5.1	High	A	543434	6790895
144.8	144.9	50	-7	-6.6	High	A	543346	6791313
146.1	146.1	50	-3	-1.5	High	A	542723	6792437
146.5	146.5	30	-2	-1.1	High	A	542602	6792765
147.4	147.9	541	-13	-5.2	High	A	542468	6793893
148.2	148.2	50	-4	-1.6	High	A	542312	6794471

Upgrading the Pacific Highway – Woolgoolga to Ballina Upgrade

Station		Length (m)	Max height cut (m)	Min distance to water table (m)	Potential construction impact	Cut type*	Coordinates	
Start	Finish						Easting	Northing
148.3	148.4	111	-9	-7.0	High	A	542239	6794636
148.9	149.0	60	-4	-2.4	High	A	541996	6795128
149.0	149.1	85	-4	-2.2	High	A	541966	6795244
152.4	152.5	140	-7	-6.2	High	A	542513	6798381
156.5	156.6	60	-1	-0.3	High	A	545645	6799738
157.2	157.2	70	-4	-0.2	High	A	546036	6800255
157.3	157.4	70	-5	-1.2	High	A	546087	6800386
157.4	157.6	175	-4	0.7	High	A	546149	6800533
159.8	159.8	0	-1	-0.2	High	A	546753	6802697
163.0	163.1	0	-1	-0.7	High	A	547720	6805804

Note: light grey shading denotes “out-of-scope – upgrade under construction”; dark grey denotes “bridge over North Arm of Clarence River”

Appendix C Bore hole data used in the groundwater assessment

Table C-1 - Watertable (WT) data used in the groundwater assessment

Source name	Location ID	Location type	Easting	Northing	Bore RL recorded (mAHD)	Bore RL estimated, if not recorded (mAHD)	Bore depth recorded (mbgl)	WT depth recorded (mbgl)	WT elevation recorded (mAHD)	WT elevation used in analysis (mAHD)	WT date recorded**	RL Source	Note
W2BPA (2011)	HA2	Bore	535476	6783222	2.15	--	0.95	0.90	1.20	1.25	11/09/2010	Recorded	
W2BPA (2011)	BH101	Bore	533117	6781706	0.92	--	8.90	0.12	0.80	0.80	11/11/2010	Recorded	
Coffey (2009) S 3	BH102	Bore	533327	6782166	0.85	--	18.00	0.20	0.65	0.65	19/04/2005	Recorded	
Coffey (2008) S 4	BH103	Bore	533550	6782364	0.81	--	18.00	0.30	0.51	0.51	6/09/2007	Recorded	
Coffey (2009) S 3	BH104	Bore	534242	6782752	2.00	--	27.55	1.47	0.53	0.53	4/12/2005	Recorded	
Coffey (2008) S 4	BH105	Bore	535214	6783042	2.29	--	23.50	1.26	1.03	1.03	5/09/2007	Recorded	
Coffey (2008) S 4	BH106	Bore	535323	6783147	2.34	--	23.05	1.15	1.19	1.19	5/09/2007	Recorded	
Coffey (2008) S 4	BH107	Bore	534618	6782687	2.00	--	27.18	0.16	1.84	1.84	6/09/2007	Recorded	
Coffey (2008) S 3	BH108	Bore	535769	6783549	2.31	--	28.50	0.20	2.11	2.11	22/08/2007	Recorded	
Coffey (2008) S 3	BH109	Bore	536502	6784018	2.17	--	32.45	0.20	1.97	1.97	22/08/2007	Recorded	
Coffey (2009) S 3	BH111	Bore	537363	6784489	10.32	--	8.00	3.20	7.12	7.12	27/04/2005	Recorded	
Coffey (2008) S 4	BH112	Bore	537384	6784541	9.76	--	7.95	3.00	6.76	6.76	5/09/2007	Recorded	
Coffey (2008) S 3	BH113	Bore	537398	6784686	7.68	--	8.10	2.70	4.98	4.98	21/08/2008	Recorded	
Coffey (2008) S 3	BH114	Bore	544019	6799749	5.08	--	17.25	0.67	4.41	4.41	29/08/2008	Recorded	
Coffey (2008) S 4	BH115	Bore	538054	6785172	2.65	--	20.95	0.40	2.25	2.25	9/09/2007	Recorded	
Coffey (2008) S 3	BH116	Bore	538461	6786350	2.06	--	10.45	0.05	2.01	2.01	15/10/2007	Recorded	
W2BPA (2011)	BH117	Bore	539204	6787743	6.99	--	10.30	0.60	6.39	6.39	19/11/2010	Recorded	
Coffey (2009) S 3	BH118	Bore	541166	6789108	0.63	--	10.45	0.10	0.53	0.53	15/04/2005	Recorded	
W2BPA (2011)	BH119	Bore	541667	6789137	1.08	--	10.40	-0.40	1.48	1.48	30/11/2010	Recorded	
Coffey (2008) S 3	BH120	Bore	542038	6789244	8.45	--	10.00	3.90	4.55	4.55	23/08/2007	Recorded	
Coffey (2009) S 2	BH121	Bore	542393	6789454	9.12	--	7.00	0.70	8.42	8.42	8/12/2007	Recorded	

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Source name	Location ID	Location type	Easting	Northing	Bore RL recorded (mAHD)	Bore RL estimated, if not recorded (mAHD)	Bore depth recorded (mbgl)	WT depth recorded (mbgl)	WT elevation recorded (mAHD)	WT elevation used in analysis (mAHD)	WT date recorded**	RL Source	Note
Coffey (2008) S 3	BH122	Bore	542518	6789495	9.27	--	41.95	0.20	9.07	9.07	16/10/2008	Recorded	
Coffey (2008) S 3	BH123	Bore	543336	6791373	4.50	--	6.60	0.38	4.12	4.12	10/11/2007	Recorded	
Coffey (2008) S 3	BH124	Bore	543066	6791644	1.27	--	18.00	0.24	1.03	1.03	10/12/2007	Recorded	
W2BPA (2011)	BH125	Bore	542922	6791960	1.05	--	41.95	0.50	0.55	0.55	12/07/2010	Recorded	
Coffey (2008) S 4	BH130	Bore	542529	6793554	2.84	--	7.95	0.30	2.54	2.54	8/09/2007	Recorded	
Coffey (2008) S 3	BH131	Bore	542502	6793751	14.90	--	8.00	7.34	7.56	7.56	10/08/2007	Recorded	
W2BPA (2011)	BH132	Bore	542464	6794024	14.85	--	10.00	9.06	5.79	5.79	29/11/2010	Recorded	
W2BPA (2011)	BH133	Bore	542029	6795022	6.15	--	15.15	0.60	5.55	5.55	15/11/2010	Recorded	
W2BPA (2011)	BH134	Bore	541903	6795211	14.15	--	10.00	3.60	10.55	10.55	4/07/2011	Recorded	
W2BPA (2011)	BH135	Bore	541657	6796123	4.09	--	8.60	0.00	4.09	4.09	30/11/2010	Recorded	
W2BPA (2011)	BH136	Bore	541622	6796635	3.69	--	8.95	0.20	3.49	3.49	16/12/2010	Recorded	
Coffey (2008) S 4	BH137	Bore	541993	6797582	5.26	--	14.20	0.80	4.46	4.46	6/09/2007	Recorded	
Coffey (2008) S 3	BH138	Bore	542191	6797784	3.79	--	7.95	0.66	3.13	3.13	10/12/2007	Recorded	
Coffey (2008) S 3	BH139	Bore	542491	6798340	8.35	--	9.40	-0.08	8.43	8.43	22/08/2007	Recorded	
W2BPA (2011)	BH140	Bore	542612	6798687	3.34	--	13.75	0.15	3.19	3.19	4/06/2011	Recorded	
W2BPA (2011)	BH141	Bore	546086	6800380	9.87	--	10.45	3.20	6.67	6.67	12/07/2010	Recorded	
W2BPA (2011)	BH142	Bore	546145	6800516	8.60	--	21.00	4.47	8.60	4.13	16/11/2010	Recorded	
Coffey (2008) S 3	BH143	Bore	546778	6802773	1.80	--	37.80	0.75	1.05	1.05	30/08/2007	Recorded	
Coffey (2008) S 4	BH144	Bore	546983	6803873	0.52	--	28.70	-0.10	0.62	0.62	16/08/2007	Recorded	
Coffey (2008) S 3	BH145	Bore	547764	6806006	0.55	--	21.25	0.20	0.35	0.35	20/09/2007	Recorded	
W2BPA (2011)	BH148	Bore	543079	6799590	1.14	--	10.45	0.12	1.02	1.02	16/12/2010	Recorded	
W2BPA (2011)	BH149	Bore	537693	6784737	2.01	--	10.45	0.15	1.86	1.86	15/11/2010	Recorded	

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Source name	Location ID	Location type	Easting	Northing	Bore RL recorded (mAHD)	Bore RL estimated, if not recorded (mAHD)	Bore depth recorded (mbgl)	WT depth recorded (mbgl)	WT elevation recorded (mAHD)	WT elevation used in analysis (mAHD)	WT date recorded**	RL Source	Note
Coffey (2008) S 3	BH150	Bore	543346	6790328	7.93	--	4.45	0.50	7.43	7.43	9/04/2007	Recorded	
Coffey (2008) S 3	BH151	Bore	543425	6790511	7.71	--	5.00	0.29	7.42	7.42	25/06/2008	Recorded	
Coffey (2008) S 4	BH152	Bore	543294	6790568	7.17	--	4.45	0.84	6.33	6.33	8/08/2007	Recorded	
Coffey (2008) S 3	BH153	Bore	543698	6790503	8.43	--	4.45	0.90	7.53	7.53	26/10/2007	Recorded	
Coffey (2007)	BH154	Bore	543462	6790916	5.69	--	3.10	0.29	5.40	5.40	14/04/2005	Recorded	
Coffey (2008) S 3	BH155	Bore	543416	6791134	7.94	--	5.00	0.39	7.55	7.55	8/11/2007	Recorded	
Coffey (2008) S 3	BH156	Bore	547913	6806867	1.13	--	15.70	0.50	0.63	0.63	15/10/2007	Recorded	
Coffey (2008) S 3	BH157	Bore	547702	6806508	1.30	--	30.10	0.45	0.85	0.85	1/07/2008	Recorded	
Coffey (2008) S 3	CPT114	CPT	546732	6802445	2.33	--	6.00	1.00	--	1.33	22/08/2007	Recorded	
W2BPA (2011)	CPT14	CPT	546848	6803311	1.02	--	26.91	2.00	--	-0.98	16/11/2010	Recorded	
Coffey (2009) S 3	HA12	Bore	535573	6783337	2.07	--	2.50	1.07	1.00	1.00	14/04/2005	Recorded	
Coffey (2008) S 3	HA13	Bore	535418	6783146	2.36	--	2.50	1.75	0.61	0.61	18/10/2007	Recorded	
Coffey (2008) S 3	HA7	Bore	535239	6783187	2.27	--	0.80	1.01	1.26	1.26	25/06/2008	Recorded	
Coffey (2008) S 3	HA8	Bore	535500	6783308	2.28	--	2.50	0.94	1.34	1.34	20/08/2008	Recorded	
Coffey (2008) S 4	TP102	Test Pit	533120	6781350	3.80	--	5.00	1.40	2.40	2.40	14/08/2007	Recorded	*
W2BPA (2011)	TP103	Test Pit	535350	6783247	2.15	--	2.90	2.70	-0.55	-0.55	12/03/2010	Recorded	*
Coffey (2008) S 4	TP104	Test Pit	536913	6784255	1.85	--	1.40	0.90	0.95	0.95	23/08/2007	Recorded	
Coffey (2007)	TP108	Test Pit	538231	6785635	5.01	--	1.90	1.30	3.71	3.71	14/04/2005	Recorded	
W2BPA (2011)	TP109	Test Pit	538533	6786849	2.57	--	2.00	0.90	1.67	1.67	22/11/2010	Recorded	
Coffey (2008) S 3	TP110	Test Pit	539860	6788598	6.22	--	2.40	0.90	--	5.32	30/07/2008	Recorded	*
Coffey (2008) S 4	TP112	Test Pit	542371	6789360	8.48	--	1.50	0.80	7.68	7.68	30/07/2008	Recorded	
Coffey (2008) S 3	TP113	Test Pit	542641	6789469	9.11	--	2.20	0.90	8.21	8.21	21/08/2008	Recorded	*

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Coffey (2008) S 4	TP115	Test Pit	542721	6789650	9.53	--	1.50	0.70	8.83	8.83	17/07/2007	Recorded	
Coffey (2008) S 3	TP116	Test Pit	542639	6789728	9.73	--	1.90	1.20	8.53	8.53	8/08/2007	Recorded	
Coffey (2008) S 4	TP117	Test Pit	543117	6789957	7.29	--	2.30	0.95	6.34	6.34	20/07/2007	Recorded	*
Coffey (2008) S 3	TP122	Test Pit	543344	6790617	7.57	--	1.80	1.70	--	5.87	22/08/2007	Recorded	
Coffey (2007)	TP129	Test Pit	542393	6794263	5.61	--	3.00	1.95	3.66	3.66	14/04/2005	Recorded	*
W2BPA (2011)	TP130	Test Pit	542219	6794686	6.88	--	4.60	2.00	4.88	4.88	11/12/2010	Recorded	*
Coffey (2008) S 3	TP131	Test Pit	542133	6794851	5.68	--	4.10	2.60	3.08	3.08	16/10/2007	Recorded	*
Coffey (2008) S 3	TP132	Test Pit	541725	6795714	4.61	--	2.20	1.70	2.91	2.91	9/10/2007	Recorded	*
Coffey (2008) S 3	TP133	Test Pit	541670	6797060	5.34	--	2.40	1.00	4.34	4.34	9/05/2007	Recorded	*
W2BPA (2011)	TP134	Test Pit	542528	6798527	8.22	--	5.30	3.20	5.02	5.02	4/05/2011	Recorded	*
W2BPA (2011)	TP136	Test Pit	544044	6799737	3.58	--	3.50	2.40	1.18	1.18	4/05/2011	Recorded	*
Coffey (2008) S 4	TP139	Test Pit	545681	6799750	8.60	--	5.00	0.90	7.70	7.70	28/07/2007	Recorded	*
Coffey (2008) S 4	TP140	Test Pit	545895	6799971	6.49	--	4.90	3.60	2.89	2.89	30/07/2008	Recorded	*
Coffey (2008) S 4	TP144	Test Pit	544082	6799907	26.50	--	6.50	4.40	22.10	22.10	6/09/2007	Recorded	*
Coffey (2008) S 4	TP146	Test Pit	544072	6799866	16.60	--	5.50	4.80	11.80	11.80	16/07/2007	Recorded	*
Coffey (2008) S 3	TP148	Test Pit	544059	6799800	4.70	--	3.00	2.60	2.10	2.10	21/08/2007	Recorded	
Coffey (2008) S 4	TP26	Test Pit	541608	6796661	4.73	--	1.40	1.10	3.63	3.63	20/09/2007	Recorded	
W2BPA (2011)	TP29	Test Pit	544300	6799412	2.50	--	2.20	1.70	0.80	0.80	4/11/2011	Recorded	--
W2BPA (2011)	TP32	Test Pit	545799	6799858	7.35	--	5.00	4.80	2.55	2.55	4/12/2011	Recorded	*
W2BPA (2011)	TP4	Test Pit	536270	6784051	1.98	--	3.00	2.80	-0.82	-0.82	12/02/2010	Recorded	
W2BPA (2011)	TP5	Test Pit	537922	6786539	2.02	--	1.60	1.40	0.62	0.62	4/07/2011	Recorded	
Coffey (2008) S 4	TP7	Test Pit	540304	6788983	4.58	--	1.40	1.40	3.18	3.18	30/07/2008	Recorded	

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Coffey (2008) S 3	WBH1	Bore	533623	6782196	0.77	--	16.60	0.80	-0.10	-0.03	9/07/2007	Recorded	
Coffey (2008) S 3	WBH12	Bore	543168	6792314	2.67	--	30.00	2.60	0.10	0.10	25/06/2008	Recorded	
Coffey (2008) S 3	WBH14	Bore	541926	6797373	5.23	--	19.00	3.20	2.00	2.00	9/10/2007	Recorded	
W2BPA (2011)	WBH15	Bore	542816	6798390	2.99	--	8.00	2.00	1.00	1.00	4/06/2011	Recorded	
Coffey (2007)	WBH18	Bore	547159	6804769	0.49	--	19.00	0.70	-0.20	-0.20	1/08/2006	Recorded	
Coffey (2008) S 3	WBH4	Bore	539656	6788450	6.63	--	10.13	1.60	5.00	5.00	9/12/2007	Recorded	
Coffey (2008) S 3	WBH7	Bore	542980	6789982	10.09	--	14.95	3.15	7.00	6.90	9/10/2007	Recorded	
Coffey (2008) S 4	GBH191	Bore	502716	6704182	30.50	--	9.95	6.80	--	23.70	27/08/2007	Recorded	
Coffey (2008) S 4	GBH194	Bore	503208	6702392	65.70	--	14.82	13.54	--	52.16	18/07/2007	Recorded	
Coffey (2007)	GBH198	Bore	504387	6698551	45.90	--	10.00	10.20	--	35.70	3/10/2006	Recorded	
Coffey (2007)	GBH200	Bore	504966	6697486	69.30	--	11.50	11.40	--	57.90	13/03/2006	Recorded	
Coffey (2007)	GBH201	Bore	505596	6694872	91.80	--	10.00	9.50	--	82.30	24/08/2007	Recorded	
Coffey (2007)	GBH115	Bore	523396	6743910	1.50	--	35.08	1.50	--	0.00	13/03/2006	Recorded	
Coffey (2007)	GBH116	Bore	523247	6743294	0.80	--	35.55	1.00	--	-0.20	19/07/2006	Recorded	
Coffey (2007)	GBH117	Bore	522382	6742718	1.60	--	32.65	2.00	--	-0.40	13/03/2006	Recorded	*
Coffey (2007)	GBH121	Bore	520315	6740446	16.60	--	11.52	8.70	--	7.90	5/01/2007	Recorded	
Coffey (2007)	GBH124	Bore	519887	6739534	3.00	--	35.00	2.10	--	0.90	3/10/2006	Recorded	
Coffey (2009) S 2	GBH137	Bore	518044	6733760	3.40	--	39.47	3.70	--	-0.30	7/03/2008	Recorded	*
Coffey (2007)	GCPT119	CPT	523397	6743675	0.90	--	25.02	1.50	--	-0.60	3/10/2006	Recorded	
Coffey (2008) S 3	GCPT120	CPT	523242	6743275	1.00	--	29.58	1.00	--	0.00	9/11/2007	Recorded	
Coffey (2007)	GCPT121	CPT	522681	6742789	0.50	--	27.64	0.60	--	-0.10	3/02/2007	Recorded	
Coffey (2008) S 3	GCPT122	CPT	522020	6742455	1.50	--	10.78	2.40	--	-0.90	16/08/2007	Recorded	

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Coffey (2008) S 3	GCPT123	CPT	519909	6739658	2.80	--	27.09	2.05	--	0.75	25/06/2008	Recorded	
Coffey (2009) S 3	GCPT124	CPT	519889	6739373	2.20	--	6.44	2.00	--	0.20	14/04/2005	Recorded	
Coffey (2007)	GCPT125	CPT	519676	6738711	3.70	--	12.20	4.70	--	-1.00	14/04/2005	Recorded	
Coffey (2007)	GCPT126	CPT	519599	6738582	2.80	--	18.03	3.80	--	-1.00	24/10/2006	Recorded	
Coffey (2008) S 3	GCPT138	CPT	518199	6734726	2.30	--	42.02	3.00	--	-0.70	3/11/2008	Recorded	
Coffey (2008) S 3	GCPT139	CPT	518035	6734216	2.90	--	37.70	3.00	--	-0.10	9/10/2007	Recorded	
Coffey (2008) S 3	GCPT140	CPT	518028	6733858	3.80	--	33.04	3.70	--	0.10	22/08/2007	Recorded	
Coffey (2007)	GCPT144	CPT	517663	6732193	4.10	--	36.82	2.90	--	1.20	24/08/2006	Recorded	
Coffey (2008) S 3	GCPT145	CPT	517427	6732050	4.80	--	25.89	2.20	--	2.60	23/10/2007	Recorded	
Coffey (2008) S 3	GTP22	Test Pit	523407	6743728	0.80	--	2.50	0.50	0.30	0.30	9/06/2007	Recorded	*
Coffey (2007)	GTP24	Test Pit	523243	6743282	0.70	--	1.60	1.00	-0.30	-0.30	13/03/2006	Recorded	*
Coffey (2007)	GTP25	Test Pit	522681	6742790	0.50	--	2.50	0.60	-0.10	-0.10	14/04/2005	Recorded	*
Coffey (2008) S 3	GTP26	Test Pit	522022	6742456	1.50	--	2.50	2.40	-0.90	-0.90	9/11/2007	Recorded	*
Coffey (2007)	GTP27	Test Pit	521425	6742113	1.50	--	2.50	1.20	0.30	0.30	3/10/2006	Recorded	*
Coffey (2007)	GTP28	Test Pit	519997	6739804	0.50	--	3.30	0.50	0.00	0.00	13/03/2006	Recorded	*
Pineena (v9.3)	GTP29	Test Pit	519847	6739182	2.40	--	2.50	2.30	0.10	0.10	18/10/1976	Recorded	*
Pineena (v9.3)	GTP30	Test Pit	519728	6738824	3.30	--	2.50	2.40	1.10	0.90	15/07/1977	Recorded	*
Coffey (2007)	GTP31	Test Pit	519511	6738415	2.70	--	2.50	1.50	1.20	1.20	3/09/2006	Recorded	*
Coffey (2008) S 3	GTP36	Test Pit	518116	6734522	2.10	--	2.50	2.00	0.10	0.10	22/08/2007	Recorded	*
Coffey (2009) S 2	GTP37	Test Pit	518030	6733947	3.20	--	2.50	2.40	0.80	0.80	9/11/2007	Recorded	*
Pineena (v9.3)	GTP45	Test Pit	515548	6731620	2.00	--	2.50	1.60	0.40	0.40	29/03/1976	Recorded	*
Coffey (2008) S 3	R1/GBH4	Bore	521283	6741677	17.10	--	15.00	13.40	3.70	3.70	3/11/2008	Recorded	

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Coffey (2007)	GBH101	Bore	524119	6752718	8.80	--	16.27	3.70	5.10	5.10	3/09/2006	Recorded	
Pineena (v9.3)	GBH103	Bore	524389	6751492	2.00	--	26.84	1.80	0.20	0.20	22/11/1976	Recorded	--
Coffey (2007)	GBH104	Bore	524436	6751277	2.20	--	31.89	2.20	0.00	0.00	3/09/2006	Recorded	
Pineena (v9.3)	GBH105	Bore	524449	6750635	1.20	--	44.74	1.20	0.00	0.00	20/11/1975	Recorded	
Pineena (v9.3)	GBH106	Bore	524022	6749903	1.40	--	38.57	2.00	-0.60	-0.60		Recorded	+,*
Pineena (v9.3)	GBH107	Bore	523397	6748969	1.30	--	28.44	1.35	-0.05	-0.05	16/12/1976	Recorded	*
Pineena (v9.3)	GBH109	Bore	523597	6747135	5.20	--	28.41	4.70	0.50	0.50	10/05/1976	Recorded	--
Coffey (2007)	GBH110	Bore	523608	6747043	4.40	--	41.76	4.20	0.20	0.20	3/09/2006	Recorded	--
Pineena (v9.3)	GBH111	Bore	523454	6746024	1.40	--	56.10	0.90	0.50	0.50		Recorded	*
GHD (2009)	GBH111A	Bore	523378	6745540	1.00	--	49.73	0.80	0.20	0.20	27/07/2007	Recorded	--
Coffey (2009) S 2	GBH112	Bore	523437	6744906	1.60	--	66.00	1.70	-0.10	-0.10	8/11/2007	Recorded	--
Coffey (2008) S 3	GBH113	Bore	523460	6744666	1.60	--	47.00	2.00	-0.40	-0.40	5/02/2005	Recorded	+,*
Coffey (2009) S 2	GBH114	Bore	523431	6744017	1.70	--	35.67	2.00	-0.30	-0.30	27/06/2008	Recorded	*
Coffey (2007)	GTP10	Test Pit	524470	6751009	1.00	--	2.50	1.50	-0.50	-0.50	3/09/2006	Recorded	
Coffey (2007)	GTP11	Test Pit	524393	6750539	1.40	--	2.20	1.10	0.30	0.30	13/03/2006	Recorded	
Coffey (2007)	GTP12	Test Pit	523246	6748498	0.80	--	3.50	0.80	0.00	0.00	24/10/2006	Recorded	
Coffey (2007)	GTP17	Test Pit	523390	6745615	1.20	--	2.50	2.40	-1.20	-1.20	3/09/2006	Recorded	
Pineena (v9.3)	GTP18	Test Pit	523400	6745120	1.50	--	2.00	0.80	0.70	0.70	15/07/1977	Recorded	
Coffey (2007)	GTP19	Test Pit	523434	6744889	1.70	--	2.50	1.50	0.20	0.20	13/03/2006	Recorded	
Pineena (v9.3)	GTP2	Test Pit	523867	6753212	5.10	--	2.60	2.50	2.60	2.60	5/04/1976	Recorded	
Coffey (2007)	GTP20	Test Pit	523407	6744637	1.50	--	3.30	1.30	0.20	0.20	3/10/2006	Recorded	
Coffey (2007)	GTP21	Test Pit	523432	6743936	1.60	--	2.50	2.50	-0.90	-0.90	14/04/2005	Recorded	

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Coffey (2008) S 4	GTP6	Test Pit	524277	6751947	1.40	--	2.50	2.30	-0.90	-0.90	9/12/2007	Recorded	
Coffey (2007)	GTP7	Test Pit	524357	6751667	1.50	--	2.50	2.50	-1.00	-1.00	14/06/2006	Recorded	
Coffey (2007)	GTP8	Test Pit	524378	6751571	1.40	--	2.50	2.40	-1.00	-1.00	3/09/2006	Recorded	
GHD (2009)	GTP9	Test Pit	524452	6751197	1.50	--	2.50	2.50	-1.00	-1.00	7/12/2007	Recorded	
Coffey (2007)	GBH142	Bore	515219	6731125	20.30	--	10.00	0.60	--	19.70	23/10/2006	Recorded	
Coffey (2007)	GBH145	Bore	514386	6729547	9.30	--	14.81	1.40	--	7.90	13/03/2006	Recorded	*
Coffey (2007)	GBH146	Bore	514772	6729491	30.10	--	20.52	3.50	--	26.60	13/03/2006	Recorded	*
Coffey (2007)	GBH149	Bore	513422	6727243	35.70	--	11.00	1.23	--	34.47	3/10/2006	Recorded	
Coffey (2009) S 2	GBH152	Bore	513126	6725582	29.10	--	14.59	8.50	--	20.60	9/11/2007	Recorded	
Coffey (2007)	GBH163	Bore	513098	6719624	3.20	--	17.00	0.50	--	2.70	14/04/2005	Recorded	--
Coffey (2007)	GBH164	Bore	512924	6718255	26.40	--	14.60	11.80	--	14.60	3/10/2006	Recorded	
GHD (2007)	GBH166	Bore	512542	6717010	30.00	--	15.00	14.50	--	15.50	1/09/2007	Recorded	*
GHD (2007)	GBH168	Bore	512200	6715270	4.70	--	14.90	1.00	--	3.70	15/12/2006	Recorded	
Coffey (2007)	GBH169	Bore	512107	6714802	31.70	--	10.13	6.00	--	25.70	14/06/2006	Recorded	
Coffey (2007)	GBH174	Bore	510958	6709864	8.80	--	22.68	0.60	--	8.20	14/06/2006	Recorded	*
GHD (2009)	GBH176	Bore	510071	6709191	24.50	--	15.65	4.75	--	19.75	28/11/2007	Recorded	*
Coffey (2007)	GBH180	Bore	507633	6708626	1.70	--	16.70	1.00	--	0.70	14/06/2006	Recorded	*
Coffey (2007)	GBH181	Bore	506943	6708462	2.70	--	11.60	3.50	--	-0.80	14/06/2006	Recorded	
Coffey (2007)	GBH182	Bore	506158	6708370	10.50	--	10.26	3.70	--	6.80	5/01/2007	Recorded	
Coffey (2009) S 2	GBH190	Bore	502809	6704878	36.50	--	14.70	8.00	--	28.50	27/08/2007	Recorded	
Coffey (2008) S 3	GTP49	Test Pit	514771	6729433	29.80	--	2.50	1.70	--	28.10	15/07/2007	Recorded	*
GHD (2009)	GTP51	Test Pit	514234	6729518	5.20	--	2.50	2.30	--	2.90	7/06/2007	Recorded	*

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Coffey (2009) S 2	GTP54	Test Pit	513982	6728446	36.00	--	2.50	1.70	--	34.30	16/07/2008	Recorded	*
GHD (2007)	GTP61	Test Pit	512905	6724013	4.60	--	2.50	0.80	--	3.80	18/01/2007	Recorded	*
Coffey (2007)	GTP69	Test Pit	513747	6721258	19.00	--	1.90	0.90	--	18.10	13/03/2006	Recorded	*
Coffey (2007)	GTP71	Test Pit	513059	6718867	22.50	--	2.50	2.20	--	20.30	28/08/2006	Recorded	*
Coffey (2007)	GTP84	Test Pit	509640	6709127	19.00	--	2.50	1.50	--	17.50	28/08/2006	Recorded	*
GHD (2007)	GCPT11	CPT	518391	6735487	3.19	--	21.00	4.00	--	-0.81	18/01/2007	Recorded	
Coffey (2007)	GCPT6	CPT	523383	6743882	1.10	--	5.50	2.00	--	-0.90	3/09/2006	Recorded	
GHD (2007)	GCPT7	CPT	523378	6743777	0.83	--	20.75	2.00	--	-1.17	12/01/2006	Recorded	
Coffey (2007)	GCPT9	CPT	519926	6739814	0.81	--	11.00	1.00	--	-0.19	5/01/2007	Recorded	
Coffey (2009) S 2	B-BH6	Bore	517626	6678590	11.50	--	15.00	4.25	--	7.25	20/09/2007	Recorded	
Coffey (2009) S 2	B-BH7	Bore	517028	6679552	10.20	--	14.85	2.80	--	7.40	29/08/2007	Recorded	
Coffey (2009) S 2	B-BH9	Bore	516483	6680250	18.30	--	10.00	7.00	--	11.30	13/09/2007	Recorded	
Coffey (2009) S 2	B-TP01	Test Pit	517494	6678844	10.40	--	2.00	1.10	--	9.30	29/08/2008	Recorded	
Coffey (2009) S 2	B-TP02	Test Pit	517253	6679264	9.40	--	2.60	1.10	--	8.30	9/11/2008	Recorded	*
Coffey (2009) S 2	B-TP03	Test Pit	515976	6680940	26.70	--	3.20	3.10	--	23.60	30/07/2007	Recorded	*
GHD (2009)	B-TP04	Test Pit	515889	6681019	27.30	--	3.10	1.40	--	25.90	20/06/2007	Recorded	
Coffey (2009) S 2	C-BH01	Bore	515171	6682094	120.00	--	44.92	3.40	--	116.60	13/09/2007	Recorded	
GHD (2009)	D5	Bore	507930	6689079	62.00	--	6.45	3.30	--	58.70	7/12/2007	Recorded	
Coffey (2009) S 2	GHD_BH22	Bore	524236	6765729	8.80	--	21.80	3.25	--	5.55	30/07/2007	Recorded	
GHD (2007)	GHD_BH23	Bore	524405	6766033	8.60	--	21.20	0.60	--	8.00	12/05/2006	Recorded	
Coffey (2008) S 1	GHD_BH38	Bore	528006	6773841	42.70	--	11.20	9.95	--	32.75	9/11/2007	Recorded	
Coffey (2009) S 2	GHD_BH4	Bore	521134	6758104	22.10	--	14.90	2.00	--	20.10	20/09/2007	Recorded	

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GHD (2007)	GHD_BH45	Bore	529162	6774972	16.80	--	9.00	8.05	--	8.75	12/05/2006	Recorded	
Coffey (2009) S 2	GHD_BH50	Bore	531346	6777516	4.40	--	10.10	0.80	--	3.60	26/08/2007	Recorded	
Coffey (2009) S 2	GHD_BH57 A	Bore	532963	6780809	24.30	--	17.00	16.83	--	7.47	26/06/2008	Recorded	
Coffey (2009) S 2	GHD_BH7	Bore	520587	6759209	24.00	--	23.30	3.50	--	20.50	26/02/2008	Recorded	
GHD (2009)	GW011124	Bore	519552	6741700	--	9.480	39.60	3.50	--	5.98	30/07/2007	2 m DEM	
Coffey (2009) S 2	GW011578	Bore	538450	6802652	--	162.730	12.80	6.10	--	156.63	9/12/2007	2 m DEM	
Coffey (2009) S 2	GW013026	Bore	532127	6759153	--	4.170	19.50	3.00	--	1.17	9/11/2007	2 m DEM	
Coffey (2008) S 1	GW013027	Bore	531990	6758230	--	10.040	20.30	4.60	--	5.44	9/11/2007	2 m DEM	
Coffey (2008) S 1	GW013938	Bore	545043	6791764	--	5.380	25.50	1.20	--	4.18	9/11/2007	2 m DEM	
Coffey (2008) S 1	GW014314	Bore	538038	6800776	--	8.100	3.30	1.20	--	6.90	20/09/2007	2 m DEM	
Coffey (2008) S 1	GW016420	Bore	558876	6809152	--	10.580	7.00	1.20	--	9.38	20/09/2007	2 m DEM	
GHD (2007)	GW016421	Bore	558821	6809029	--	10.830	7.60	1.20	--	9.63	12/04/2006	2 m DEM	
Pineena (v9.3)	GW029294	Bore	509058	6688651	--	78.080	18.30	3.70	--	74.38	1/01/1974	25 m DEM	
Pineena (v9.3)	GW029295	Bore	509085	6688528	--	78.340	8.20	3.70	--	74.64	1/01/1974	25 m DEM	
Pineena (v9.3)	GW032023	Bore	535492	6783057	--	2.000	15.20	1.80	--	0.20	15/05/1982	25 m DEM	
Pineena (v9.3)	GW032447	Bore	543439	6789739	--	10.460	3.40	1.50	--	8.96	1/01/1958	25 m DEM	
Pineena (v9.3)	GW039146	Bore	552509	6803427	4.19	--	32.00	1.20	2.99	2.99	18/08/1988	Recorded	
Pineena (v9.3)	GW039147	Bore	553403	6803393	5.43	--	27.00	0.80	4.63	4.63	1/01/1975	Recorded	
Pineena (v9.3)	GW039149	Bore	535755	6797952	4.24	--	36.00	0.90	3.34	3.34	1/01/1975	Recorded	
Pineena (v9.3)	GW039152	Bore	538867	6781599	7.20	--	48.00	3.80	3.40	3.40	1/01/1975	Recorded	
Pineena (v9.3)	GW039153	Bore	541050	6779899	8.72	--	17.70	6.30	2.42	2.42	1/01/1975	Recorded	

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Pineena (v9.3)	GW039154	Bore	541833	6779465	5.67	--	41.10	3.70	1.97	1.97	1/01/1975	Recorded	
Pineena (v9.3)	GW039163	Bore	553782	6809238	2.74	--	21.90	1.70	1.04	1.04	9/01/1972	Recorded	
Pineena (v9.3)	GW039164	Bore	532697	6788697	4.77	--	42.90	1.20	3.57	3.57	1/01/1974	Recorded	
Pineena (v9.3)	GW039166	Bore	536069	6794411	4.44	--	9.00	1.30	3.14	3.14	1/01/1974	Recorded	
Pineena (v9.3)	GW040868	Bore	535058	6783482	--	2.000	22.00	2.03	--	-0.03		2 m DEM	
Pineena (v9.3)	GW040869	Bore	535458	6783035	--	2.000	16.50	1.99	--	0.01		25 m DEM	
Pineena (v9.3)	GW042898	Bore	535088	6783397	--	2.000	16.80	0.90	--	1.10	10/01/1980	25 m DEM	
Pineena (v9.3)	GW044336	Bore	541819	6798085	--	6.120	5.20	3.70	--	2.42	1/01/1975	25 m DEM	
Pineena (v9.3)	GW044338	Bore	542741	6798420	--	3.000	3.70	2.40	--	0.60	18/08/1988	25 m DEM	
Pineena (v9.3)	GW045862	Bore	546894	6801266	--	4.160	9.10	3.00	--	1.16	1/01/1975	25 m DEM	
Pineena (v9.3)	GW046032	Bore	546568	6800898	--	6.730	6.70	2.40	--	4.33	1/01/1974	25 m DEM	
Pineena (v9.3)	GW046063	Bore	546975	6801235	--	4.530	5.50	1.20	--	3.33		2 m DEM	
Pineena (v9.3)	GW046071	Bore	546486	6800683	--	6.280	10.10	4.30	--	1.98	5/07/2003	25 m DEM	
Pineena (v9.3)	GW046084	Bore	544613	6799583	--	3.990	6.70	1.80	--	2.19		25 m DEM	
Pineena (v9.3)	GW046127	Bore	541918	6795438	--	4.000	3.70	1.20	--	2.80		25 m DEM	
Pineena (v9.3)	GW046135	Bore	542854	6799836	--	9.490	5.50	0.60	--	8.89		25 m DEM	
Pineena (v9.3)	GW046136	Bore	542746	6799959	--	20.300	3.70	0.60	--	19.70	1/02/2006	25 m DEM	
Pineena (v9.3)	GW046146	Bore	543098	6799927	--	7.070	3.70	0.90	--	6.17		25 m DEM	
Pineena (v9.3)	GW046394	Bore	547018	6804990	--	1.800	4.90	1.50	--	0.30		25 m DEM	

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Pineena (v9.3)	GW046565	Bore	535061	6783427	--	2.000	18.00	1.90	--	0.10	1/01/1975	25 m DEM	
Pineena (v9.3)	GW046566	Bore	535061	6783304	--	2.000	18.00	2.10	--	-0.10	1/01/1960	25 m DEM	
Pineena (v9.3)	GW046567	Bore	535115	6783366	--	2.000	18.00	2.10	--	-0.10	18/08/1988	25 m DEM	
Pineena (v9.3)	GW046568	Bore	535142	6783366	--	2.000	18.00	1.80	--	0.20	1/01/1975	25 m DEM	
Pineena (v9.3)	GW046569	Bore	535061	6783274	--	2.000	17.40	2.30	--	-0.30	1/01/1975	25 m DEM	
Pineena (v9.3)	GW046570	Bore	535034	6783458	--	2.000	18.00	2.50	--	-0.50	1/01/1975	25 m DEM	
Pineena (v9.3)	GW047160	Bore	546979	6802066	--	3.460	14.00	5.00	--	-1.54	1/01/1975	25 m DEM	
Pineena (v9.3)	GW047302	Bore	547004	6801635	--	2.460	7.00	3.50	--	-1.04	18/08/1988	25 m DEM	
Pineena (v9.3)	GW048161	Bore	513495	6721980	--	12.070	2.00	1.00	--	11.07	29/03/1980	25 m DEM	
Pineena (v9.3)	GW049569	Bore	505683	6693424	--	80.440	19.00	7.00	--	73.44		25 m DEM	
Pineena (v9.3)	GW051761	Bore	506325	6690161	--	65.720	14.00	7.00	--	58.72		25 m DEM	
Pineena (v9.3)	GW056363	Bore	502627	6702690	--	54.410	45.00	18.00	--	36.41	1/01/1975	25 m DEM	
Pineena (v9.3)	GW056861	Bore	513474	6682614	--	106.940	39.30	9.10	--	97.84		25 m DEM	
Pineena (v9.3)	GW060520	Bore	505924	6692285	--	61.000	16.80	5.00	--	56.00	1/01/1974	25 m DEM	
Pineena (v9.3)	GW064565	Bore	531639	6777836	--	7.000	21.00	3.00	--	4.00	1/01/1950	25 m DEM	
Pineena (v9.3)	GW067532	Bore	542759	6798181	--	6.580	25.00	3.50	--	3.08	8/12/1991	25 m DEM	
Pineena (v9.3)	GW068905	Bore	506589	6690332	--	59.000	33.00	1.60	--	57.40	1/01/1950	25 m DEM	
Pineena (v9.3)	GW069064	Bore	510294	6687481	--	77.080	30.00	3.40	--	73.68	1/01/1975	25 m DEM	

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Pineena (v9.3)	GW070506	Bore	542843	6799898	--	10.460	36.00	5.90	--	4.56	5/03/1988	25 m DEM	
Pineena (v9.3)	GW070980	Bore	511630	6686494	--	90.250	42.00	12.00	--	78.25		25 m DEM	
Pineena (v9.3)	GW072523	Bore	512153	6686515	--	84.440	39.00	6.00	--	78.44	1/01/1975	25 m DEM	
Pineena (v9.3)	GW300086	Bore	510745	6687473	--	78.960	13.00	1.00	--	77.96	16/03/2007	25 m DEM	
Pineena (v9.3)	GW300344	Bore	543445	6789665	--	9.490	15.50	5.80	--	3.69		25 m DEM	
Pineena (v9.3)	GW300906	Bore	510710	6687674	--	82.360	61.00	9.00	--	73.36	28/11/2004	25 m DEM	
Pineena (v9.3)	GW301402	Bore	546487	6800457	--	5.630	11.00	5.80	--	-0.17		25 m DEM	
Pineena (v9.3)	GW301575	Bore	510902	6687518	--	97.650	36.00	5.00	--	92.65	4/01/1962	25 m DEM	
Pineena (v9.3)	GW302658	Bore	546879	6801990	--	3.690	11.40	2.10	--	1.59		25 m DEM	
Pineena (v9.3)	GW303174	Bore	515783	6730762	--	6.050	6.00	1.00	--	5.05		25 m DEM	
Pineena (v9.3)	GW304394	Bore	542796	6798555	--	3.000	6.00	2.00	--	1.00		25 m DEM	
Pineena (v9.3)	GW304547	Bore	509463	6688025	--	90.620	97.50	9.00	--	81.62		25 m DEM	
Pineena (v9.3)	GW304813	Bore	511744	6686571	--	80.450	9.00	3.00	--	77.45		25 m DEM	
Pineena (v9.3)	GW305242	Bore	510312	6687531	--	76.000	25.00	5.50	--	70.50	10/07/1986	25 m DEM	
Pineena (v9.3)	GW305319	Bore	516455	6681060	--	24.300	48.00	15.00	--	9.30	1/11/1990	25 m DEM	
Pineena (v9.3)	GW305762	Bore	542623	6798600	--	3.580	7.60	2.75	--	0.83		25 m DEM	
Pineena (v9.3)	GW305764	Bore	542528	6789531	--	10.000	1.50	0.40	--	9.60	14/09/1989	25 m DEM	
Pineena (v9.3)	GW305855	Bore	536593	6784078	--	2.000	19.00	1.00	--	1.00		25 m DEM	

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Pineena (v9.3)	GW305920	Bore	546135	6800370	--	4.000	10.00	3.20	--	0.80		25 m DEM	
Pineena (v9.3)	GW305922	Bore	542149	6797746	--	4.720	7.95	1.00	--	3.72		25 m DEM	
Pineena (v9.3)	GW305923	Bore	541925	6797530	--	5.000	8.80	1.00	--	4.00		25 m DEM	
Pineena (v9.3)	GW306002	Bore	541628	6796668	--	4.970	8.95	0.80	--	4.17		25 m DEM	
Pineena (v9.3)	GW306003	Bore	544023	6799748	--	3.450	17.25	0.40	--	3.05		25 m DEM	
Pineena (v9.3)	GW306004	Bore	543798	6790504	--	9.860	4.45	2.00	--	7.86		25 m DEM	
Pineena (v9.3)	GW306120	Bore	509185	6688480	--	81.230	48.00	19.00	--	62.23		25 m DEM	
Pineena (v9.3)	GW306191	Bore	510433	6687457	--	79.430	24.00	23.00	--	56.43		25 m DEM	
GHD (2007)	GW306249	Bore	531838	6742864	--	2.040	8.00	2.00	--	0.04		0	
Coffey (2007)	GW306273	Bore	542897	6806151	--	163.170	49.00	4.00	--	159.17	2/09/2006	0	
Coffey (2007)	GW306302	Bore	534100	6748333	--	3.970	6.00	2.40	--	1.57	14/04/2005	0	
Coffey (2007)	GW306303	Bore	532611	6744893	--	3.230	6.00	3.00	--	0.23	2/09/2006	0	
Coffey (2007)	GW306305	Bore	531377	6745279	--	1.680	8.00	2.00	--	-0.32	14/04/2005	0	
Coffey (2007)	GW306325	Bore	541797	6780074	--	2.060	15.20	5.60	--	-3.54	13/02/2006	0	
Coffey (2007)	SS1-BH01	Bore	518664	6732440	0.01	--	30.45	2.50	-2.50	-2.50	2/10/2006	Recorded	
Coffey (2007)	SS1-BH02	Bore	518784	6732637	-0.01	--	30.45	2.00	-2.00	-2.01	13/02/2006	Recorded	
Coffey (2007)	SS1-BH03	Bore	518858	6732814	1.50	--	19.95	1.40	0.10	0.10	14/04/2005	Recorded	
Coffey (2007)	SS1-BH04	Bore	518895	6733003	0.87	--	19.95	1.20	-0.35	-0.33	15/04/2005	Recorded	*
Coffey (2007)	SS1-BH05	Bore	518938	6733191	0.79	--	22.45	1.20	-0.40	-0.41	3/01/2006	Recorded	*
Coffey (2007)	SS1-BH06	Bore	518976	6733387	0.90	--	22.45	1.10	-0.20	-0.20	3/01/2006	Recorded	*

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Coffey (2007)	SS1-BH07	Bore	519018	6733576	0.21	--	35.47	0.00	0.20	0.21	21/02/2006	Recorded	*
Coffey (2007)	SS1-BH08	Bore	519049	6733751	1.02	--	43.80	1.50	-0.50	-0.48	21/02/2006	Recorded	*
Coffey (2007)	SS1-BH12	Bore	519098	6734049	0.47	--	40.00	1.30	-0.83	-0.83	2/10/2006	Recorded	*
Coffey (2007)	SS1-BH13	Bore	519098	6734110	0.51	--	35.15	0.30	0.20	0.20	16/02/2006	Recorded	*
Coffey (2007)	SS1-BH14	Bore	519119	6734110	0.67	--	35.85	1.20	-0.55	-0.53	14/02/2006	Recorded	*
Coffey (2007)	SS2-BH16	Bore	519615	6736693	0.44	--	9.30	1.00	-0.55	-0.56	20/03/2006	Recorded	
Coffey (2007)	SS3-BH15	Bore	520049	6739780	0.51	--	22.45	1.00	-0.50	-0.50	13/02/2006	Recorded	*
Coffey (2007)	SS3-BH23	Bore	519884	6738274	0.85	--	18.75	1.20	-0.35	-0.36	20/03/2006	Recorded	*
Coffey (2007)	SS3-BH24	Bore	519924	6738481	0.80	--	22.00	1.30	-0.50	-0.50	13/02/2006	Recorded	*
Coffey (2007)	SS3-BH25	Bore	519958	6738662	0.78	--	14.00	0.50	0.30	0.30	15/02/2006	Recorded	*
Coffey (2007)	SS3-BH26	Bore	520022	6738729	0.50	--	14.60	1.20	-0.70	-0.70	20/02/2006	Recorded	*
Coffey (2007)	SS3-BH27	Bore	519982	6738875	1.24	--	12.10	0.50	0.75	0.74	30/03/2007	Recorded	*
Coffey (2007)	SS3-BH28	Bore	520056	6739003	0.68	--	7.58	0.50	0.20	0.20	30/03/2007	Recorded	*
Coffey (2007)	SS3-BH29	Bore	520026	6739067	0.94	--	9.50	0.80	0.15	0.14	30/03/2007	Recorded	*
Coffey (2007)	SS3-BH30	Bore	520063	6739294	0.36	--	13.45	0.10	0.28	0.26	4/06/2005	Recorded	*
Coffey (2007)	SS3-BH31	Bore	520121	6739324	0.43	--	15.15	0.50	-0.08	-0.07	3/01/2006	Recorded	*
Coffey (2007)	SS3-BH32	Bore	520061	6739446	1.10	--	19.20	0.80	0.30	0.30	15/04/2005	Recorded	*
Coffey (2007)	SS3-BH33	Bore	520044	6739571	1.19	--	17.95	0.50	0.70	0.70	14/02/2006	Recorded	*
Coffey (2007)	SS3-BH34	Bore	520058	6739727	0.48	--	23.95	1.00	-0.50	-0.50	2/11/2006	Recorded	*
Coffey (2007)	SS3-BH35	Bore	520022	6739768	0.41	--	26.95	1.00	-0.60	-0.60	4/03/2005	Recorded	*
Coffey (2007)	SS3-BH36	Bore	520079	6739776	0.40	--	23.95	1.20	-0.80	-0.80	2/09/2006	Recorded	*
Pineena (v9.3)	SS3-BH37	Bore	520167	6739789	0.59	--	22.45	0.60	0.00	0.00	13/11/2002	Recorded	*

Notes: This lists bores within about 500km of the Pacific Highway upgrade, which were taken from previous reports related to the project.

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CTP = Cone Penetration Test

- * Value taken from bore log, which indicated the level was not a water level, rather a "water inflow into bore" level.
- + Value recorded in original report adjusted (eg typo assumed and correction made)
- ** Water level record date, if not explicitly stated in the source report, was assumed to be same as the drill date