Erosion Prone Area
Yarrabah Shire Local Government Area

Erosion Prone Area Definition

1. Erosion prone areas are deemed to exist over all tidal water to the extent of Queensland Coastal Waters and on all land adjacent to tidal water.
2. Erosion prone areas include areas subject to inundation by the highest astronomical tides (HAT) by the year 2100 or at risk from sea erosion.
3. On land adjacent to tidal water the landward boundary of the erosion prone area shall be defined by whichever of the following methods gives the greater erosion prone area width:
   a. a line measured 40 metres landward of the plan position of the present day HAT level except where approved revetments exist in which case the line is measured 10 metres landward of the upper seaward edge of the revetment, irrespective of the presence of outcropping bedrock;
   b. a line located by the linear distance shown on Table 1 and measured, unless specified otherwise, inland from:
      i. the seaward toe of the frontal dune (the seaward toe of the frontal dune is normally approximated by the seaward limit of terrestrial vegetation or, where this cannot be determined, the level of present day HAT); or
      ii. a straight line drawn across the mouth of a waterway between the alignment of the seaward toe of the frontal dune on either side of the mouth
   c. the plan position of the level of HAT plus 0.8 m vertical elevation.

   Except:
   i. where the linear distance specified in 3b is less than 40 metres, in which case section 3a. does not apply and the erosion prone area width will be the greater of 3b and 3c; or
   ii. where outcropping bedrock is present and no approved revetments exist, in which case the line is defined as being coincident with the most seaward bedrock outcrop at the plan position of present day HAT plus 0.8m; or
   iii. in approved canals in which case the line of present day HAT applies, irrespective of the presence of approved revetments or outcropping bedrock.

4. Erosion prone areas defined in accordance with the above are deemed to exist throughout all the local government areas, irrespective of whether the entire local government area is depicted on erosion prone area plans for the area.

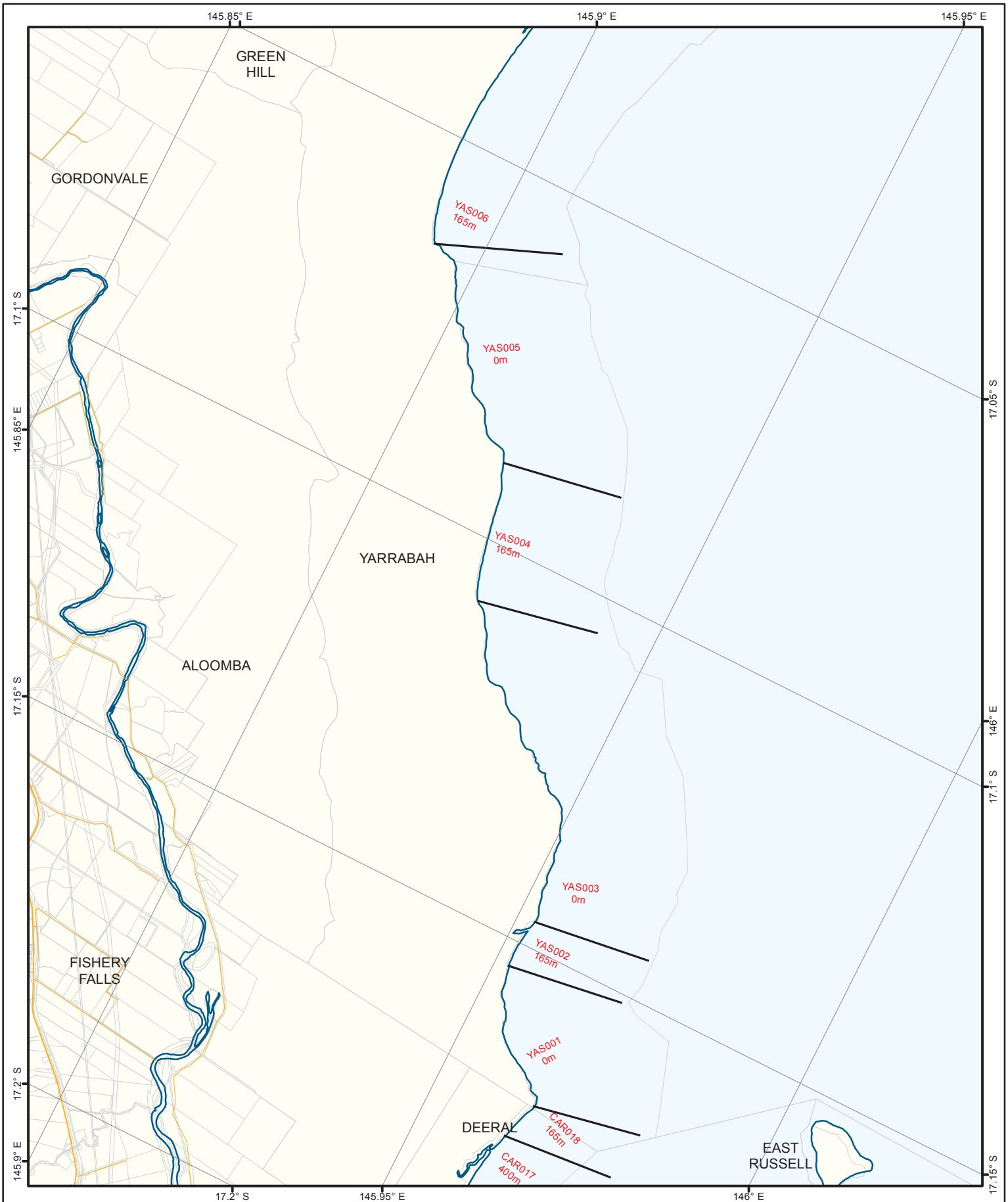
Notes to clarify the definition

1. The specific location along the coast to which each erosion prone area linear distance applies (a segment) is shown in Table 1.
2. A map indicating the approximate location along the coast of each linear distance segment is attached.
3. Each erosion prone area segment is located on the coastline between 2 points defined by latitude and longitude. A projection of each point to the nearest actual coastline and continuing inland perpendicular to the coast defines the erosion prone area segment.
4. “Present day HAT” in the definition is always taken to be the present day level of HAT for the coastline as defined in the Queensland Tide Tables for that year or as defined by empirical methodology at the site.
5. The extent of the erosion prone area where it is defined by “HAT plus 0.8m” is the HAT coastline at the year 2100 and includes sea level rise to that time. It is determined by the area of land inundated to the level HAT of the nearest adjacent open coast or river tide gauge plus 0.8m vertical elevation. Site based HAT is not to be used as present day attenuation of inland HAT level due to flow constraints may not persist to 2100 with coastline response to sea level rise. For further explanation see the Coastal Hazard Technical Guide.
6. Where noted on Table 1 (and the map) the specified linear distance applies except where a revetment has been constructed and maintained to the approved design in which case the landward boundary of the erosion prone area is at the upper seaward edge of the revetment (A-line).
7. The approximate erosion prone area footprint is shown on Coastal Hazard Area Maps available on the Department of Environment and Heritage Protection website at www.ehp.qld.gov.au. These footprints are indicative only and the definition in this plan prevails for any inconsistency between the two.
8. This erosion prone area plan may be updated from time to time and a new revision created. Please check with the Department of Environment and Heritage Protection or the local government that this copy is the current version prior to using the contained information in any way.

Date of Erosion Prone Area Declaration: 8 July 2015 **Date of Erosion Prone Area Amendment:**	**Plan No: YAS3A**

YAS3A Table 1: Linear distances for the erosion prone area and the specific location of each segment

Erosion prone area segment number	Segment start latitude (degrees)	Segment start longitude (degrees)	Segment end latitude (degrees)	Segment end longitude (degrees)	Erosion prone area linear distance (Width in metres)
YAS001	145.96507	-17.17027	145.95199	-17.15381	0m
YAS002	145.95199	-17.15381	145.95264	-17.14641	165m
YAS003	145.95264	-17.14641	145.92297	-17.10869	0m
YAS004	145.92297	-17.10869	145.91704	-17.08924	165m
YAS005	145.91704	-17.08924	145.89251	-17.06546	0m
YAS006	145.89251	-17.06546	145.89841	-17.01013	165m
YAS007	145.89841	-17.01013	145.89982	-17.00779	400m
YAS008	145.89982	-17.00779	145.89684	-16.99748	0m
YAS009	145.89684	-16.99748	145.89878	-16.99253	115m
YAS010	145.89878	-16.99253	145.89803	-16.99015	0m
YAS011	145.89803	-16.99015	145.90041	-16.98352	115m
YAS012	145.90041	-16.98352	145.90060	-16.98213	0m
YAS013	145.90060	-16.98213	145.90115	-16.98014	165m
YAS014	145.90115	-16.98014	145.90724	-16.97217	400m
YAS015	145.90724	-16.97217	145.92772	-16.95031	165m
YAS016	145.92772	-16.95031	145.92938	-16.92838	0m
YAS017	145.92938	-16.92838	145.94389	-16.90625	150m
YAS018	145.94389	-16.90625	145.91669	-16.86880	0m
YAS019	145.91669	-16.86880	145.91862	-16.87422	130m
YAS020	145.91862	-16.87422	145.90866	-16.88886	400m
YAS021	145.90866	-16.88886	145.90560	-16.89690	130m
YAS022	145.90560	-16.89690	145.89662	-16.89668	0m
YAS023	145.89662	-16.89668	145.88251	-16.90708	400m
YAS024	145.88251	-16.90708	145.86158	-16.90139	130m
YAS025	145.86158	-16.90139	145.85329	-16.87960	0m



Erosion Prone Area Linear Distances and their Locations for Yarrabah Shire Local Government Area

YAS3A Map 1

Note:
This map is a representation of the erosion prone area segment locations provided in Table 1 and should be used as a guide only.

Disclaimer:
Whilst every care is taken to ensure the accuracy of this product, the Department of Environment and Heritage Protection makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you may incur as a result of the product being inaccurate or incomplete in any way and for any reason.

YaS006 100m Segment number and linear distance for erosion prone area

Erosion Prone Area segment start/stop location

Roads

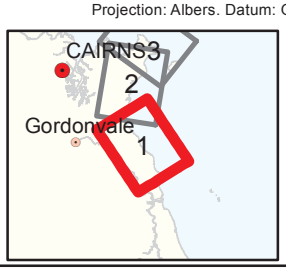
Queensland coast

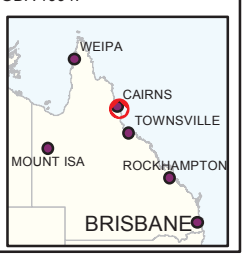
Cadastral boundaries

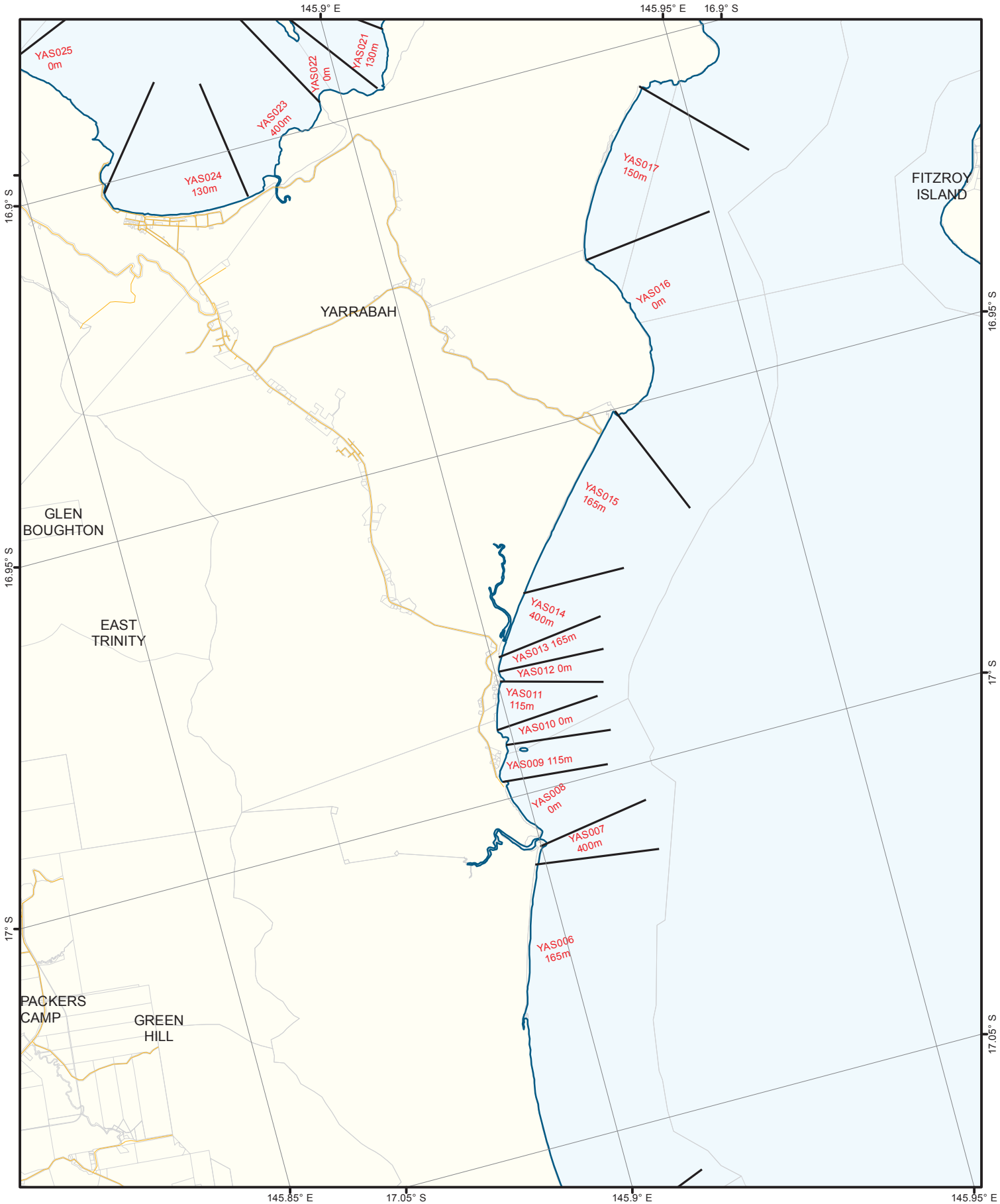
0 0.5 1 2 3 4
Kilometres

Queensland Government

Projection: Albers. Datum: GDA 1994.







Erosion Prone Area Linear Distances and their Locations for Yarrabah Shire Local Government Area

YAS3A Map 2

Note:
This map is a representation of the erosion prone area segment locations provided in Table 1 and should be used as a guide only.

Disclaimer:
Whilst every care is taken to ensure the accuracy of this product, the Department of Environment and Heritage Protection makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you may incur as a result of the product being inaccurate or incomplete in any way and for any reason.

YaS006 Segment number and linear
100m distance for erosion prone area

Erosion Prone Area segment start/stop location

Roads

Queensland coast

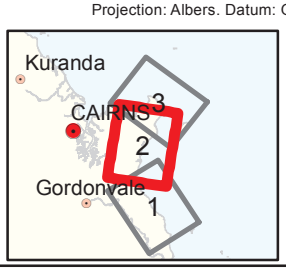
Cadastral boundaries

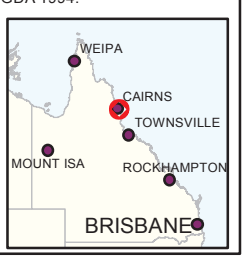
N

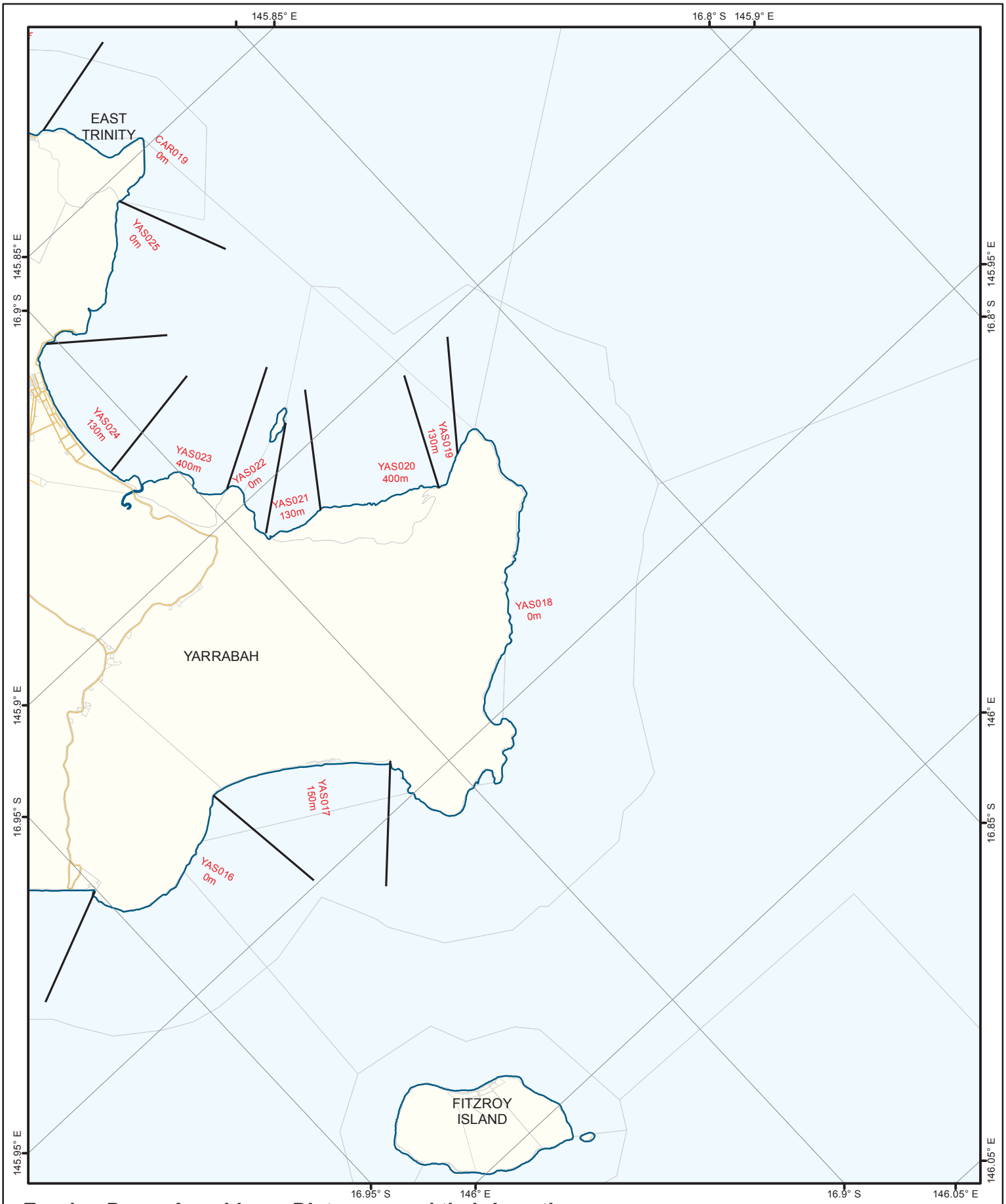
0 0.5 1 2 3 4
Kilometres

Queensland Government

Projection: Albers. Datum: GDA 1994.







Erosion Prone Area Linear Distances and their Locations for Yarrabah Shire Local Government Area

YAS3A Map 3

Note:
This map is a representation of the erosion prone area segment locations provided in Table 1 and should be used as a guide only.

Disclaimer:
Whilst every care is taken to ensure the accuracy of this product, the Department of Environment and Heritage Protection makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you may incur as a result of the product being inaccurate or incomplete in any way and for any reason.

YaS006 Segment number and linear
100m distance for erosion prone area

Erosion Prone Area segment start/stop location

Roads

Queensland coast

Cadastral boundaries

0 0.5 1 2 3 4
Kilometres

Queensland Government

Projection: Albers. Datum: GDA 1994.