## Erosion Prone Area Cook 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 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;
  - a line located by the linear distance shown on Table 1 and measured, unless specified otherwise, inland from:
    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
    - 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:



# COS3A Table 1: Linear distances for the erosion prone area and the specific location of each segment

Erosion prone area segment number	Segment start longitude (degrees)	Segment start latitude (degrees)	Segment end longitude (degrees)	Segment end latitude (degrees)	Erosion prone area linear distance (Width in metres)
COS001	145.36285	-15.92179	145.35666	-15.90862	400m
COS002	145.35666	-15.90862	145.36083	-15.87923	125m
COS003	145.36083	-15.87923	145.36523	-15.86410	400m
COS004	145.36523	-15.86410	145.37481	-15.84775	125m
COS005	145.37481	-15.84775	145.35238	-15.80849	0m
COS006	145.35238	-15.80849	145.36287	-15.77840	110m Possible Bedrock
COS007	145.36287	-15.77840	145.36660	-15.75959	0m
COS008	145.36660	-15.75959	145.33190	-15.66588	70m Possible Bedrock
COS009	145.33190	-15.66588	145.31713	-15.65418	0m
COS010	145.31713	-15.65418	145.31498	-15.63785	70m Possible Bedrock
COS011	145.31498	-15.63785	145.31595	-15.61788	0m
COS012	145.31595	-15.61788	145.32410	-15.60283	70m Possible Bedrock
COS013	145.32410	-15.60283	145.31952	-15.58477	0m
COS014	145.31952	-15.58477	145.32082	-15.58220	70m Possible Bedrock
COS015	145.32082	-15.58220	145.31754	-15.57546	0m
COS016	145.31754	-15.57546	145.31820	-15.57376	70m Possible Bedrock
COS017	145.31820	-15.57376	145.30218	-15.55267	0m
COS018	145.30218	-15.55269	145.28698	-15.55947	400m
COS019	145.28698	-15.55947	145.28186	-15.54920	110m Possible Bedrock
COS020	145.28186	-15.54920	145.26993	-15.53720	0m
COS021	145.26993	-15.53720	145.27204	-15.52241	400m
COS022	145.27204	-15.52241	145.28077	-15.50211	125m
COS023	145.28077	-15.50211	145.27825	-15.49564	0m
COS024	145.27825	-15.49564	145.27490	-15.49040	110m
COS025	145.27490	-15.49040	145.26643	-15.47186	0m
COS026	145.26643	-15.47186	145.26319	-15.46891	80m
COS027	145.26319	-15.46891	145.26225	-15.46486	0m
COS028	145.26225	-15.46486	145.26210	-15.46284	70m Possible Bedrock
COS029	145.26210	-15.46284	145.24958	-15.46191	0m
COS030	145.24958	-15.46191	145.23911	-15.45185	400m
COS031	145.22335	-14.83541	144.95347	-14.73489	400m
COS032	144.95347	-14.73489	144.95129	-14.68323	125m
COS033	144.95129	-14.68323	144.93833	-14.66551	80m Possible Bedrock
COS034	144.93833	-14.66551	144.92509	-14.66485	125m
COS035	144.92509	-14.66485	144.92210	-14.65512	400m
COS036	144.92210	-14.65512	144.92256	-14.63796	125m
COS037	144.92256	-14.63796	144.91875	-14.63282	125m
COS038	144.91875	-14.63282	144.83273	-14.61356	400m
COS039	144.83273	-14.61356	144.82775	-14.60776	0m
COS040	144.82775	-14.60776	144.81707	-14.60856	400m
COS041	144.81707	-14.60856	144.80754	-14.60019	125m
COS042	144.80754	-14.60019	144.78200	-14.59295	400m
COS043	144.78200	-14.59295	144.77766	-14.55768	125m

COS044	144.77766	-14.55768	144.77679	-14.55636	0m
COS045	144.77679	-14.55636	144.77505	-14.55014	110m
COS046	144.77505	-14.55014	144.76330	-14.55263	0m
COS047	144.76330	-14.55263	144.74210	-14.55494	125m
COS048	144.74210	-14.55494	144.68994	-14.55324	400m
COS049	144.68994	-14.55324	144.67114	-14.52519	125m
COS050	144.67114	-14.52519	144.66371	-14.51224	0m
COS051	144.66371	-14.51224	144.62697	-14.48712	125m
COS052	144.62697	-14.48712	144.61914	-14.46278	400m
COS053	144.61914	-14.46278	144.64019	-14.38078	125m
COS054	144.64019	-14.38078	144.64361	-14.37534	0m
COS055	144.64361	-14.37534	144.64624	-14.37274	110m
COS056	144.64624	-14.37274	144.63849	-14.35585	0m
COS057	144.63849	-14.35585	144.62200	-14.36253	400m
COS058	144.62200	-14.36253	144.61385	-14.35992	125m
COS059	144.61385	-14.35992	144.60609	-14.36346	0m
COS060	144.60609	-14.36346	144.58696	-14.36030	400m
COS061	144.58696	-14.36030	144.58662	-14.33024	125m
COS062	144.58662	-14.33024	144.58484	-14.32869	0m
COS063	144.58484	-14.32869	144.58490	-14.31499	125m
COS064	144.58490	-14.31499	144.58364	-14.31354	0m
COS065	144.58364	-14.31354	144.58386	-14.29391	125m
COS066	144.58386	-14.29391	144.58821	-14.28299	400m
COS067	144.58821	-14.28299	144.59404	-14.26616	125m
COS068	144.59404	-14.26616	144.59517	-14.26235	110m
COS069	144.59517	-14.26235	144.57735	-14.24901	0m
COS070	144.57735	-14.24901	144.57548	-14.23941	125m
COS071	144.57548	-14.23941	144.57300	-14.23515	400m
COS072	144.57300	-14.23515	144.55835	-14.22930	0m
COS073	144.55835	-14.22930	144.52406	-14.17041	125m
COS074	144.52406	-14.17041	144.51847	-14.16841	0m
COS075	144.51847	-14.16841	144.49807	-14.16658	125m
COS076	144.49807	-14.16658	144.49125	-14.17092	0m
COS077	144.49125	-14.17092	144.44678	-14.24883	125m
COS078	144.44678	-14.24883	144.38171	-14.28672	400m
COS079	144.38171	-14.28672	144.35806	-14.29552	125m
COS080	144.35806	-14.29552	144.31381	-14.30849	400m
COS081	144.31381	-14.30849	144.29642	-14.30101	125m
COS082	144.29642	-14.30101	144.28573	-14.30352	0m
COS083	144.28573	-14.30352	144.25555	-14.27785	125m
COS084	144.25555	-14.27785	144.23729	-14.26844	0m
COS085	144.23729	-14.26844	144.22254	-14.25991	110m
COS086	144.22254	-14.25991	144.21461	-14.25557	0m
COS087	144.21461	-14.25557	144.21326	-14.25674	110m
COS088	144.21326	-14.25674	144.21044	-14.26100	0m
COS089	144.21044	-14.26100	144.20582	-14.26227	110m
COS090	144.20582	-14.26227	144.19500	-14.26341	0m
COS090	144.19500	-14.26341	144.19300	-14.26441	110m
COS092	144.19467	-14.26441	144.19758	-14.26679	0m
COS092	144.19407	-14.26679	144.19738	-14.20079	110m
COS093	144.19699	-14.27167	144.19099	-14.27107	0m
COS094	144.19099	-14.27107	144.20031	-14.27534	125m
CO2020	144.20031	-14.2/004	144.20000	-14.23000	

COS096	144.20085	-14.29538	143.71807	-14.24366	400m
COS097	143.71807	-14.24366	143.70167	-14.15732	125m
COS098	143.70167	-14.15732	143.69266	-14.08968	125m
COS099	143.69266	-14.08968	143.68905	-14.06177	400m
COS100	143.68905	-14.06177	143.67806	-14.01180	125m
COS100	143.67806	-14.01180	143.62072	-13.96128	400m
COS101	143.62072	-13.96128	143.54321	-13.71154	125m
COS102	143.54321	-13.71154	143.54528	-13.69365	400m
COS103	143.54521	-13.69365	143.54528	-13.56046	125m
COS104	143.54528	-13.56046	143.57554		400m
COS105	143.57554	-13.55364	143.58020	-13.55364 -13.54659	125m
COS100	143.58020	-13.53504	143.58677	-13.53910	400m
COS107	143.58677	-13.53910	143.58639	-13.53204	125m
COS108	143.58639	-13.53910	143.58059	-13.51444	95m
COS109	143.58059	-13.51444	143.58237	-13.42331	125m
COS110	143.58257	-13.42331	143.59615	-13.42351	30m Possible Bedrock
COS112		-13.42551			125m
	143.59615		143.59568	-13.41622	
COS113	143.59568	-13.41622	143.59459	-13.41224	30m Possible Bedrock
COS113a	143.36018	-12.79475	143.36331	-12.78246	125m
COS113b	143.36331	-12.78246	143.36553	-12.77740	400m
COS113c	143.36553	-12.77740	143.38508	-12.72689	125m
COS114	143.38508	-12.72689	143.38616	-12.72382	400m
COS115	143.38616	-12.72382	143.39160	-12.71317	125m
COS116	143.39160	-12.71317	143.39563	-12.70764	0m
COS117	143.39563	-12.70764	143.39705	-12.70396	125m
COS118	143.39705	-12.70396	143.39758	-12.70171	0m
COS119	143.39758	-12.70171	143.39987	-12.69775	125m
COS120	143.39987	-12.69775	143.41130	-12.67879	0m
COS121	143.41130	-12.67879	143.40479	-12.68018	80m Possible Bedrock
COS122	143.40479	-12.68018	143.40223	-12.67718	400m
COS123	143.40223	-12.67718	143.43517	-12.62442	125m
COS124	143.43517	-12.62442	143.43583	-12.62420	0m
COS125	143.43583	-12.62420	143.43733	-12.62339	110m
COS126	143.43733	-12.62339	143.43749	-12.62229	0m
COS127	143.43749	-12.62229	143.43826	-12.61425	80m Possible Bedrock
COS128	143.43826	-12.61425	143.43644	-12.61221	0m
COS129	143.43644	-12.61221	143.42677	-12.61340	125m
COS130	143.42677	-12.61340	143.41710	-12.61159	400m
COS131	143.41710	-12.61159	143.41812	-12.60889	80m Possible Bedrock
COS132	143.41812	-12.60889	143.41892	-12.60285	0m
COS133	143.41892	-12.60285	143.41556	-12.59658	70m Possible Bedrock
COS134	143.41556	-12.59658	143.41172	-12.59603	0m
COS135	143.41172	-12.59603	143.35946	-12.57137	30m Possible Bedrock
COS136	143.35946	-12.57137	143.35640	-12.56566	125m
COS137	143.35640	-12.56566	143.35301	-12.56461	0m
COS138	143.35301	-12.56461	143.35129	-12.56526	110m
COS139	143.35129	-12.56526	143.34724	-12.56758	125m
COS140	143.34724	-12.56758	143.29923	-12.54636	400m
COS141	143.29923	-12.54636	143.29687	-12.53517	125m
COS142	143.29687	-12.53517	143.29149	-12.53284	0m
COS143	143.29149	-12.53284	143.28770	-12.53025	400m
COS144	143.28770	-12.53025	143.28716	-12.52456	110m

COS145	143.28716	-12.52456	143.28519	-12.51966	70m Possible Bedrock
COS146	143.28519	-12.51966	143.27271	-12.51166	30m Possible Bedrock
COS147	143.27271	-12.51166	143.27117	-12.50101	125m
COS148	143.27117	-12.50101	143.27415	-12.49332	400m
COS149	143.27415	-12.49332	143.27603	-12.48188	125m
COS150	143.27603	-12.48188	143.27529	-12.47659	110m
COS151	143.27529	-12.47659	143.27418	-12.47375	0m
COS152	143.27418	-12.47375	143.27187	-12.46804	110m
COS153	143.27187	-12.46804	143.27730	-12.45280	125m
COS154	143.27730	-12.45280	143.27095	-12.43828	0m
COS155	143.27095	-12.43828	143.27176	-12.42762	110m
COS156	143.27176	-12.42762	143.27086	-12.42478	0m
COS157	143.27086	-12.42478	143.27236	-12.41226	110m
COS158	143.27236	-12.41226	143.26709	-12.40436	0m
COS159	143.26709	-12.40436	143.26628	-12.39460	110m
COS160	143.26628	-12.39460	143.24956	-12.39190	125m
COS161	143.24956	-12.39190	143.24739	-12.37974	110m
COS162	143.24739	-12.37974	143.23860	-12.38412	125m
COS163	143.23860	-12.38412	143.23476	-12.38360	400m
COS164	143.23476	-12.38360	143.21802	-12.36910	125m
COS165	143.21802	-12.36910	143.21573	-12.36434	70m Possible Bedrock
COS166	143.21573	-12.36434	143.20437	-12.36155	0m
COS167	143.20437	-12.36155	143.19539	-12.35338	80m Possible Bedrock
COS168	143.19539	-12.35338	143.19460	-12.35164	400m
COS169	143.19460	-12.35164	143.19386	-12.35002	0m
COS170	143.19386	-12.35002	143.18144	-12.34852	110m
COS171	143.18144	-12.34852	143.18029	-12.34517	400m
COS172	143.18029	-12.34517	143.17807	-12.34407	0m
COS173	143.17807	-12.34407	143.17514	-12.34404	400m
COS174	143.17514	-12.34404	143.17185	-12.34539	0m
COS175	143.17185	-12.34539	143.16710	-12.34718	400m
COS176	143.16710	-12.34718	143.16589	-12.34559	0m
COS177	143.16589	-12.34559	143.16485	-12.34489	110m
COS178	143.16485	-12.34489	143.16337	-12.34599	0m
COS179	143.16337	-12.34599	143.07954	-12.34302	400m
COS180	143.07954	-12.34302	143.09330	-12.25841	125m
COS181	143.09330	-12.25841	143.09370	-12.25656	0m
COS182	143.09370	-12.25656	143.09416	-12.25467	30m
COS183	143.09416	-12.25467	143.08994	-12.25145	0m
COS184	143.08994	-12.25145	143.09389	-12.22226	125m
COS185	143.09389	-12.22226	143.09379	-12.22220	70m Possible Bedrock
COS185	143.09379	-12.22220	143.09379	-12.20360	110m
COS180	143.09400	-12.20360	143.09400	-12.20300	0m
COS187	143.08967	-12.20300	143.08907	-12.18572	110m
COS189	143.09267	-12.18572	143.09207	-12.18372	0m
COS189	143.09230	-12.18372	143.09230	-12.17366	110m
COS190	143.09230	-12.18348	143.09393	-12.17300	0m
COS191 COS192	143.09393	-12.17366	143.08906	-12.17455	400m
COS193	143.08901	-12.15881	143.11913	-12.11356	125m
COS194	143.11913	-12.11356	143.11904	-12.11192	0m 125m
COS195	143.11904	-12.11192	143.13291	-12.09132	125m
COS196	143.13291	-12.09132	143.13474	-12.08829	0m

COS197	143.13474	-12.08829	143.13618	-12.08671	110m
COS198	143.13618	-12.08671	143.13520	-12.08511	0m
COS199	143.13520	-12.08511	143.21890	-11.97972	125m
COS200	143.21890	-11.97972	143.22060	-11.98045	80m Possible Bedrock
COS201	143.22060	-11.98045	143.22792	-11.98772	0m
COS202	143.22792	-11.98772	143.23600	-11.98538	80m Possible Bedrock
COS203	143.23600	-11.98538	143.23611	-11.98283	0m
COS204	143.23611	-11.98283	143.24074	-11.97756	80m Possible Bedrock
COS205	143.24074	-11.97756	143.23737	-11.96549	0m
COS206	143.23737	-11.96549	143.23132	-11.96240	80m Possible Bedrock
COS207	143.23132	-11.96240	143.22977	-11.96023	0m
COS208	143.22977	-11.96023	143.22695	-11.95676	80m Possible Bedrock
COS209	143.22695	-11.95676	143.21909	-11.95625	0m
COS210	143.21909	-11.95625	143.21425	-11.95886	80m Possible Bedrock
COS211	143.21425	-11.95886	143.20984	-11.96192	0m
COS212	143.20984	-11.96192	143.16701	-11.96988	400m
COS213	143.16701	-11.96988	143.16137	-11.95471	95m
COS214	143.16137	-11.95471	143.16109	-11.95360	0m
COS215	143.16109	-11.95360	143.15135	-11.94672	80m Possible Bedrock
COS216	143.15135	-11.94672	143.14980	-11.94403	400m
COS217	143.14980	-11.94403	143.14865	-11.94224	80m Possible Bedrock
COS218	143.14865	-11.94224	143.14650	-11.92287	125m
COS219	143.14650	-11.92287	143.14307	-11.91857	0m
COS220	143.14307	-11.91857	143.13724	-11.91288	80m Possible Bedrock
COS221	143.13724	-11.91288	143.13223	-11.91108	0m
COS222	143.13223	-11.91108	143.12221	-11.90585	80m Possible Bedrock
COS223	143.12221	-11.90585	143.12081	-11.90564	Om
COS224	143.12081	-11.90564	143.11404	-11.90413	80m Possible Bedrock
COS225	143.11404	-11.90413	143.11228	-11.90405	Om
COS226	143.11228	-11.90405	143.10009	-11.89374	80m Possible Bedrock
COS227	143.10009	-11.89374	143.09772	-11.89554	0m
COS228	143.09772	-11.89554	143.02744	-11.93476	400m
COS229	143.02744	-11.93476	143.02440	-11.93541	95m
COS230	143.02440	-11.93541	143.01166	-11.93662	400m
COS231	143.01166	-11.93662	142.98052	-11.93189	95m
COS232	142.98052	-11.93189	142.91005	-11.89035	400m
COS233	142.91005	-11.89035	142.90368	-11.87696	95m
COS234	142.90368	-11.87696	142.89331	-11.87348	80m Possible Bedrock
COS235	142.89331	-11.87348	142.85251	-11.59795	125m
COS236	142.85251	-11.59795	142.84555	-11.57858	400m
COS237	142.84555	-11.57858	142.82698	-11.47943	125m
COS238	142.82698	-11.47943	142.86583	-11.37987	125m
COS239	142.86583	-11.37987	142.86219	-11.37167	110m
COS240	142.86219	-11.37167	142.86324	-11.35844	125m
COS240	142.86324	-11.35844	142.85498	-11.34256	110m
COS241	142.85498	-11.34256	142.84570	-11.32960	95m
COS242 COS243	142.83438	-11.34230	142.84370	-11.29961	125m
COS243	142.84370	-11.29961	142.82332	-11.29750	95m
COS244 COS245	142.82332	-11.29901	142.82120	-11.29730	110m
COS245 COS246	142.82120	-11.29730	142.82009	-11.29241	95m
	142.02003	-11.63641	142.01000	-11.23123	5500
COS247	142.81600	-11.29125	142.80796	-11.29414	80m Possible Bedrock

COS249	142.79404	-11.27014	142.79225	-11.24943	400m
COS250	142.79225	-11.24943	142.78669	-11.22628	125m
COS251	142.78669	-11.22628	142.78784	-11.21602	400m
COS252	142.78784	-11.21602	142.79843	-11.16436	125m
COS253	142.79843	-11.16436	142.79908	-11.15682	110m
COS254	142.79908	-11.15682	142.79681	-11.15274	0m
COS255	142.79681	-11.15274	142.79501	-11.14634	80m Possible Bedrock
COS256	142.79501	-11.14634	142.79432	-11.14504	0m
COS257	142.79432	-11.14504	142.79380	-11.14474	80m Possible Bedrock
COS258	142.79380	-11.14474	142.79203	-11.14403	0m
COS259	142.79203	-11.14403	142.78972	-11.12876	95m
COS260	142.78972	-11.12876	142.78907	-11.11685	125m
COS261	142.78907	-11.11685	142.75531	-11.03764	110m
COS262	142.75531	-11.03764	142.74917	-11.02773	0m
COS263	142.74917	-11.02773	142.74597	-10.99861	110m















































































