

MAP 8: PORT NA CHUILE TO GREENHILL

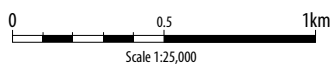
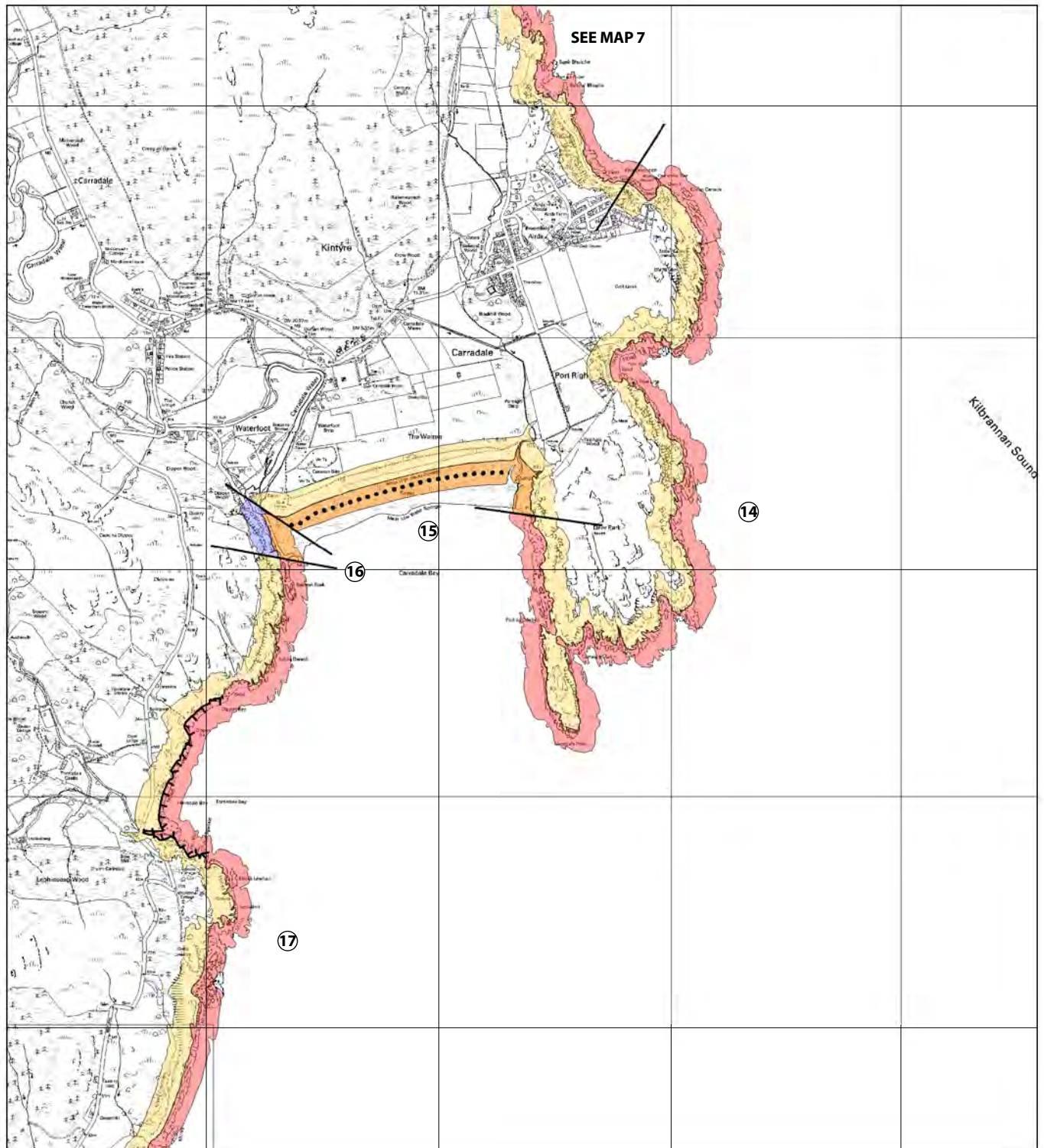
Hinterland Geology and Coastal Geomorphology: This section of coastline includes Carradale Point and Carradale Bay and a fairly sinuous rocky coastline to the south. Carradale Point including Port Righ and the immediate hinterland is dominated by the Beinn Bheula schist formations of Dalradian age. At the head of Carradale Bay raised marine deposits are well represented for well over 2km to the north and outcrop at Port Righ. Basalt dykes cross the promontory. Within Carradale Bay, dune sand formation extends inland. At the east end of the bay freshwater alluvium is confined to the outfall of the River Carradale. Raised beach deposits surround a pocket of alluvium at the head of Torrisdale Bay (NR 7980 3582). South of Torrisdale Bay the hinterland geology is dominated by schist covered by undifferentiated deposits of glacial till. Tertiary activity is represented by occasional NNW trending olivine-basalt dykes.

Erosion Class: The main areas of erosion recorded during the survey are at Port Righ, Carradale Bay and Torrisdale Bay. At Port Righ boulder dump sea defence works are offering some protection at the MHWMSST area but slope failure of the cliff above is occurring. These cliffs, being dominated by marine sediment and slope-wash are highly exposed to rill-erosion. At Carradale Bay visitor erosion of the dune cliff is the main problem. At least 30-40m of exposed cliff is actively eroding. Elsewhere along the bay, local pathways cut through the dune sands have been formed, providing areas where erosion has got a foothold. At Torrisdale Bay and Dippen Bay to the north, active erosion was noted. Here wave hammer action is affecting the structurally weak cliff. A pier is severely eroding here and the remains of a 19th century house are falling into the sea.

Built Heritage & Archaeology: There are numerous sites within this section which perhaps suggest a long history of settlement within this area. Several shipwrecks have been identified off this section of coast, mostly dating to between the 18th and 19th centuries. There are also many sites associated with seafaring along this section such as the pier in Torrisdale Bay. Most of the sites lie either on the coast edge or the foreshore making them more susceptible to erosion. This may explain why there are several sites that have been identified as being at risk and many more that have been recommended for monitoring.

KINTYRE MAP 8: HINTERLAND GEOLOGY AND COASTAL GEOMORPHOLOGY

ID	Name of section	NGR	Length	Typical deposit type on the foreshore	Height of cliff	Hinterland geomorphology	Description
14	CARRADALE POINT	NR 818 387 to NR 814 372	3.7km	Marine deposits.	Cliff (<10m)	Marine deposits and exposed rock platform.	Rocky promontory with indented shoreline. This coastal cell includes the sheltered bay of Port Righ, behind which lies undifferentiated river terrace deposits formed by fluvio-glacial processes. Towards Port Crannaich, a small headland has dyke intrusions.
15	CARRADALE BAY	NR 814 372 to NR 802 372	1.2km	Freshwater alluvium/windblown sand.	Low edge (<5m)	Sand.	Freshwater alluvium and river terrace deposits dominate the hinterland and have been distributed by the Carradale Water that outfalls. The near shore area comprises windblown sand forming warren. The beach comprises wide sand flats.
16	CARRADALE BAY	NR 802 372 to NR 802 370	0.2km	Freshwater alluvium/windblown sand.	Low edge (<10m)	Mainly sand.	The foreshore comprises mostly of blown sand with a raised beach hinterland.
17	DIPPEN BAY TO SADDELL BAY	NR 802 370 to NR 796 318	5.7km	Marine deposits.	Low edge (<10m)	Till and rock platforms.	The shoreline is highly irregular with a series of small embayments formed as a result of the unconformity between the quartzite dominated rock and the more resilient bedrock. Raised marine deposits are represented with glacial till, mainly thin clays present. The shoreline consists of mainly rock skerries and shingle beds at shoreline.

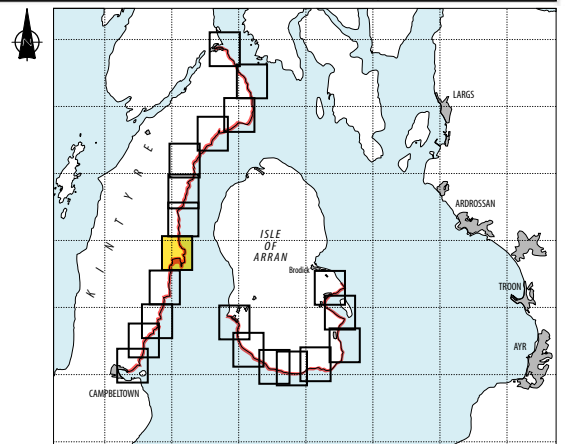


LEGEND

- Drift, boulder clay over visible rock
- Raised beach and marine deposits
- Blown sand
- Mainly rock platform
- Mainly sand

Coast Edge

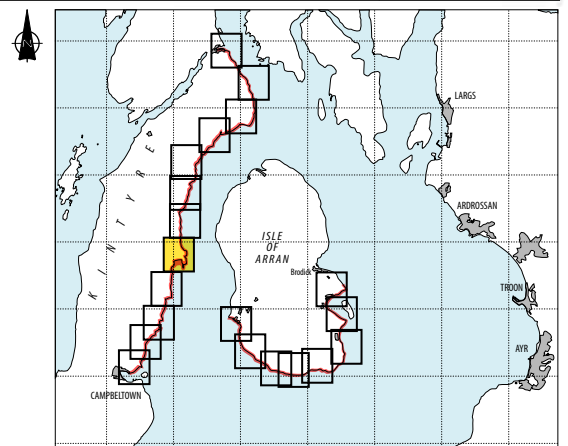
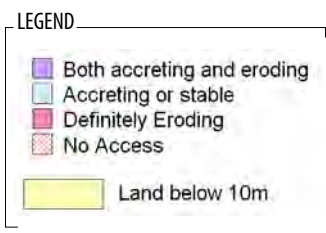
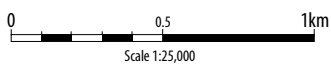
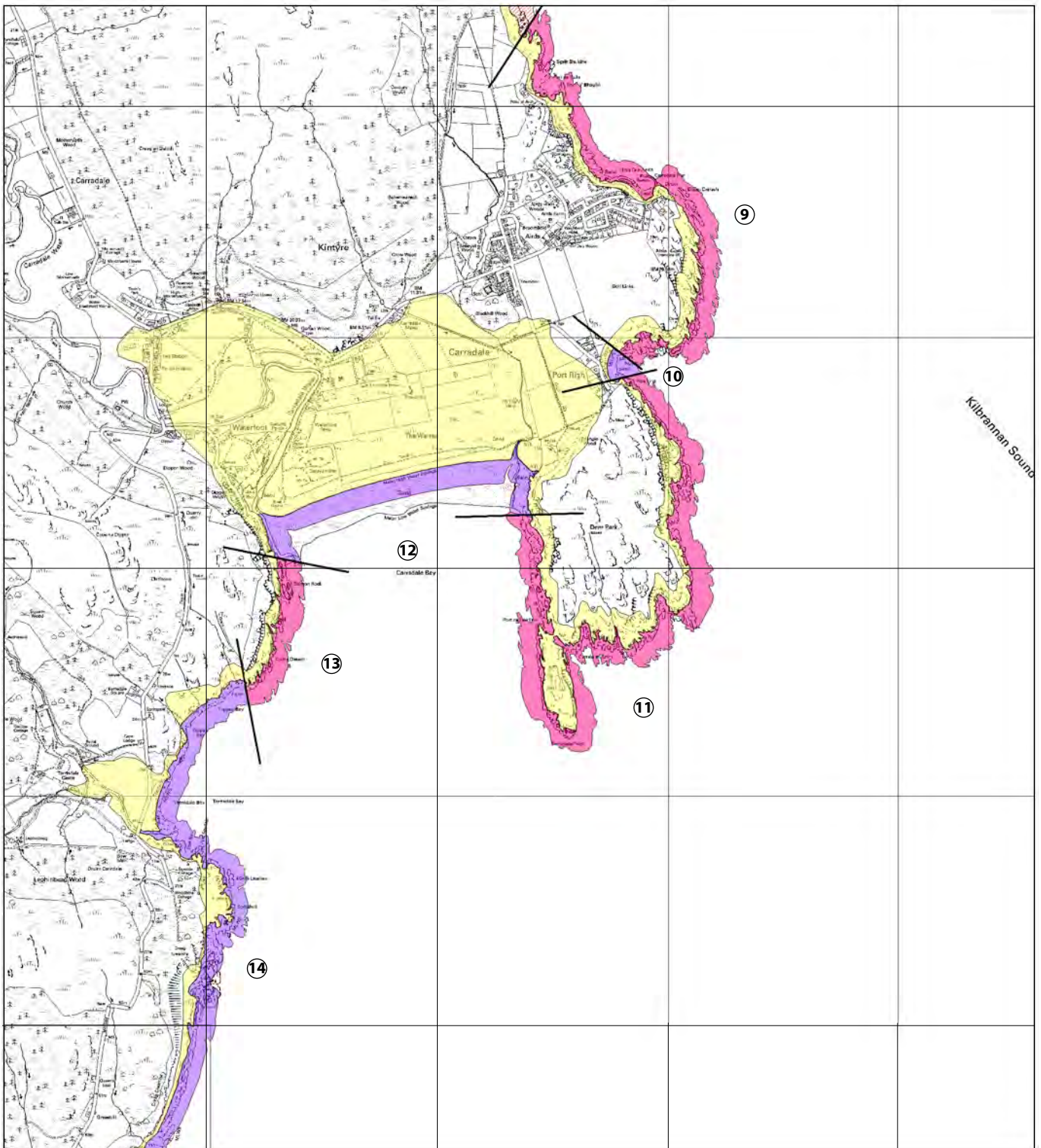
- Man made barrier
- Shingle/storm bank



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KINTYRE MAP 8: EROSION

ID	Name of coastal section	NGR	Length of coastal section	Type of erosion present	Description
9	Port na Cuile to Port Righ	NR 814 392 to NR 818 379	1.9km	Definitely eroding	Erosion on shore platforms with boulders and sand in more sheltered areas.
10	Port Righ	NR 818 379 to NR 818 398	0.2km	Eroding and accreting	1m high erosion section exposed.
11	Port Righ to Carradale Bay	NR 818 398 to NR 814 372	2.2km	Definitely eroding	Carradale Point - Exposed promontory receiving direct wave impact, eroding albeit slowly.
12	Carradale Bay	NR 814 372 to NR 804 370	1.8km	Eroding and accreting	Erosion evident along length of beach, especially at mouths of burns and Carradale Water which flow into the bay.
13	Carradale Bay to Dippin Bay	NR 804 370 to NR 802 365	0.6km	Definitely eroding	Scouring at MHW, mainly accreting shingle
14	Dippin Bay to Ugadale Point	NR 802 365 to NR 784 284	9.1km	Eroding and accreting	Both natural and animal erosion evident at Dippin Bay. Severe erosion at Torrisdale Bay, especially at site 100 . Torrisdale Bay to Saddell Bay - Exposed abrasion platforms with deep gullies filled with boulders, shingle and sand. Shingle present at the MHW.



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KINTYRE MAP 8: BUILT HERITAGE AND ARCHAEOLOGY

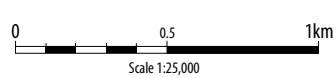
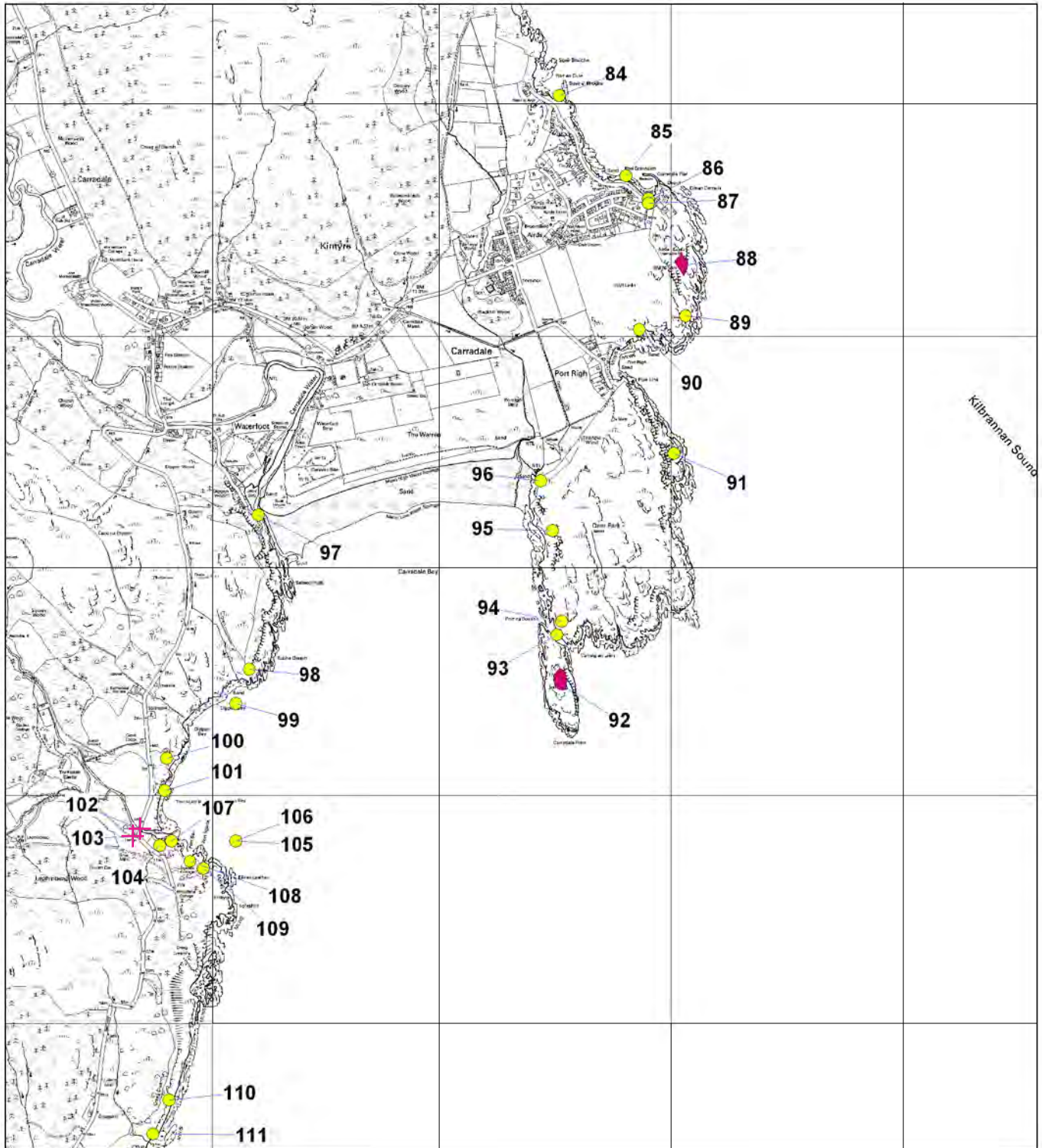
Sites on the Coast Edge and Foreshore

ID	Name	NMRS	Source	WoSAS Pin	NGR	Status	Type	Condition	Date	Recommendation
84	Sgeir a' Bhogha		Fieldwalking		NR 8151 3905		Pier	Eroding	18th-20th C	Monitor
85	Mary McColl: Carradale Pier	NR83NW 8009	NMRS		NR 818 387		Shipwreck	Unknown	1882	Nil
90	Port Righ		Fieldwalking		NR 8186 3803		Platform	Good	Unknown	Nil
91	Port Righ		Fieldwalking		NR 8201 3749		Possible Boathouse	Poor	18th-20th C	Nil
93	Carradale Point		Fieldwalking		NR 8150 3670		Causeway	Fair	Unknown	Survey
96	Carradale Bay		Fieldwalking		NR 8143 3737		Building; Wall	Fair	18th-20th C	Survey
97	Carradale Bay		OS 2nd ed		NR 8020 3722		Jetty	Eroding	18th-20th C	Survey
99	Dippen Bay	NR83NW 8	NMRS		NR 801 364		Stone	Good	20th C	Nil
100	Springwell Cottage		Fieldwalking		NR 7980 3616		Cottage	Eroding	18th-20th C	Survey
101	Torrisdale Bay		Fieldwalking		NR 7979 3602		Pier	Eroding	18th-20th C	Survey
105	Priscilla: Torrisdale Bay	NR83SW 8001	NMRS		NR 801 358		Shipwreck	Unknown	18th-20th C	Nil
106	Jane Taylor: Torrisdale Bay	NR83SW 8004	NMRS		NR 801 358		Shipwreck	Unknown	18th-20th C	Nil
107	Torrisdale Bay		Fieldwalking		NR 7982 3580		Rock shelter	Good	Unknown	Monitor
108	Torrisdale Bay		Fieldwalking		NR 7990 3571		Boathouse	Fair	18th-20th C	Monitor
109	Torrisdale Bay		Fieldwalking		NR 7996 3568		Jetty	Fair	18th-20th C	Monitor
110	Greenhill		Fieldwalking		NR 7981 3467		Rock shelter; Potato House	Good	Unknown	Monitor
111	Greenhill		Fieldwalking		NR 7974 3452		Rock shelter; Potato House	Good	Unknown	Monitor

Sites in the Hinterland

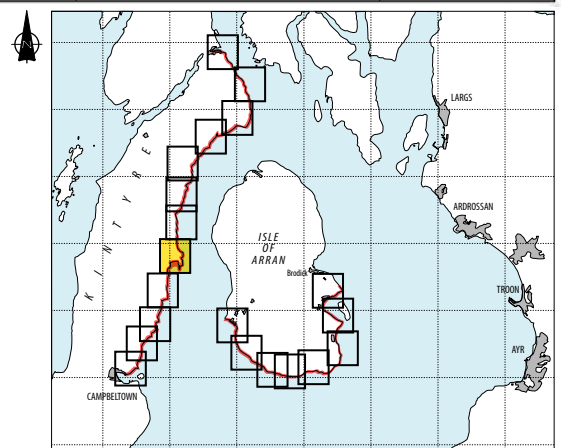
ID	Name	NMRS	Source	WoSAS Pin	NGR	Status	Type	Condition	Date	Recommendation
86	Port Crannaich	NR83NW 6	NMRS	3817	NR 819 386		Bloomery Mound	Unknown	11th-15th C	Nil
87	Carradale		OS 1st ed		NR 8190 3858		Milestone	Good	18th-20th C	Nil
88	Aird's Castle	NR83NW 2	NMRS	3813	NR 8203 3831	Scheduled 3177	Defence; Residential	Poor	11th-15th C	Nil
89	Aird's Castle		Fieldwalking		NR 8206 3809		Wall	Fair	Unknown	Nil

92	Carradale Point	NR83NW 1	NMRS	3812	NR 8151 3649	Scheduled 2180	Fort	Fair	1st Mill BC-5th C AD	Monitor
94	Carradale		Fieldwalking		NR 8152 3676		Building	Good	18th-20th C	Nil
95	Carradale		Fieldwalking		NR 8148 3715		Enclosure	Fair	Unknown	Nil
98	Dippen Bay		Fieldwalking		NR 8016 3655		Stone wall	Good	18th-20th C	Nil
102	Torrisdale Bridge	NR73NE 23	NMRS		NR 7968 3585	Listed B HBNum 18401	Road Bridge	Good	1840	Nil
103	Gate Lodge	NR73NE 8.01	NMRS		NR 7965 3582	Listed B HBNum 18400	Residential	Good	19th C	Nil
104	Torrisdale Bay		OS 1st ed		NR 7977 3578		Building	Good	18th-20th C	Nil



LEGEND

- Protected Ancient Monument, or area of designated wreck
- Listed Historic Building
- Other known Ancient Monuments, or Undesignated wreck



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