

## Map 23: BARBRAVILLE TO EAST OF MILTOWN CASTLE

**Hinterland Geology and Coastal Geomorphology:** This unit of coastline forms the sheltered head of Nigg Bay and is underlain by Upper Old Red Sandstone. The drift cover in this area is dominated by marine deposits. Raised beach deposits are extensive forming a series of sinuous degraded cliff-lines that converge into a single cliff towards Tarbat House. A plateau below 10m OD has been formed. Development in the area is low.

**Erosion class:** Nigg Bay has extensive intertidal flats that are exposed for about 3km. The bay is sheltered according to the low-energy wave environment promoted by the position of the North Sutor cliffs which defuses the impact of wave swell from gales emanating from the NE quadrant. The backshore is predominantly banked shingle leading down to the mudflats. Gabion baskets protect the shoreline east of Milton Castle. Erosion at the base of the merse was noted, this is due to overtopping in adverse conditions.

**Built Heritage and Archaeology:** The foreshore archaeology in the south west of this area contains many examples of linear and mound type fish traps. Towards the east the foreshore sites include a target stance situated in the intertidal zone and a maritime wreck of unknown age or type. The hinterland built heritage includes the 18<sup>th</sup> century Barbaraville watermill, now a well maintained residential property and other 18<sup>th</sup> and 19<sup>th</sup> century houses in the Barbaraville village.

## Map 23: Hinterland Geology and Coastal Geomorphology

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1. South POLLO FARM to south of  
MILNTOWN CASTLE

NH 760 728

4km

Estuarine mud, sand and shingle

Low edge (<10m)

*Raised beach and marine deposits*

Unbroken stretch of coastline consisting of mud flats. The hinterland contains raised beach deposits of sand and gravel.

2. South of MILNTOWN to south of CAMPACK  
BURN

NH 780 733

2.7km

Estuarine mud/saltmarsh

Low edge (10m)

*Raised beach and marine deposits*

Upper reaches of Nigg Bay consisting of a coastal edge colonised by saltmarsh. The hinterland is defended by flood banks and is low lying. The basal deposits consist of marine derived sand and gravel.

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**MAP 23: BALINTRAD TO MILTOWN CASTLE 1:25 000**

MORAY FIRTH SURVEY Grid ref: NH 76-80/70-75

Basemap: O.S. Pathfinder Series

Sheet 133

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**HINTERLAND GEOLOGY AND FORESHORE GEOMORPHOLOGY**

Assessment date: 17 September 1998

**Hinterland:**

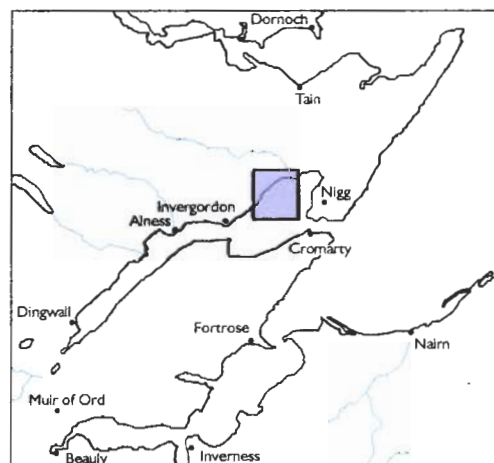
- Drift, boulder clay
- Drift, boulder clay over visible rock
- Raised beach and marine deposits
- Blown sand
- Glacial sand and gravel
- Alluvium

**Coast edge:**

- Low edge (< 5m tall)
- Cliff over 5m tall
- Man made barrier
- Shingle/storm bank
- Human disturbance

**Foreshore:**

- Mainly rock platform
- Mainly sand
- Mainly alluvial/marine mud
- Marsh



## MAP 23: EROSION

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### 1. POLLO HOUSE

NH 564457

1km

Accreting or stable

The shoreline is dominated by mud and shingle and is well exposed at low tides. There is no indication that conditions are not stable.

### 2. BARBRAVILLE

NH 749 720

0.3km

Stable and eroding

Quarried stone defences protect this small hamlet. The shoreline is mainly shingle and at the time of the survey there was no indication that conditions are not stable.

### 3. BARBRAVILLE to TARBAT MAINS

NH 758 726

1.9km

Stable

This unit of coastline consists of exposed sandstone with some rubble defences towards Tarbat Mains. The beach is stable with banked cobble and shingle leading down to accreting mudflats.

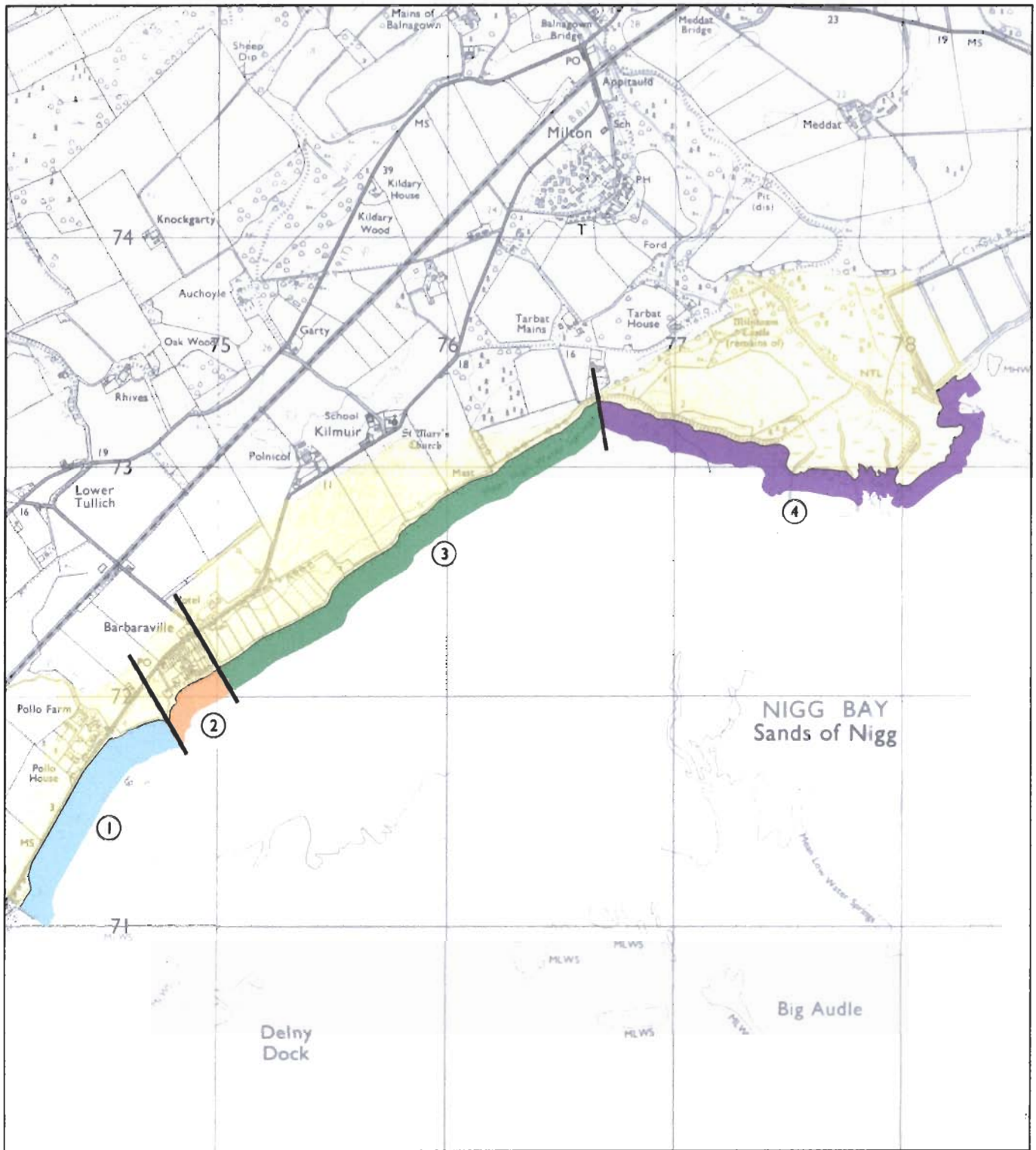
### 4. TARBAT MAINS to south of MILTON CASTLE

NH 776 730

1.2km

Both accreting and eroding

Mudflats show evidence of accretion but in parts channel migration where the Balnagowen River outfalls into the Cromarty Firth. At the MHWL shingle is banking up.



**MAP 23: BALINTRAD TO MILTOWN CASTLE 1:25 000**

MORAY FIRTH SURVEY Grid ref: NH 76-80/70-75

Basemap: O.S. Pathfinder Series Sheet 133

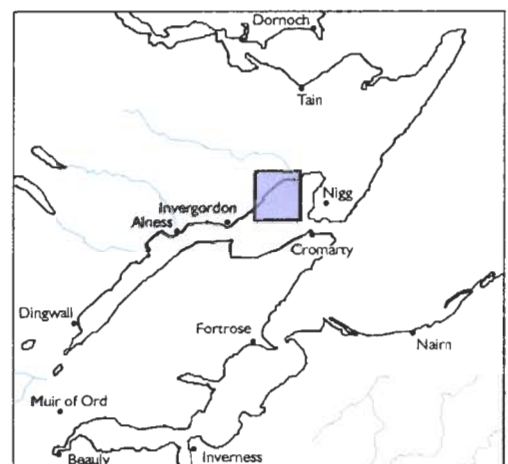
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**EROSION CLASS**

Assessment date: 17 September 1998

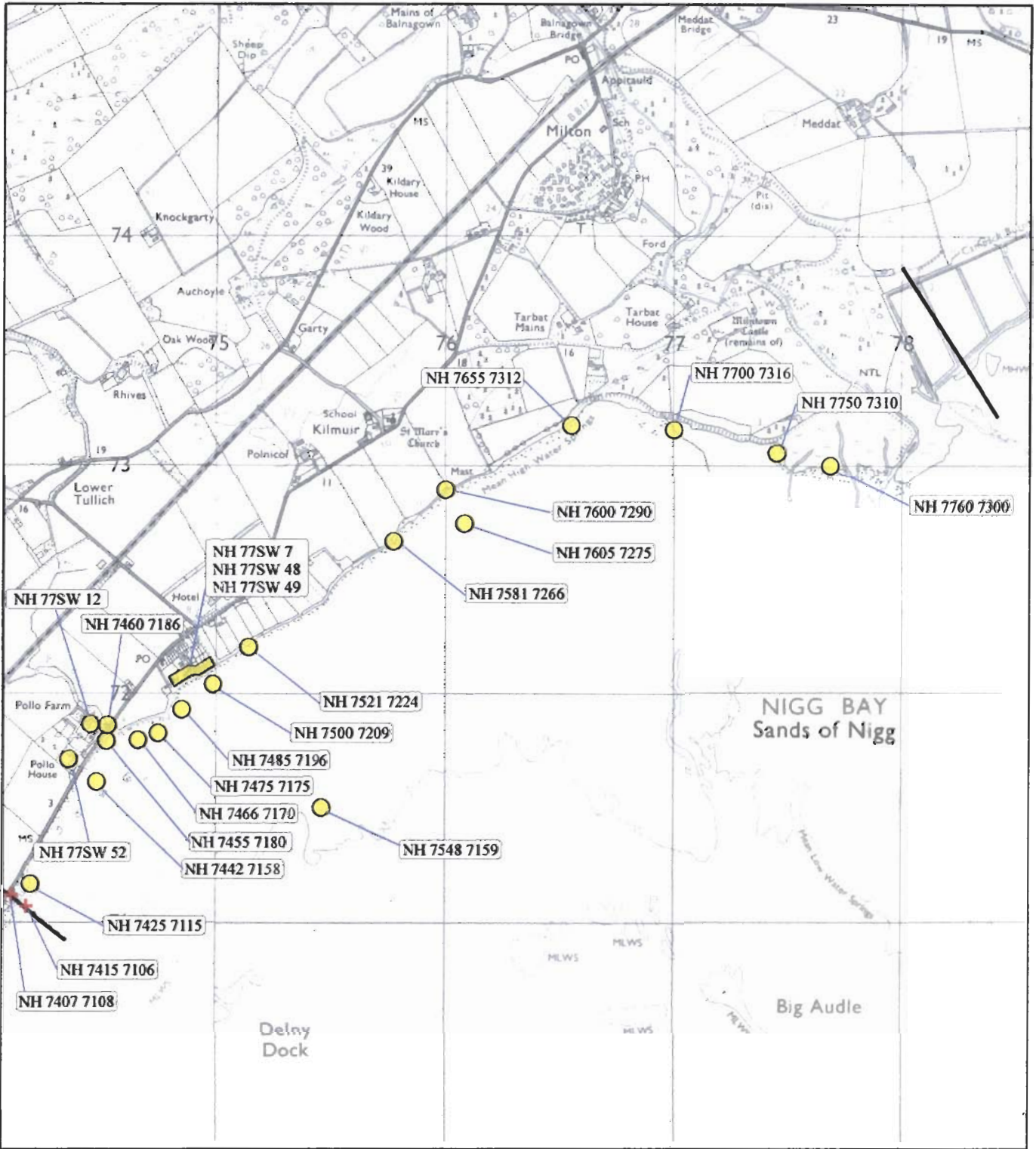
**Key:**

- Definitely accreting
- Accreting or stable
- Stable
- Eroding or stable
- Definitely eroding
- Both accreting and eroding
- No access
- Land below 10m



## MAP 23: BUILT HERITAGE AND ARCHAEOLOGY

Sites on the Coastal Edge & Foreshore	Sites on the Coastal Edge & Foreshore	Sites in the Hinterland	Sites in the Hinterland
NH 7455 7180 BARBRAVILLE Fish trap mounds Uncertain Good Survey	NH 7655 7312 TARBAT HOUSE Possible fish trap Uncertain Poor Survey	<b>NH77SW 53 - Listed C</b> NH 7407 7108 BALINTRAID PIER Residential house 19 <sup>th</sup> century AD Good Nil	NH 7548 7159 NIGG BAY Maritime craft: wreck Uncertain Poor Monitor
NH 7466 7170 BARBRAVILLE Possible fish trap mound Uncertain Good Survey	NH 7700 7316 TARBAT HOUSE Timber posts, possible fish trap Uncertain Good Survey	<b>NH77SW 52</b> NH 7435 7174 POLLO HOUSE Residential house 18 <sup>th</sup> /19 <sup>th</sup> century AD Good Nil	NH 7581 7266 KILMUIR Timber breakwater Uncertain Poor Monitor
NH 7475 7175 BARBRAVILLE Fish trap mounds Uncertain Good Survey	<b>NH 7750 7310</b> TARBAT HOUSE  Timber posts, possible fish trap Uncertain Poor Survey	<b>NH77SW 7</b> NH 7492 7211 - 7497 7213 BARBARAVILLE, Sea View Residential cottages 18 <sup>th</sup> /19 <sup>th</sup> century AD Good Nil	<b>NH 7605 7275</b> KILMUIR Military target stance 20 <sup>th</sup> century AD Poor Monitor
NH 7485 7196 BARBRAVILLE Fish trap Uncertain Good Survey	NH 7760 7300 TARBAT HOUSE Hulk 20 <sup>th</sup> century AD Poor Nil MAP 24	<b>NH77SW 48</b> NH 7497 7214 BARBARAVILLE, Rossyln Residential house 19 <sup>th</sup> century AD Good Nil	
NH 7500 7209 BARBRAVILLE Fish trap Uncertain Good Survey	<b>NH783 733- 796 738</b> MEDDAT Embankment and quarry pits 20 <sup>th</sup> century AD Fair Nil	<b>NH77SW 49</b> NH 7495 7213 BARBARAVILLE, The Shore Residential house 19 <sup>th</sup> century AD Good Nil	
NH 7521 7224 BARBRAVILLE Fish trap Uncertain Good Survey	<b>NH 7460 7186</b> BARBARAVILLE Two roofed buildings 18 <sup>th</sup> /19 <sup>th</sup> century AD Good Nil	NH 7600 7290 KILMUIR Target butts 20 <sup>th</sup> century AD, WW II Fair Nil	
<b>NH77SW 12</b> NH 7450 7186 BARBARAVILLE MILL Watermill 18 <sup>th</sup> /19 <sup>th</sup> century AD Good Nil			



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Basemap: O.S. Pathfinder Series Sheet 133

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**BUILT HERITAGE AND ARCHAEOLOGY**

Assessment period: September 1998

**Key:**

- Protected Ancient Monument, or area of designated wreck
- Listed Historic Building
- Monument formally proposed by Historic Scotland for scheduling, or wreck for designation
- Other known Ancient Monuments, or Undesignated wreck
- Designated Landscape
- Insufficient information; more work needed
- Probably archaeologically sterile

