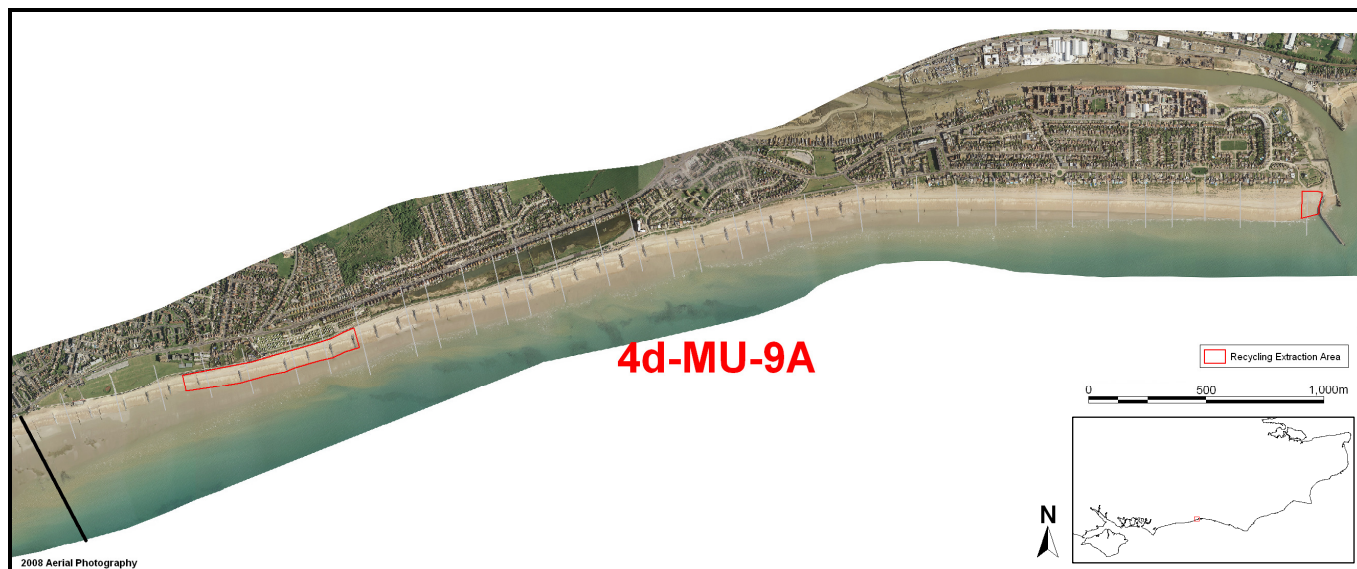


Policy Unit: 4d MU9A

Lancing to Shoreham Harbour Arm (West)

Topographic Beach Profiles 4d00645 – 4d00757



Summary

The Lancing to Shoreham Harbour Arm frontage is mainly backed by residential properties. The western two-thirds faces southeast and has large rock groyne structures spaced at 100m to retain beach material. The eastern third is south facing, with a wide, stable vegetated berm with no groyne structures. The eastern extent is designated a Local Nature Reserve (LNR) due to the vegetated shingle.

The stability of this section can be attributed to the large harbour arm that delineates the eastern extent of the Unit, preventing migration of shingle further eastward. Shoreham Port Authority bypass between 5,000m³ and 10,000m³ of the accumulated material twice annually to MU9B on the eastern side of the Harbour Arm. The Beach Management Plan area extends 1km westwards from the eastern extent.

Survey Regime

Survey type	Frequency	Profile spacing/Survey extent
<i>Topographic baseline</i>	5 years	32m to MLWN
<i>Topographic interim profile</i>	Spring and Autumn	100m to MLWN
<i>Topographic post-storm profile</i>	As Required	263m to MLWN
<i>Topographic Beach Management Plan profile</i>	Annual	100m to MLWN
<i>Bathymetry</i>	5 years	50m profiles to 1km offshore
<i>Ortho-photography</i>	3 years	MLWS
<i>Non-rectified aerial photography</i>	Annual	MLWS
<i>Lidar</i>	Rolling Programme	MLWN
<i>Habitat Mapping</i>	5 Years	As Required

Summary of beach operations

Date	Operation	Quantity (m ³)	Location/Notes
2010			
24/05/2010	Annual Bypassing Scheme	5,652	Extracted from 4d00646 to 4d00649
2009			
27/10/2009	Annual Bypassing Scheme	6,711	Extracted from 4d00646 to 4d00649
23/03/2009	Annual Bypassing Scheme	7,422	Extracted from 4d00646 to 4d00649
2008			
10/11/2008	Annual Bypassing Scheme	7,289	Extracted from 4d00646 to 4d00649
07/04/2008	Annual Bypassing Scheme	6,100	Extracted from 4d00646 to 4d00649
2007			
01/11/2007	Lancing Emergency Replenishment Scheme	9,800	Extracted from 4d00733 to 4d00747
01/10/2007	Annual Bypassing Scheme	5,889	Extracted from 4d00647 to 4d00649
01/03/2007	Annual Bypassing Scheme	6,433	Extracted from 4d00647 to 4d00649
2006			
01/10/2006	Annual Bypassing Scheme	5,833	Extracted from 4d00647 to 4d00649
01/03/2006	Annual Bypassing Scheme	4,511	Extracted from 4d00647 to 4d00649
2005			
01/10/2005	Annual Bypassing Scheme	4,631	Extracted from 4d00647 to 4d00649
01/03/2005	Annual Bypassing Scheme	5,622	Extracted from 4d00647 to 4d00649
2004			
01/10/2004	Annual Bypassing Scheme	5,533	Extracted from 4d00647 to 4d00649
01/03/2004	Annual Bypassing Scheme	5,722	Extracted from 4d00647 to 4d00649
2003			
01/10/2003	Annual Bypassing Scheme	5,722	Extracted from 4d00647 to 4d00649
01/03/2003	Annual Bypassing Scheme	5,667	Extracted from 4d00647 to 4d00649

Full details of data availability and extents can be found on the Channel Coast Observatory Website (www.channelcoast.org)