

Policy Unit: 5f SWA3

Sheps Hollow to Outfall Jetty

Topographic Beach Profiles 5f00743 to 5f00760



Summary

The soft Wealden cliffs found in the north of Swanage Bay gradually reduce in height within this policy unit. The sandy beach has various defence structures in place, including timber groynes and a long seawall. These defences protect the road which runs parallel with the shoreline as well as numerous houses and properties on the cliff top. Falls and slips, however, are a regular occurrence along this stretch of coastline due to high groundwater levels.

A replenishment programme was introduced in the winter of 2005/2006, using 90,000m³ of the 1.1million m³ of sediment recently dredged from Poole Harbour channel and approaches. This provided a wider beach to in front of the seawall and also served to add to the amenity value of Swanage.

Survey Regime

Survey type	Frequency	Profile spacing/survey extent
<i>Topographic interim profiles</i>	Spring and Autumn	200m to MLWS
<i>Topographic baseline</i>	Annual	50 - 70m to MLWS
<i>Bathymetric baseline</i>	2 years	50m to 300m offshore
<i>Ortho-photography</i>	5 years	MLW
<i>Non-rectified aerial photography</i>	Annual	MLW
<i>Lidar</i>	3 years	MLW
<i>Habitat mapping</i>	5 years	Extent of ortho-photography

Summary of beach operations

Date	Operation	Quantity (m ³)	Location/Notes
2005 - 2006			
Nov 2005 - May 2006	Beach replenishment	90,00 m ³	Entire frontage
Nov 2005 - May 2006	18 timber groynes replaced		Entire frontage
1993			
	Outfall Jetty Construction		Southern boundary of SWA3
1962			
	14 timber groynes constructed		
	Seawall reconstruction		Concrete sheet piled toe detail added, some sections of seawall rebuilt
1920's			
1920-30	Seawall construction		600m of seawall built along toe of cliffs
1925	Timber groyne construction		

Full details of beach operations can be obtained from Purbeck District Council