

SMP Policy Unit: 4d-MU10  
Survey Unit: 4dSU13

Aldrington to Brighton Marina (Western Arm)

Topographic Beach Profiles 4d00443 – 4d00577



**Summary**

The Aldrington to Brighton Marina frontage is a south-southwest facing stretch backed by the city centre of Brighton and Hove. The back of the beach is delineated by a seawall and promenade along the majority of the frontage, with shingle retained by concrete wall groynes spaced between 75 and 150m apart.

The presence of Brighton Marina at the eastern extent of the Unit has a considerable impact on the stability of the eastward drifting shingle bank, with the large accumulation of material in the eastern quarter giving rise to a very significant 50m width berm. In May 2010 and November 2011, Shoreham Port Authority extracted shingle in the vicinity of the Black Rock storm water outfall at the eastern extent to make sure it remains unobstructed.

## Survey Regime

Survey type	Frequency	Survey extent
<i>Topographic baseline</i>	5 years	MLWN
<i>Topographic interim profile</i>	Spring and Autumn	MLWN
<i>Topographic post-storm</i>	As Required	MLWN
<i>Bathymetry</i>	5 years	1km offshore
<i>Ortho-photography</i>	3 years	MLWS
<i>Lidar</i>	Rolling Program	MLWN
<i>Habitat Mapping</i>	5 Years	As Required

## Summary of beach operations

Date	Operation	Quantity (m <sup>3</sup> )	Location/Notes
<b>2013</b>			
21/11/2013	Black Rock Storm Water Outfall Clearance Scheme	8,382	Extracted: 4d00445 - 4d00463 Deposited: Profiles 4d00582 & 4d00644, and BETWEEN Profiles 4d00630-631, and 4d00641-643.
<b>2010</b>			
24/05/2010	Black Rock Storm Water Outfall Clearance Scheme	7,512	Extracted: 4d00446 - 4d00452 Deposited: Profiles 4d00642 & 4d00643

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