ABP | SOUTHAMPTON

Port of Southampton Passage Planning Depths

Date of Issue 29th May 2025

Latest Passage Planning Depth (PPD) shown Red or Green

Advertised Design Depths (ADD) shown in Blue, also see the current Port of Southampton Tide Tables

Dredge Area	PPD	ADD	Current Survey	Comments
Western Docks				
101 Berth Step	3.0	4.1	2025_H001	Not maintained
101 Berth	10.4	10.5	2025_H001	iso 10.3m
102/3 Berths	10.4	10.5	2025_H001	iso 10.3m
104 Berth	10.4	10.5	2025_H001	iso 10.1m
105 Berth	11.6	11.7	2025_H001	
106 Berth	11.6	11.7	2025_H001	
107 Berth	11.3	11.7	2025_H001	iso 11.2m
108/109 Berth	10.9/10.7	11.7	2025_H001	iso 10.3m ivo Bol 129
109 Berth Step	2.8	5.5	2025_H001	shoaling towards quay
King George V Dock	9.8	9.8	2025_H001	
110 Berth	7.7	10.2	2025_H001	shoaling in NW corner 6.7m
SCT 5	16.5	16.5	2025_H001	
203 Berth	8.3	9.1	2025_H001	shoaling along quay esatern end to 7.8m
SCT 4	13.4	13.6	2025_H001	
SCT 3	14.0	14.0	2025_H001	
SCT 2	15.1	15.1	2025_H001	
SCT 1	15.1	15.1	2025_H001	
SCT 1 Tug Shelf	5.5	6.0	2025_H001	Shoaling in West Corner 5.4m

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Eastern Docks				
20 Berth	6.4	7.5	2025_H001	Less than 5m inside gut off bollards 1 - 2
21 Berth	4.3	7.5	2025_H001	Shoaling to 3.3m on fuel berth
22 Berth	6.8	6.8	2025_H001	
23 Berth	6.8	6.8	2025_H001	iso 6.7m quay wall damage south of berth/ex DD inset
24 Berth	7.1	7.1	2025_H001	
25 Berth	7.1	7.1	2025_H001	
26 Berth	7.1	7.1	2025_H001	
27 Berth	7.1	7.1	2025_H001	
29 Berth	5.5	5.8	2025_H001	shoaling beyond old linkspan bridge pad & to E
31/32 Berth	9.1	9.1	2025_H001	iso 8.9m nr bol 11
33 Berth	9.1	9.1	2025_H001	
34 Berth	9.9	9.9	2025_H001	
35 Berth	9.9	9.9	2025_H001	
36 Berth	9.9	9.9	2025_H001	iso 9.8m bol 21-22
37 Berth	7.8	7.8	2025_H001	iso 7.4m
38 Berth	10.5	10.5	2025_H001	iso 10.2 bollard 2
39 Berth	10.5	10.5	2025_H001	iso 10.3 and 10.4 nr quay
40 Berth	9.3	9.3	2025_H001	Shoaling at N end towards 41 berth
41 Berth	8.7	8.7	2025_H001	
43 Berth	11.7	11.7	2025_H001	shoaling in pocket south of bollard 1
44 Berth	11.7	11.7	2025_H001	iso 11.6
45 Berth	10.2	10.2	2025_H001	shoaling to 9m at north end
46 Berth	10.5	10.5	2025_H001	shoaling to 9.6m at north end, bol 26
47 Berth	11.7	11.7	2025_H001	iso 11.6m, shoaling on pocket edges
48 Berth	7.0	7.1	2025_H001	approaches iso 6.8m
49 Berth	7.1	7.1	2025_H001	approaches iso 6.8m
50 Berth	1.9	4.2	2025_H001	shoaling to 1.2m from Bollard 2 northwards
Ocean Dock	10.5	10.5	2025_H001	iso 10.4m off 44 pocket & shoaling to 7.3m in N corner
App Ocean Dock	10.5	10.5	2025_H001	iso 10.2m NW of entrance
Lower Itchen Above Empress	9.0	9.1	2025_H001	shoaling to east of channel, to 8.9m
Empress Dock	7.8	7.8	2025_H001	
Lower Itchen Below Empress	9.1	9.1	2025_H001	Eastern approches isolated shoals 8.9m
Itchen Bridge Approach	3.0	3.0	2025_H001	Least depth along track to Itchen Bridge

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Other Areas				
Marchwood Wharf	3.2	4.0	2025_H001	
Cracknore Jetty (ex. Husbands	3.2	4.2	2021_H053	
SGL Mulberry Jetty (No.1-2)	3.6	4.9	2025_H019	
SGL Falkland Jetty (No.3)	10	11	2025_H019	
SGL Falkland Jetty (No.4)	8.1	8.5	2025_H019	Shoaling across berth and approach iso 7.9m
SGL Gun Wharf Jetty (No.5)	4.4	4.9	2025_H019	
SGL Gun Wharf Jetty (No.6)	2.7	3.0	2025_H019	
Princes Wharf	2.0	2.0	2024_H005	iso 1.6m outside edge of berth pocket.
Saxon Wharf	2.5	2.5	2022_H022	
Dibles Wharf	1.9	2.2	2024_H030	
Dibles Gut	1.3	2.0	2022_H022	
Crown & Leamouth Wharves	2.7	3.0	2024_H030	shoaling south end towards Britannia Wharf.
Britannia Wharf	2.0	2.2	2024_H030	shoaling alongside quay 1m
Phoenix Wharf	2.4	2.4	2024_H030	shoaling north and south quay.
Burnley Wharf	1.6	2.0	2024_H030	shoaling 1.6m
Centenary Wharf (North)	6.3	6.3	2019_H071	
Solent Refit Approaches	6.7	6.7	2019_H072	
BP Hamble	13.6	13.6	2025_H019	shoaling in northwestern edge of berth
BP Hamble Approaches	11.2	11.2	2025_H019	shoaling in northwest of approach
FMT 1	10.2	10.2	2025_H001	
FMT 1 Approaches	10.2	10.2	2025_H019	
FMT 2	11.7	12.6	2025_H019	
FMT 2 Approaches	10.2	10.2	2025_H019	
FMT 3	12.6	12.6	2025_H001	
FMT 3 Approaches	12.6	12.6	2025_H019	
FMT 4	14.9	14.9	2025_H019	
FMT 4 Approaches	13.2	13.2	2025_H019	
FMT 5	14.9	14.9	2025_H001	
FMT 5 Approaches	13.2	13.2	2025_H019	
FMT 6	5.4	5.6	2025_H019	
FMT 7	5.4	5.6	2025_H019	
FMT 8	5.6	5.6	2025_H019	
FMT 9	6.5	6.6	2025_H019	shoaling to 5.9m in north and iso 6.4m in south
FMT Coastal Approach (6-9)	5.3	5.6	2025_H019	**shoaling on edges of approaches**
Fawley Power Station	1.5	2.4	2021_H026	shoaling within basin to 0.8m and -0.6m north quay
Solent Refit Approaches	1.4	1.4		

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Channel				
Eling Channel	0.8	-0.8	2021_H051	
Soton Container Terminal	13.0	13.0	2025_H001	12.9m nr SCT5, shoaling to 12.6m nr tug shelf
Bury Swinging Ground	9.9	10	2025_H001	Shoaling at edges and iso 9.8m
Bury Reach	13.0	13.0	2025_H001	shoaling to 12.4m on channel edges ivo Bury & Millbrook
Upper Swinging Ground	13.2	13.2	2025_H001	
Western Docks	13.2	13.2	2025_H001	shoaling to 12.5m on channel edges nr berth pockets
Marchwood Channel	2.0	3.0	2025_H001	
Middle Swinging Ground	13.2	13.2	2025_H001	shoaling to 13m ivo Pierhead & Dibden Bay buoys
Middle Swinging Ground Ext	13.2	13.2	2025_H001	
Junction Channel	13.2	13.2	2025_H001	shoaling on channel edges
Lower Swinging Ground MC	13.2	13.2	2025_H001	iso 13m
Lower Swinging Ground Itchen	9.9	10.2	2025_H001	shoaling eastern edges
NW Netley to Dock Head	13.2	13.2	2025_H001	iso 12.9m SE of test 50°52'27.37"N, 1°23'09.27"W (OSGB36)
Greenland to Hound	13.2	13.2	2025_H001	shoaling to 12.8m on channel edges
Natural Deep	13.2	13.2	2025_H001	Pipeline not maintained 12.4m, iso 13m south of pipeline
Hook to Fawley Reach	13.6	13.6	2025_H001	iso 12.8m ivo Fawley Deep, iso 12.3m shoals S of Esso 5
Calshot Turn Outer	12.2	12.6	2025_H001	shoaling on E side at North Chn entrance
North Thorn to Hook	13.6	13.6	2025_H001	shoaling see chart
North Channel	4.2	4.2	2024_H022	Shoaling on channel edges. Iso 3.8m
South Bramble	13.6	13.6	2024_H028	iso 13.4m centre channel and 12.8m channel edges
Nab Channel	14.4	14.4	2024_H014	iso 14.1m Western side of channel
Prince Consort shoals			2024_H014	see chart - 11.4m 115m NNW of PC buoy 8.7m shoal 64m W of PC buoy

Water Density Measurements

Measured from surface samples at the locations and dates detailed below

2021 Monthly Averages	SCT	USG	MSG	JC	DH	SW	Calshot	Central Solent
January	1021.549	1022.51	1020.913	1021.452	1021.405	1023.747	1024.93	1025.156
February	1020.826	1022.288	1021.553	1021.452	1021.405	1022.296	1024.93	1025.671
March	1021.798	1022.763	1022.177	1022.691	1023.093	1023.386	1022.86	1025.671
April	1023.139	1023.066	1022.177	1023.815	1023.585	1025.227	1025.769	1025.671
May	1022.482	1022.925	1021.718	1022.442	1023.465	1024.291	1024.724	1025.671
June	1021.623	1022.375	1021.247	1022.216	1021.746	1022.709	1023.05	1024.21
July	1019.61	1020.924	1019.679	1021.869	1021.854	1022.276	1023.538	1023.722
August	1021.801	1022.407	1019.679	1022.208	1021.722	1022.464	1023.538	1023.827
September	1022.763	1022.69	1021.497	1022.872	1022.534	1023.089	1023.538	1023.827
October	1023.432	1022.199	1023.483	1022.087	1022.534	1023.71	1023.538	1023.827

Densities given in this report are averages of those measured over Flood, HW Stand and Ebb tidal states

Full information is available from the Port Hydrographic Office