

Port of Southampton Passage Planning Depths

Date of Issue 18th March 2026

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_H019	Not maintained
101 Berth	10.4	10.5	2025_H030	iso 10.3m
102/3 Berths	10.4	10.5	2025_H030	iso 10.3m
104 Berth	10.4	10.5	2025_H030	
105 Berth	11.7	11.7	2025_H030	
106 Berth	11.7	11.7	2025_H030	
107 Berth	11.3	11.7	2025_H030	iso 11.2m
108/109 Berth	10.2	11.7	2025_H030	
109 Berth Step	2.8	5.5	2025_H030	shoaling towards quay
King George V Dock	9.6	9.8	2025_H030	
110 Berth	7.5	10.2	2025_H030	shoaling in NW corner 6.4m
SCT 5	16.2	16.5	2025_H030	
203 Berth	8.3	9.1	2025_H030	shoaling along quay eastern end to 7.8m
SCT 4	13.5	13.6	2025_H030	
SCT 3	14.0	14.0	2025_H030	
SCT 2	14.6	15.1	2025_H030	
SCT 1	14.8	15.1	2025_H030	
SCT 1 Tug Shelf	5.5	6.0	2025_H030	Shoaling in West Corner 5.4m

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Eastern Docks				
20 Berth	6.1	7.5	2025_H030	Less than 5m inside gut off bollards 1 - 2
21 Berth	6.6	7.5	2025_H030	Shoaling to 3.3m on fuel berth
22 Berth	6.8	6.8	2025_H030	
23 Berth	6.8	6.8	2025_H030	iso 6.7m quay wall damage south of berth/ex DD inset
24 Berth	7.1	7.1	2025_H030	
25 Berth	7.1	7.1	2025_H030	
26 Berth	7.1	7.1	2025_H030	
27 Berth	7.1	7.1	2025_H030	
29 Berth	5.2	5.8	2025_H030	shoaling beyond old linkspan bridge pad & to E
31/32 Berth	9.1	9.1	2026_H005	iso 8.9m nr bol 11
33 Berth	9.1	9.1	2026_H005	
34 Berth	9.9	9.9	2026_H005	
35 Berth	9.9	9.9	2026_H005	
36 Berth	9.5	9.9	2026_H005	9.5m south of Bollard 28
37 Berth	7.8	7.8	2025_H030	iso 7.4m
38 Berth	10.5	10.5	2026_H005	
39 Berth	10.5	10.5	2026_H005	
40 Berth	9.3	9.3	2026_H005	iso 8.8m bollard 26
41 Berth	8.6	8.7	2026_H005	
43 Berth	11.4	11.7	2026_H005	
44 Berth	11.7	11.7	2026_H005	
45 Berth	10.2	10.2	2026_H005	shoaling at north end
46 Berth	10.5	10.5	2026_H005	shoaling to north end iso 10.4
47 Berth	11.7	11.7	2026_H005	
48 Berth	6.7	7.1	2025_H030	approaches iso 6.8m
49 Berth	7.1	7.1	2025_H019	approaches iso 6.8m
50 Berth	1.9	4.2	2025_H019	shoaling to 1.2m from Bollard 2 northwards
Ocean Dock	10.5	10.5	2026_H005	iso 10.4m off 44 pocket & shoaling to 7.3m in N corner
App Ocean Dock	10.5	10.5	2026_H005	iso 10.2m NW of entrance
Lower Itchen Above Empress	9.0	9.1	2026_H005	shoaling to east of channel, to 8.9m
Empress Dock	7.8	7.8	2026_H005	
Lower Itchen Below Empress	9.1	9.1	2026_H005	Eastern approaches isolated shoals 8.9m
Itchen Bridge Approach	3.0	3.0	2025_H001	Least depth along track to Itchen Bridge
Princes Wharf Approach	1.8	N/A	2022_H022	Shoals on channel edges

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Marchwood Wharf Approach	1.9		2026_H009	
Marchwood Wharf	3.1	4.0	2026_H009	
Cracknore Jetty (ex. Husbands)	3.2	4.2	2021_H053	
SGL Mulberry Jetty (No.1-2)	3.9	4.9	2026_H007	No1 - 3.9m No2 - 4m Approaches 3.7m
SGL Falkland Jetty (No.3)	11	11	2026_H007	
SGL Falkland Jetty (No.4)	8.5	8.5	2026_H007	shoaling south of bulwark 8.4m
SGL Gun Wharf Jetty (No.5)	4.4	4.9	2026_H007	
SGL Gun Wharf Jetty (No.6)	2.7	3.0	2026_H007	
Princes Wharf	1.6	2.0	2025_H023	1.6m shoal and obstruction
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	2025_H021	shoaling south end towards Britannia Wharf.
Britannia Wharf	2.0	2.2	2025_H021	shoaling alongside quay 0.9m
Phoenix Wharf	2.4	2.4	2025_H021	shoaling north and south quay.
Burnley Wharf	1.6	2.0	2025_H021	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	2026_H001	
BP Hamble Approaches	11.2	11.2	2026_H001	Iso 11.1m
FMT 1	10.2	10.2	2026_H008	
FMT 1 Approaches	10.2	10.2	2026_H008	
FMT 2	12.6	12.6	2026_H008	
FMT 2 Approaches	10.2	10.2	2026_H008	
FMT 3	12.6	12.6	2026_H008	
FMT 3 Approaches	12.6	12.6	2026_H008	
FMT 4	14.9	14.9	2026_H008	
FMT 4 Approaches	13.2	13.2	2026_H008	
FMT 5	14.9	14.9	2026_H008	
FMT 5 Approaches	13.2	13.2	2026_H008	
FMT 6	5.6	5.6	2026_H008	
FMT 7	5.6	5.6	2026_H008	
FMT 8	5.6	5.6	2026_H008	
FMT 9	6.6	6.6	2026_H008	
FMT Coastal Approach (6-9)	5.6	5.6	2026_H008	<u>shoaling to southwest beyond Berth 8</u>

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Channel	Dredge Area	PPD	ADD	Current Survey	Comments
	Eling Channel	0.8	-0.8	2021_H051	
	Soton Container Terminal	13.0	13.0	2025_H030	12.9m nr SCT5, shoaling to 12.6m nr tug shelf
	Bury Swinging Ground	9.5	10	2025_H030	Shoaling
	Bury Reach	13.0	13.0	2025_H030	shoaling on channel edges
	Upper Swinging Ground	13.2	13.2	2025_H030	
	Western Docks	13.2	13.2	2025_H030	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_H030	iso 12.8m remining from ploughing
	Middle Swinging Ground Ext	13.2	13.2	2025_H030	
	Junction Channel	13.2	13.2	2026_H005	shoaling on channel edges
	Lower Swinging Ground MC	13.2	13.2	2026_H005	iso 13m
	Lower Swinging Ground Itchen	9.9	10.2	2025_H030	shoaling eastern edges iso 9.8m
	NW Netley to Dock Head	13.2	13.2	2025_H030	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_H030	shoaling to 12.8m on channel edges
	Natural Deep	13.2	13.2	2025_H030	Pipeline not maintained 12.4m, iso 13m south of pipeline
	Hook to Fawley Reach	13.6	13.6	2025_H030	iso 12.8m ivo Fawley Deep, iso 12.3m shoals S of Esso 5
	Calshot Turn Outer	12.2	12.6	2025_H030	shoaling on E side at North Chn entrance
	North Thorn to Hook	13.6	13.6	2025_H030	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	2025_H019	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
	Fawley Power Station	1.4	2.4	2020_H020	shoaling within basin to 0.8m and -0.6m north quay
	Solent Refit Approaches	1.4	1.4		

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

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