

## Port of Southampton Passage Planning Depths

Date of Issue 3rd May 2022

Latest Passage Planning Depth (PPD) shown Red

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

Dredge Area	PPD	ADD	Current Survey	Comments
<b>Western Docks</b>				
101 Berth Step	3.0	4.1	2022_H010	Not maintained
101 Berth	10.5	10.5	2022_H010	iso 10.4m 3m off quay
102/3 Berths	10.5	10.5	2022_H010	iso 10.3m
104 Berth	10.5	10.5	2022_H010	
105 Berth	11.7	11.7	2022_H010	
106 Berth	11.7	11.7	2022_H010	iso 11.6m
107 Berth	11.7	11.7	2022_H010	iso 11.5m
108/109 Berth	11.4	11.7	2022_H010	iso 11.2m
109 Berth Step	3.9	5.5	2022_H010	shoaling towards quay
King George V Dock	9.8	9.8	2022_H010	iso 9.6m
110 Berth	8.0	10.2	2022_H010	not maintained, shoaling in NW corner
SCT 5	16.3	16.5	2022_H009	iso 13m on approach to SCT5
203 Berth	8.6	9.1	2022_H010	shoaling along quay esater end
SCT 4	13.6	13.6	2022_H010	iso 13.4m
SCT 3	14.0	14.0	2022_H010	
SCT 2	15.1	15.1	2022_H010	iso 14.9m
SCT 1	14.9	15.1	2022_H010	shoaling on approach to sct1 12.5m
SCT 1 Tug Shelf	6.0	6.0	2022_H010	Shoaling in West corner ivo Horse Head Bcn

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<b>Eastern Docks</b>				
20 Berth	7.1	7.5	2021_H070	Less than 5m inside gut off bollards 1 - 2
21 Berth	4.3	7.5	2021_H070	Shoaling to 3.3m on fuel berth
22 Berth	6.8	6.8	2021_H070	
23 Berth	6.8	6.8	2021_H070	quay wall damage south of berth/ex DD inset
24 Berth	6.5	7.1	2021_H079	
25 Berth	6.7	7.1	2021_H079	
26 Berth	6.6	7.1	2021_H079	
27 Berth	6.6	7.1	2021_H079	
29 Berth	4.9	5.8	2021_H079	shoaling in northern corner & east toe
31/32 Berth	9.1	9.1	2022_H001	shoaling in northwest corner to 7.2m, iso 8.9m
33 Berth	9.1	9.1	2022_H001	iso 8.9m
34 Berth	9.9	9.9	2022_H001	iso 9.7m
35 Berth	9.9	9.9	2022_H001	iso 9.7m
36 Berth	9.9	9.9	2022_H001	iso 9.8m
37 Berth	7.5	7.8	2021_H070	iso 6m
38 Berth	10.5	10.5	2022_H001	
39 Berth	10.5	10.5	2022_H001	
40 Berth	9.3	9.3	2022_H001	iso 9.1m
41 Berth	8.7	8.7	2022_H001	
43 Berth	11.7	11.7	2022_H001	iso 11.5m
44 Berth	11.7	11.7	2022_H001	iso 11.5m
45 Berth	10.2	10.2	2022_H001	shoaling to 9.8m north of Bollard 19
46 Berth	10.3	10.5	2022_H001	
47 Berth	11.7	11.7	2022_H001	
48 Berth	6.8	7.1	2022_H001	approaches 6.7m, up to 6.5m on W extent
49 Berth	6.9	7.1	2021_H070	approaches 6.7m, up to 6.5m on W extent
50 Berth	1.9	4.2	2022_H001	shoaling to 1.2m from Bollard 2 northwards
Ocean Dock	10.5	10.5	2021_H079	iso 10.3m
App Ocean Dock	10.5	10.5	2021_H079	Ocean Dock App south 10.4m; north 9.5m
Lower Itchen Above Empress	9.1	9.1	2021_H079	shoaling to east of channel
Empress Dock	7.4	7.8	2021_H079	shoaling in north to 7m
Lower Itchen Below Empress	9.1	9.1	2021_H079	Shoaling on east of channel
Itchen Bridge Approach	3.0	3.0	2019_H071	Least depth along track to Itchen Bridge

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<b>Other Areas</b>				
Marchwood Wharf	1.9	4.0	2021_H053	iso 2.8m - 2.0m on approach 1.7m if swinging
Cracknore Jetty (ex. Husbands	3.2	4.2	2021_H053	
SMC Mulberry Jetty (No.1-2)	4.3	4.9	2022_H011	
SMC Falkland Jetty (No.3-4)	7.9	8.0	2022_H011	
SMC Gun Wharf Jetty (No.5)	4.7	4.9	2022_H011	
SMC Gun Wharf Jetty (No.6)	3.0	3.0	2022_H011	
Princes Wharf	2.0	2.0	2021_H054	iso 1.7m outer eastern-outer berth pocket.
Saxon Wharf	2.5	2.5	2019_H072	
Dibles Wharf	1.9	2.2	2021_H054	
Dibles Gut	1.3	2.0	2021_H054	
Crown & Leamouth Wharves	2.8	3.0	2022_H014	
Britannia Wharf	1.6	2.2	2022_H007	shoaling alongside quay 1m
Phoenix Wharf	2.4	2.4	2022_H007	shoaling north and south quay.
Burnley Wharf	1.6	2.0	2022_H007	shoaling 1.6m
Centenary Wharf (North)	6.3	6.3	2019_H071	
Centenary Wharf (South)	6.7	6.7	2019_H072	
BP Hamble	13.6	13.6	2022_H010	shoaling in north of berth pocket.
BP Hamble Approaches	11.2	11.2	2022_H010	11m shoaling in North and South of approaches
FMT 1	10.2	10.2	2022_H013	
FMT 1 Approaches	10.2	10.2	2022_H013	
FMT 2	11.6	12.6	2022_H013	
FMT 2 Approaches	10.2	10.2	2022_H013	iso 10.1m
FMT 3	12.5	12.6	2022_H013	
FMT 3 Approaches	12.6	12.6	2022_H013	
FMT 4	14.9	14.9	2022_H013	iso 14.8 between FMT4/5
FMT 4 Approaches	13.2	13.2	2022_H013	
FMT 5	14.9	14.9	2022_H013	iso 14.8 between FMT4/5
FMT 5 Approaches	13.2	13.2	2022_H013	shoaling to 12.2m SE of berth
FMT 6	5.6	5.6	2022_H013	
FMT 7	5.5	5.6	2022_H013	
FMT 8	5.6	5.6	2022_H013	
FMT 9	6.6	6.6	2022_H013	iso 6.5m on approach
FMT Coastal Approach (6-9)	5.6	5.6	2022_H013	Isolated 5.3m shoal ivo FMT8
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	Dredge Area	PPD	ADD	Current Survey	Comments
	Eling Channel	0.8	-0.8	2021_H051	
	Soton Container Terminal	13.0	13.0	2022_H010	shoaling to 12m ivo Eling
	Bury Swinging Ground (North)	10	10	2022_H010	Shoaling within 55m SE of the Eling Buoy
	Bury Reach	13.0	13.0	2022_H010	12.5m north of Eling cardinal
	Upper Swinging Ground	13.2	13.2	2022_H010	shoaling on channel edges, 13m ivo SG6
	Western Docks	13.2	13.2	2022_H010	shoaling on channel edges
	Marchwood Channel	2.0	3.0	2021_H067	shoal 1.7m area to north of basin, note if swinging
	Middle Swinging Ground	13.2	13.2	2022_H010	Iso 12.9m ivo Dibden Buoy
	Middle Swinging Ground Ext	10	10.2	2022_H010	
	Junction Channel	13.2	13.2	2022_H010	shoaling on channel edges 13m
	Lower Swinging Ground MC	13.2	13.2	2022_H010	shoaling on channel edges 12.9m
	Lower Swinging Ground Itchen	10.2	10.2	2022_H010	shoaling on channel edges 9.9m
	NW Netley to Dock Head	13.2	13.2	2021_H079	shoaling on channel edges, iso 12.8m
	Greenland to Hound	13.2	13.3	2021_H079	shoaling on channel edges, iso 12.9m
	Natural Deep	13.2	13.4	2021_H079	Pipeline not maintained 12.4m
	Hook to Fawley Reach	13.6	13.6	2021_H079	iso 13.3m S of Hook on west side of chn
	Calshot Turn Outer	12.2	12.6	2021_H051	shoaling on E side at North Chn entrance
	North Thorn to Hook	13.4	13.6	2021_H051	iso 13.4m calshot turn shoals
	North Channel	4.0	4.2	2021_H052	shoaling on channel edges
	South Bramble	13.3	13.6	2021_H051	iso 13.3m centre channel
	Nab Channel	14.4	14.4	2021_H055	iso 14.1m Western side of channel
	Prince Consort shoals			2022_H002	see chart 10.3m 100m-150m north 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