

The following Notice to Mariners is published for general information

Australia – Victoria

No. 523 (T) - 2024

PORT OF MELBOURNE CHANGE TO DEPTHS

Date: 28 November 2024

Refers: NtM 416 (T) - 24
NtM 464 (T) - 24 and is hereby cancelled

Harbour Master's Directions – Melbourne Edition 13.1, September 2023

Details: Mariners and port users are advised of changes to depths within port of Melbourne waters effective immediately.

Following scheduled surveys, changes to maintained depths have been identified in the following berth pockets and channel reaches:

- Yarraville 5
- Appleton Dock B-E
- South Wharf 26
- South Channel-West

Here attached updated tables of current maintained depths for all berth pockets, channel reaches and swing basins including least depths for anchorages.

Should a further change to maintained or least depth be identified, the tables will be updated and repromulgated by Notice to Mariners.

The Dynamic Under Keel Clearance (DUKC) system has been updated to reflect the changes to depths.

For further information, please email the Navigation Services department at NavigationServices@ports.vic.gov.au.

Charts & Publications affected: Harbour Master's Directions – Melbourne Edition 13.1, September 2023
AUS 143, AUS 144, AUS 155, AUS 157
ENC AU5RIP01, ENC AU5MEL01

Further notice: Further notice will be issued.



David Tilsley
Deputy Harbour Master
Navigation Services

Date Updated: 28/11/2024

Table 3(f) Minimum permissible UKC for vessels with draughts less than 11.6 m

Channel reach	General description	Maintained depth (m)	Minimum UKC (m)	Maximum draught at zero tide (m) ¹
The Great Ship Channel (The Entrance)	From the (inner) pilot boarding ground to due south of Shortland Bluff	17.0	N/A	No restriction ²
Entrance Fairway	From due south of Shortland Bluff to Popes Eye	16.5	N/A	No restriction ²
Outer Western Channel	The westernmost secondary channel adjacent to the Great Ship Channel	10.3	2.4	7.9
Western Ship Channel	The secondary channel to the immediate west of the Great Ship Channel	11.4	2.4	9.0
Eastern Ship Channel	The secondary channel to the immediate east of the Great Ship Channel	11.9	2.4	9.5
Outer Eastern Channel	The easternmost secondary channel adjacent to the Great Ship Channel	10.1	2.4	7.7
South Channel-West	From Popes Eye to the South Channel Cut	14.9	1.5	No restriction ²
South Channel-East	The South Channel Cut	15.3	1.5	No restriction ²
Hovell Pile	The waters about Hovell Pile	15.8	1.5	No restriction ²
Hovell Pile Secondary Channel	A 400 m wide channel located north east of the Hovell Pile and due west of the defined channel, with its south western edge marked by Beacon 22 (Fl(3)R.10s 8M).	13.1 (least depth)	1.5	11.6 ⁶
Port Phillip Bay Shipping Fairway	From South Channel Beacons 24 and 25 to the Transit Only Zone entrance beacons, T1 and T2	15.5	1.5	No restriction ²
TOZ - south	From Transit Only Zone entrance beacons, T1 and T2, to Port Melbourne Channel entrance beacons, E1 and E2	15.5	1.5	No restriction ²
Port Melbourne Channel-South	From Port Melbourne Channel Entrance Beacons E1 and E2 to Williamstown Channel-Port Melbourne Channel junction	15.5	1.5	No restriction ²
Eastern By-Pass Channel	The one-way secondary approach channel to the east of, and parallel to, Port Melbourne Channel-South extending south from Beacon 71 to Beacon 5	8.5	1.5	7.0
Western By-Pass Channel	The two-way secondary approach channel to the west of, and parallel to, Port Melbourne Channel-South extending north from Beacon 6 towards Breakwater Pier	8.8	1.5	7.3

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Port Melbourne Channel-North	From north of Williamstown Channel-Port Melbourne Channel junction to Station Pier	10.9	0.6	10.3
Williamstown Channel	From Williamstown Channel-Port Melbourne Channel junction to Webb Dock Entrance (Beacons 23 and 24)	15.5	1.2	No restriction ²
Yarra River Channel-South	From Webb Dock Entrance (Beacons 23 and 24) to Beacons 33 and 34	15.5	1.2	No restriction ²
Yarra River Channel-Centre	From Beacons 33 and 34 to the entrance of Maribyrnong River	15.0	1.2	No restriction ²
Yarra River Channel-North	From the entrance of Maribyrnong River to the entrance of Swanson Dock	14.6	0.6	No restriction ²
Between Swanson Dock and Appleton Dock	Between Swanson Dock and Appleton Dock	14.6	0.6	No restriction ²
Between Appleton Dock and Bolte Bridge	Between Appleton Dock and Bolte Bridge	10.1	0.6	9.5
All swing basins	See Table 3(k)	See Table 3(k)	0.6	See Table 3(k)
All berths -manoeuvring alongside	See Table 3(j)	See Table 3(j)	0.6 ^{3,4}	See Table 3(j)
Hobson's Bay, Anchorage, Shortland Bluff Anchorage, Quarantine Anchorage	See Table 3(p)		0.6	
Inner Anchorage	See Table 3(n)	See Table 3(n) ⁵	1.5	See Table 3(n)
Outer Anchorage	See Table 3(o)	See Table 3(o) ⁵	1.5	See Table 3(o)

¹ To determine the actual maximum permissible draught, tide height above or below the Chart Datum will need to be incorporated, and the values in this column are given for example purposes only. Note that if there is a negative tide height the maximum permissible draught will need to be reduced accordingly.

² There is no restriction on a vessel which has a draught of less than 11.6 m in these channels except when the tide falls below the Chart Datum.

³ At Holden Dock a vessel must maintain a minimum UKC of 1.0 m at all times, whether manoeuvring off the berth or moored alongside.

⁴ At Webb Dock 1 East the minimum UKC is 0.5 m for vessels operated by Toll Shipping.

⁵ The depth quoted in this table is 'least depth', not 'maintained depth'

⁶ Deep draught vessels are not to use this channel, even with tidal assistance.

Table 3(j) Berth information, berthing and unberthing

Berth		Maintained depth (m)	Ship's limits at berth (m)		Wharf height (m) above Chart Datum	General remarks
Name	Length (m)	Berth	Max. draught	Max. length		
Swanson Dock East	884	14.6	14.0	Less than 337 m ¹	2.7	<p>Dedicated container berths LOA >250 m must berth head out</p> <p>Maximum displacements: Swanson Dock East Berth 1: 98,000 t (refer to 3.16.14) Swanson Dock East Berth 2 and 3: 140,000 t (refer to 3.16.14) Swanson Dock West Berths 1 to 3: 98,000 t (refer to 3.16.14) Maximum beam: 45.6 m¹</p> <p>For arrivals with LOA ≥ 290 m, the southernmost 50 m at West Swanson should be unoccupied (refer to 3.16.8)</p> <p>At East Swanson vessel with a draught <12.0 m can berth and unberth no more than 880 m chainage while vessel with draught ≥ 12.0 m can berth and unberth no more than 865 m chainage</p> <p>At West Swanson vessel with a draught <12.0m can berth and unberth no more than 925 m chainage while vessel with draught ≥ 12.0 m can berth and unberth no more than 915 m chainage</p> <p>¹ Contact Ports Victoria for LOA >310 m, OR if beam >45.6 m and refer to 3.16.17</p>
Swanson Dock West	944	14.6	14.0			
Appleton Dock B	192	10.7 ¹²	10.1	250 ²	3.7	<p>General cargo and Ro/Ro berths</p> <p>Maximum displacement: 50,000 t</p> <p>² Appleton Dock B - E can accommodate vessels of LOA ≤270 m with prior arrangement</p> <p>¹²Areas of shoaling may exist with depths less than the maintained depth of the berth pocket up to 2 metres off the berth face from the fender line. Detailed berth</p>
Appleton Dock C	192					
Appleton Dock D	200					

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						<i>pocket survey plans are available for the Master's review and acceptance prior to berthing, contact Port of Melbourne Operations for most recent survey plan.</i>
Appleton Dock E	137					General cargo berth
Appleton Dock F	246	11.6 ¹²	11.0	230		Common user berth Head in berthing if using shiploader Maximum displacement: 75,000 t Vessel may warp beyond chainage mark 966 m to 983 m provided vessel's maximum forward draft remains less than or equal to 10 m <i>¹²Areas of shoaling may exist with depths less than the maintained depth of the berth pocket up to 2 metres off the berth face from the fender line. Detailed berth pocket survey plans are available for the Master's review and acceptance prior to berthing, contact Port of Melbourne Operations for most recent survey plan.</i>
Victoria Dock	315	9.4	8.8	250	4.0	General cargo berth; sub-leased Maximum displacement: 65,000 t
South Wharf 26	266	11.0 ¹²	10.4	215	3.5	Bulk cement berth Maximum displacement: 58,000 t <i>¹²Areas of shoaling may exist with depths less than the maintained depth of the berth pocket up to 2 metres off the berth face from the fender line. Detailed berth pocket survey plans are available for the Master's review and acceptance prior to berthing, contact Port of Melbourne Operations for most recent survey plan.</i>
South Wharf 27	211	10.7 ¹²	10.1	185	3.5	Bulk cement and common user berth Controlled cargo operations over the wharf apron due to low load limits <i>¹²Areas of shoaling may exist with depths less than the maintained depth of the berth pocket up to 2 metres off the berth face from the fender line. Detailed berth pocket survey plans are available for the Master's review and acceptance prior to berthing, contact Port of Melbourne Operations for most recent survey plan.</i>
South Wharf 29	311	9.0	8.4			Lay-up and common user berth (wharf apron only) Cargo only direct to road transport with PoMO permission
South Wharf 30 & 31	Tug berths. Not used for shipping.					

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South Wharf 33	210	11.1	10.5	185	2.7	Common user berth - bulk cement terminals.
Maribyrnong No. 1	-	10.0	9.4	180	2.9	Bulk liquid terminal Head out only Vessels with beam >25 m require permit Maximum displacement: 40,000 t
Yarraville 5	148	9.5 ¹²	8.9	180 ⁴	3.5	Bulk sugar/gypsum Beam >28.6 m: vessel to move clear of Maribyrnong River channel for all movements to/from Maribyrnong No. 1 berth (vessel must shift as directed by Melbourne VTS) ⁴ Maximum 16 m overlap allowed at each end ¹² Areas of shoaling may exist with depths less than the maintained depth of the berth pocket up to 2 metres off the berth face from the fender line. Detailed berth pocket survey plans are available for the Master's review and acceptance prior to berthing, contact Port of Melbourne Operations for most recent survey plan.
Yarraville 6	235	9.2	8.6	160	3.4	Not in use - contact Port of Melbourne Operations
Holden Dock	-	13.1	12.1 ⁵	200	3.6	Oil terminal. Head out only. LOA 185-200 m Ship/Shore manifolds must be aligned Minimum LOA 100 m Vessel with a beam >32.5 m requires a permit to berth LOA >130 m not permitted to swing off the berth, must swing at Yarraville or Swanson swing basins Maximum displacement: 64,000 t ⁵ Maximum draught of 12.1 m must not be exceeded, regardless of tide
Gellibrand Pier	-	15.5	14.7	287 ⁶	4.9	Oil terminal Head out only Beam no greater than 50.1 m Maximum distance manifold-stern 145 m Maximum displacement: 162,000 t

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						⁶ Minimum length 170 m
Breakwater Pier	120	6.5	6.0	75	3.9	Berthing only allowed between chainage 30-120 m Maximum displacement: 5,287 t
Webb Dock 1 East	210	8.2	7.6	210	3.0	Coastal Ro/Ro berths
Webb Dock 2 East	150	7.0	6.4	210		
Webb Dock 3 East	Not in use					
Webb Dock 4 East	731	14.6	14.0	347 ^{7,8}	3.05	Container terminal berths Preferred, head out berthing only Vessels must not berth to the north of Ch 0m Maximum displacement: 140,000 t (refer to 3.16.14) ⁷ Contact Ports Victoria for LOA>310m to 337m and refer to 3.16.17(c) ⁸ Contact Ports Victoria for LOA>337m
Webb Dock 5 East		14.6	14.0			
Webb Dock 1 West	890	12.4	11.8	265	3.4	Ro/Ro car terminal berths Maximum displacement: 60,000 t
Webb Dock 2 West						
Webb Dock 3 West						
Station Pier Inner East	220	10.0	9.4	195	3.4	Not in use
Station Pier Outer East	223	10.9	10.3	240 ⁹	3.4	Cruise ship terminal Berthing also subject to passenger capacity and security requirements ⁹ Vessels with LOA >240 m may be accommodated on request
Station Pier Inner West	95	8.8	8.2	105 ¹⁰	3.4	Cruise ship terminal Berthing also subject to passenger capacity and security requirements ¹⁰ Vessels with LOA >105 m may be accommodated on request
Station Pier Outer West	400	10.9	10.3	345 ¹¹	3.4	Cruise ship terminal

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						Berthing also subject to passenger capacity and security requirements ¹¹ <i>Vessels with LOA >345 m may be accommodated on request</i>
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Table 3(k) Swinging basin dimensions

Swinging basin dimensions			
Swinging basin	Diameter (m)	Maintained depth (m)	Max. draught at zero tide (m)
Appleton	339	14.5	13.9
Swanson	342	14.6	14.0
Yarraville	274	11.0	10.4
Station Pier	450 ¹	10.9	10.3
Gellibrand	371	15.3	14.7
Webb	450 (NW-SE axis) 420 (NE-SW axis)	14.6	14.0
Channel Junction (Port Melbourne and Williamstown Channels)	420	10.9	10.3

¹ When Station Pier Outer West berth is occupied this diameter is reduced

Table 3(n) Inner Anchorage berth locations

Anchorage name	Latitude	Longitude	Least depth (m)	Max. draught (m)	Max. LOA (m)
A1	37° 53.36' S	144° 54.56' E	9.8	8.3	240
A2	37° 54.25' S	144° 54.50' E	11.0	9.0	
A3	37° 55.13' S	144° 54.64' E	11.8		

Table 3(o) Outer Anchorage berth locations

Anchorage name	Latitude	Longitude	Least depth (m)	Max. draught (m)
S1	37° 58.209' S	144° 54.298' E	15.3	13.8
S2	37°57.556' S	144° 53.248' E	14.6	13.1
S3	37° 56.902' S	144° 52.198' E	15.2	13.7

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Anchorage name	Latitude	Longitude	Least depth (m)	Max. draught (m)
S4	37° 56.235' S	144° 51.166' E	12.4	10.9
S5	37° 57.166' S	144° 50.318' E	12.6	11.1
S6	37° 57.795' S	144° 51.386' E	15.6	14.1
S7	37° 58.424' S	144° 52.454' E	16.2	14.7
S8	37° 58.812' S	144° 50.882' E	15.5	14.0
S9	37° 58.096' S	144° 49.666' E	13.6	12.1
S10	37° 59.026' S	144° 49.014' E	14.7	13.2
S11	37° 59.742' S	144° 50.230' E	16.3	14.7 ¹
S12	38° 00.672' S	144° 49.578' E	16.4	14.7 ¹
S13	37° 59.955' S	144° 48.362' E	14.7	13.2
G1	38° 01.601' S	144° 48.926' E	15.3	13.8
G2	38° 01.815' S	144° 47.057' E	15.2	13.7
G3	38° 02.531' S	144° 48.273' E	17.2	14.7 ¹
G4	38° 02.744' S	144° 46.404' E	15.3	13.8
¹ Max. draught governed by max. draught that may be permitted to operate in port waters subject to HMD 3.9				

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