



**GENERAL NOTES:**

Survey undertaken between 15/10/21 and 08/12/2021

Survey Vessel: Black Jack

- Length: 16m
- Beam: 6m
- Draft: 1.1m
- Survey Installation: Moonpool

Survey Equipment:

- Kongsberg EM2040P multibeam sonar (400 kHz)
- POS MV NavMaster Inertial Navigation System with RTK corrections
- AME SV Xchange
- Votson SWIFT Syp
- QPS Oinsy navigation and acquisition software
- Benthos Autoclean data processing software
- Trimble Terrestrial charting / CAD software

Refer to report PHS-21-038-MWP-R002 for further information

ASCII 1m XYZ file used: PHS-21-038-MWP-GER-Channels\_

FBI-M004K250\_LAT\_1m\_SB\_AppNB.plt

**LEGEND:**

Depth Labels are shoal biased on a 6.0m radius, to the nearest decimetre.  $-3_3$  above datum

Contours and labels are generated from 1m BIN based on shallowest depth. Contour interval 1m.

Red contours are design level generated from 1m shallowest sounding data.

**DEPTH:**

- $< 0m$
- 0m-3m
- 3m-5m
- 5m-7m
- 7m-9m
- 9m-11m
- 11m-13m
- 13m-15m
- 15m-17m
- $> 17m$

**Channel Boundaries**

- Bumper Face
- Berth Pockets
- DUKK Exclusion Zone

**Adjoining Sheet/Strip**

- Contours
- Northern Channel Boundary
- Fender Line

**VERTICAL CONTROL:**

LAT Geraldton 2007 lies 2.608m below SSM DOT301 and 0.538m below AHD.

Soundings surveyed with accurate GNSS heighting were reduced to datum using the AUSGeoid09 model in combination with the AHD - LAT separation value of 0.538m.

**COORDINATE SYSTEMS:**

- Coordinate System : MGA84 (Zone 50)
- Geoidic Datum : GDA84
- Semi Major Axis : 6378137.0 m
- Inverse Flattening (1/f) : 298.257222101
- Projection : Transverse Mercator (South)
- Central Meridian : 117° 00' East
- Reference Latitude : 0° North
- Scale Factor at CM : 0.9996
- False Easting (X) : 500,000.0 m
- False Northing (Y) : 10,000,000.0 m
- Ellipsoid : GRS 1980

**UNCERTAINTY:**

Survey uncertainty is assessed to be no greater than:

Total Horizontal Uncertainty  $\pm 0.5m$

Total Vertical Uncertainty  $\pm 0.1m$

**SURVEY STANDARDS:**

Ports Australia Class A, IHO Special Order

**HORIZONTAL SCALE: 1/2000 (A1)**

**APPROVAL:**

PHS Representative : Neville Benson CPHS1

Signature: \_\_\_\_\_ Date: 05/01/2022

Client Representative : Sharad Kohli

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**CHART TITLE: FISHING BOAT HARBOUR PAGES BEACH**

0	10/01/22	Released for client approval	NB	VA	
A	05/01/22	Issued for internal review	NB	VA	NB

REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

Precision Hydrographic Services Pty Ltd operates under a Quality Management System certified ISO 9001:2015 by ECAS (IAS-ANZ registered).

**PROJECT: GERALDTON PORT MAINTENANCE DREDGING 2021**

**CLIENT:** MID WEST PORTS

**CONTRACTOR:** PHS

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This drawing is confidential and shall only be used for the purposes of this project

**Contract No. PHS-21-038-MWP** Doc. Farmat A1

**PHS Doc. No. PHS-21-038-MWP-C108** Sheet: 09/13