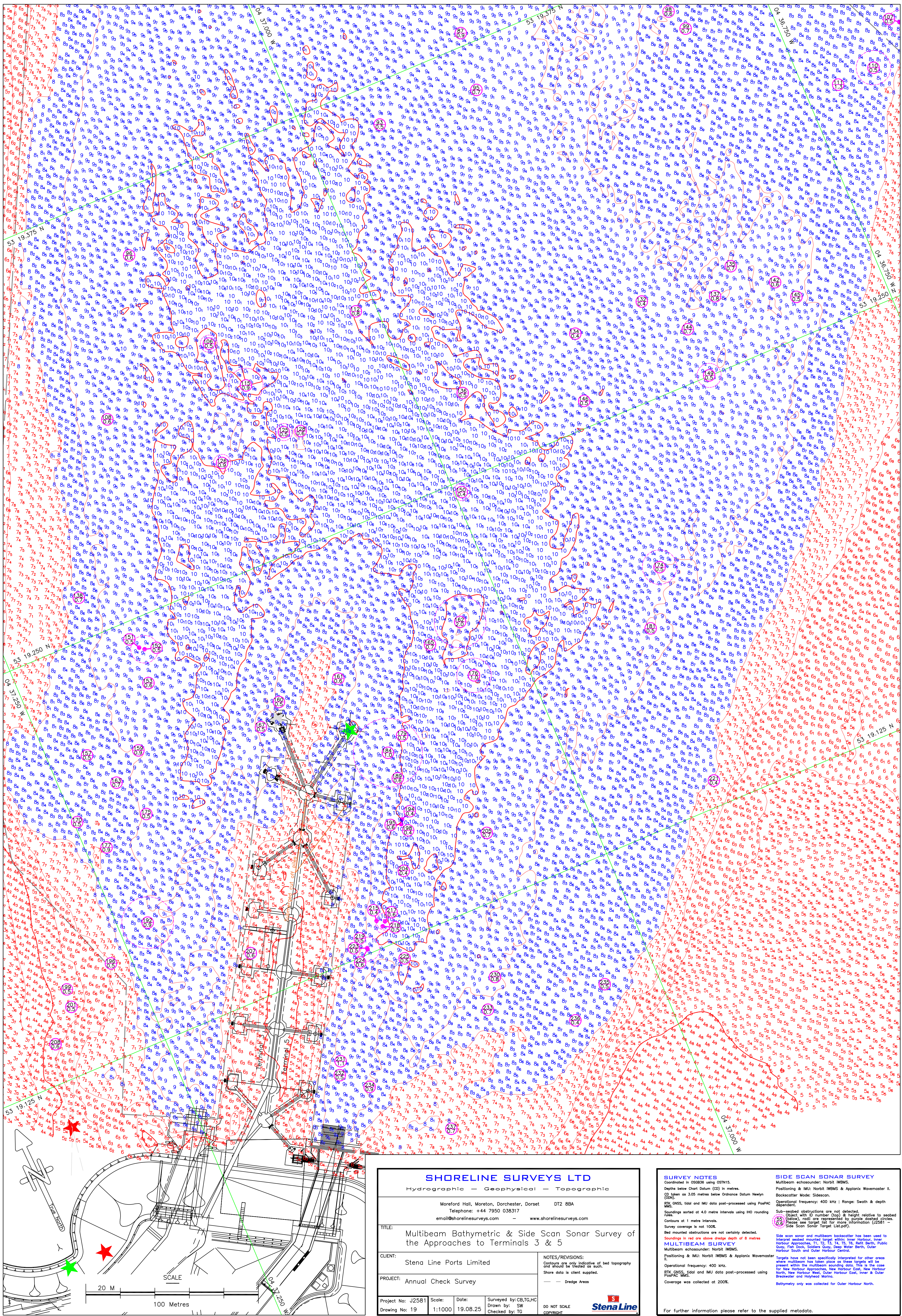




SHORELINE SURVEYS LTD

Hydrographic — Geophysical — Topographic

Moreford Hall, Moreton, Dorchester, Dorset

DT2 8BA

Telephone: +44 7950 038317

email@shorelinesurveys.com — www.shorelinesurveys.com

TITLE:

Multibeam Bathymetric & Side Scan Sonar Survey of the Approaches to Terminals 3 & 5

CLIENT:

Stena Line Ports Limited

PROJECT:

Annual Check Survey

Project No: J2581

Scale: 1:1000

Date: 19.08.25

Surveyed by:CB,TC,HC

Drawn by: SW

Checked by: TG

DO NOT SCALE

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StenaLine

NOTES/REVISIONS:

Contours are only indicative of bed topography and should be treated as such.

Shore data is client supplied.

— Dredge Areas

SURVEY NOTES

Coordinated in OGS83 using ODSN15.

Depths below Chart Datum (CD) in metres.

CG light on 3.05 metres below Ordnance Datum Newlyn (ODNN).

RTK, GNSS, tidal and IMU data post-processed using PostPAC.

Soundings sorted at 4.0 metre intervals using BHO rounding (ODNN).

Contours at 1 metre intervals.

Survey coverage is not 100%.

Bed mounted obstructions are not detected.

Soundings in red are above depth of 8 metres.

MULTIBEAM SURVEY

Multibeam echosounder: Norbit WBMS.

Positioning & IMU: Norbit WBMS & Applanix Wavemaster II.

Operational frequency: 400 kHz.

RTK, GNSS, tidal and IMU data post-processed using PostPAC.

Coverage was collected at 200%.

SIDE SCAN SONAR SURVEY

Multibeam echosounder: Norbit WBMS.

Positioning & IMU: Norbit WBMS & Applanix Wavemaster II.

Operational frequency: 400 kHz | Range: Swath & depth dependent.

Sub-seabed obstructions are not detected.

Soundings in red are above depth of 8 metres.

Side scan sonar and multibeam backscatter has been used to interpret seabed mounted target within Inner Harbour, Inner Harbour Approaches, T1, T2, T3, T4, T5, T6, Buft, Berth, Public Quay, Train Dock, Soldiers Quay, Deep Water Berth, Outer Harbour South and Outer Harbour Central.

Targets have not been specifically interpreted for other areas within the multibeam sounding data. This is the case for New Harbour, Arundel, New Harbour East, New Harbour North, New Harbour West, Outer Harbour East, Inner & Outer Breakwater and Hordwell Marina.

Bathymetry only was collected for Outer Harbour North.

For further information please refer to the supplied metadata.