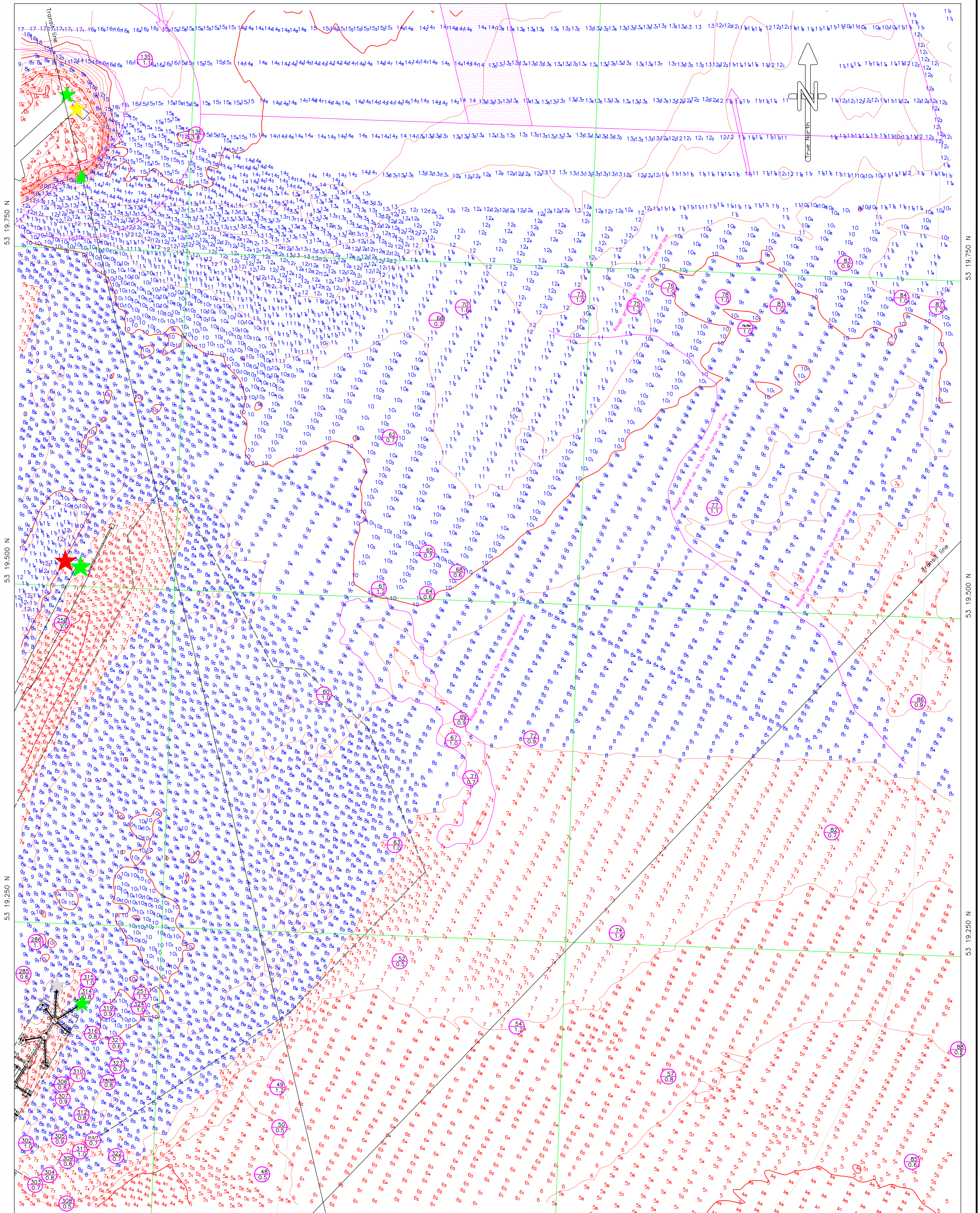


04 37.000 W

04 36.500 W



**SHORELINE SURVEYS LTD**  
Hydrographic - Geophysical - Topographic

Moreford Hall, Moreton, Dorchester, Dorset DT2 8BA  
Telephone: +44 1305 848821 or +44 7950 038317  
email@shorelinesurveys.com www.shorelinesurveys.com

**TITLE:** Outer Harbour West (Area 4)

**CLIENT:** Stena Line Ports Limited

**PROJECT:** July 2022 Annual Survey

Project No: J2095 Scale: Date: Drawn by: TFL/ML/EC  
Drawing No: 07 1:25000 Jul 2022 Checked by: EF

Surveyed by: TFL/ML/EC  
DO NOT SCALE  
COPYRIGHT **StenaLine**

**NOTES/REVISIONS:**  
Contours are only indicative of bed topography and should be treated as such.  
Shore data is client supplied.

**BATHYMETRIC SURVEY - MULTIBEAM AND SINGLE BEAM**  
Coordinated in OSG836 using OGSN15.  
Depths below Chart Datum (CD) in metres.  
CD taken as 3.05 metres below Ordnance Datum Newlyn (ODN).  
RTK GNSS, tidal and IMU data post-processed using PostPAC MMS.  
Soundings sorted at 10 metre intervals using IHO rounding rules.  
Contours at 1 metre intervals.  
Survey coverage is not 100%.  
Bed mounted obstructions are not certainly detected.  
Soundings in red are above dredge depth of 8.0 metres

**SIDE SCAN SONAR SURVEY (SEE NOTE -->)**  
Dimensions are approximate.  
Sub-seabed obstructions are not detected.  
Side scan sonar survey line spacing: 30 metres  
Side scan sonar operated at 325 kHz, 50 metre range.  
55 Object with ID number (top) & height relative to seabed.  
56 Please see target list for more information (J2095 Contacts.xls).  
57 Limit of side scan sonar survey.

Multibeam side scan sonar (backscatter) has been used to interpret seabed mounted contacts within Inner Harbour, T1, T2, T3, T4, T5, Fish Dock, Soldiers Quay, Holyhead Marina, Orford Jetty.  
Contacts have not been specifically interpreted for other areas where multibeam side scan sonar has taken place as these will be present within the multibeam sounding data.  
Side scan sonar surveys (with single beam soundings) were executed within Area 4, 5, 6 and 8 and as such all contacts have been interpreted for these locations.

53 19.000 N

53 19.250 N

53 19.500 N

53 19.750 N

04 37.000 W

04 36.500 W

50 M SCALE

250 Metres