

SHORELINE SURVEYS LTD
 Hydrographic - Geophysical - Topographic

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TITLE: Bathymetric & side scan sonar survey within the Isles of Scilly: St Mary's Harbour Approaches

CLIENT: Duchy of Cornwall - Harbour Authority

PROJECT: 2022 check survey

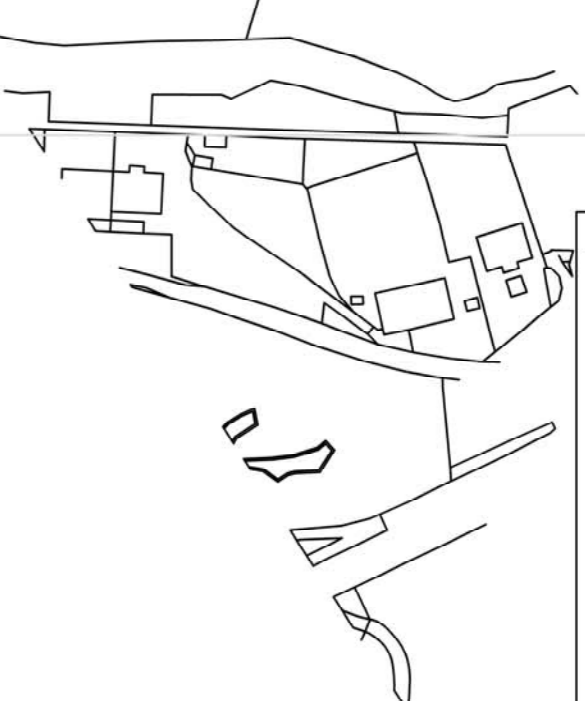
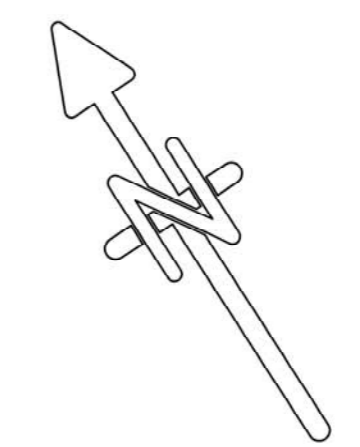
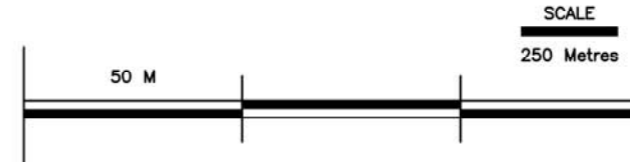
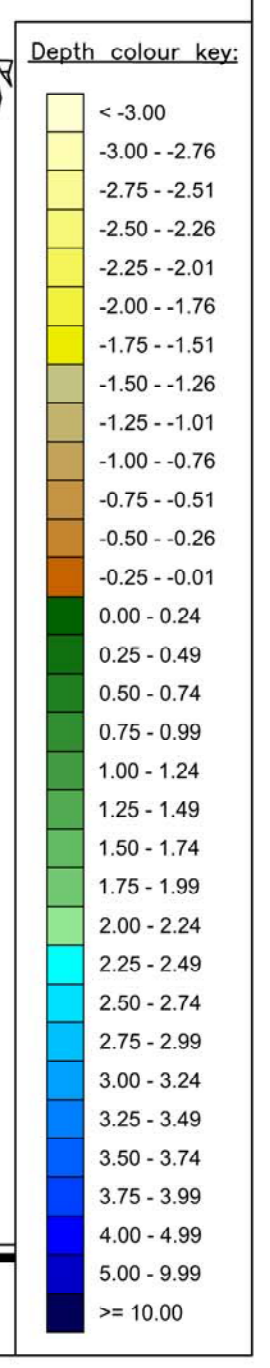
Project No: J2042 Scale: Date: Drawn by: EF
 Drawing No: 04/04 1:1750 30.05.22 Surveyed by: EF
 Checked by: TG, PL

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

SIDE SCAN SONAR SURVEY:
 Side scan data used to validate rocks, shallow features and obstructions which are present in the multibeam data.
 Sub-seabed obstructions are not detected.
 Side scan sonar survey line spacing: Typically 30 metres.
 Side scan sonar operated at 325kHz, typically 50 metre range.
 Side scan sonar survey limit (seaward of this line).
 Areas of dense vegetation and/or rocks. Soundings in these areas have lower confidence values.

MULTIBEAM SURVEY

Coordinated in OSTN15.
 Depths below Chart Datum (CD) in metres.
 CD taken as 2.91 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 0.25 metre intervals.
 Survey coverage is not 100%.
 Bed mounted obstructions are not certainly detected.



Rat Island
 Side scan survey coverage around Rat Island limited by dense vegetation. Numerous rocks and reefs in this area.

Rock Island

Depth colour key:
 -3.00
 -3.00 -2.76
 -2.75 -2.51
 -2.50 -2.26
 -2.25 -2.01
 -2.00 -1.76
 -1.75 -1.51
 -1.50 -1.26
 -1.25 -1.01
 -1.00 -0.76
 -0.75 -0.51
 -0.50 -0.26
 -0.25 -0.01
 0.00 -0.24
 0.25 -0.49
 0.50 -0.74
 0.75 -0.99
 1.00 -1.24
 1.25 -1.49
 1.50 -1.74
 1.75 -1.99
 2.00 -2.24
 2.25 -2.49
 2.50 -2.74
 2.75 -2.99
 3.00 -3.24
 3.25 -3.49
 3.50 -3.74
 3.75 -3.99
 4.00 -4.99
 5.00 -9.99
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