

WK Hydrographic Office

# UK Civil Hydrography Programme

# Hydrographic Instruction 1706

# Version 3

# NW Approaches to Liverpool Bay C

Addition to MCA Hydrographic Survey Services in UK and European Waters v 2018

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### **Document Versions**

Version Number	Date of Issue	Comment
1	27/08/2020	Issued to MCA
2	08/09/2020	Minor amendments requested by MCA
3	22/09/2020	Removal of polygon centroid from survey
		area coordinates table

#### **Abbreviated Terms**

Symbol	Meaning	
BA	British Admiralty	
CD	Chart Datum	
CORS	Continuously Operating Reference stations	
ENC	Electronic Navigational Chart	
ETRS	<b>FRS</b> European Terrestrial Reference System	
GNSS	Global Navigation Satellite System	
HI	Hydrographic Instruction	
IHO	International Hydrographic Organisation	
MCA	Maritime & Coastguard Agency	
MSL	Mean Sea Level	
MLWS	Mean Low-Water Springs	
OD	Ordnance Datum	
RoS	Report of Survey	
SD	Sounding Datum	
UKHO	United Kingdom Hydrographic Office	
VORF	Vertical Offshore Reference Frame	
WGS World Geodetic System		

#### 1. Scope

This document details the project specific requirements for conducting HI1706 – NW Approach to Liverpool Bay (Block) C. It is authored by the UK Hydrographic Office (UKHO), on behalf of the Maritime & Coastguard Agency (MCA), for issue to the appropriate contractor. The area is described in the coordinates and diagrams in section 4.

#### 2. Related Standards

The following publications are to be adhered to in the conduct of this HI:

• MCA UK Civil Hydrography Programme Survey Specification v 2018

In addition, the following documents should also be referenced and followed where applicable:

• Standards for Hydrographic Surveys. Special Publication No. 44, 5th Edition, February 2008. International Hydrographic Organisation (Order 1A).

#### 3. Government Furnished Data

The following Government furnished data will be provided to support this HI:

- All known wrecks within the limits of each survey block.
- BA Charts for the area in GeoTiff format.
- S57 ENC data for the area.
- VORF Model outputs for the area in ASCII format.
- NP37 Pilot: West Coast of England and Wales.

Note: Government furnished data remains the property of the UKHO. As such, the data must be deleted from all storage systems once the contract has been completed. All government furnished data is Crown Copyright and must not be duplicated or distributed without the permission of the MCA or UKHO. Government Furnished Data must not be used for navigation.

#### 4. Area to be Surveyed

The contractor shall survey the area stated in Table 1 in line with the UK Civil Hydrography Programme Survey Specification v 2018. All co-ordinates are quoted in ETRS89 in degrees decimal minutes.

Consideration should always be given to extending a survey area if a particular seabed feature such as the edge of a critical bank is not adequately covered by the prescribed areas. If the contractor feels an area should be extended in this way, please consult the MCA as soon as possible.

As stated in the specification, where significant differences to depths for a given area are found, particularly to the controlling depth, a Hydrographic Note (H102) should be immediately sent

to the UKHO notifying them of the critical depth changes and their positions, and copied to the MCA Hydrography & Meteorology and Receiver of Wreck Teams.



Figure 1 - Overview of Survey Area



Figure 2 - Close-up of Survey Area

HI1706 - Coordinates – 502 km <sup>2</sup>				
Point	Latitude	Longitude		
01	53°35.4698 N	004°15.5482 W		
02	53°36.8398 N	004°30.2174 W		
03	53°51.9333 N	004°30.2869 W		
04	53°52.9565 N	004°26.7400 W		
05	53°54.1065 N	004°24.0839 W		
06	53°51.7816 N	004°15.5779 W		
07	53°35.4698 N	004°15.5482 W		

Table 1 – Survey Area Coordinates

### 5. Survey Control & Positioning

Positioning System:

In line with specification.

Datum: ETRS89

Spheroid: GRS '80

Projection: UTM Grid Zone 30 North (Central Meridian 3° West)

All positioning data (including bathymetry positioning) and reports rendered as part of this survey shall be quoted in terms of the ETRS89 reference frame.

All rendered positions within RoS shall be quoted as geographical co-ordinates (i.e. in terms of Lat. / Long) as degrees and decimal minutes.

#### 6. Tides and Tidal Stream Observations

6.1 Confirmation of GNSS System and Application of VORF Model

Not required.

6.2 Tidal Data

Not required.

6.3 Tidal Stream Data

Not required.

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#### 7. Bathymetry

Full seafloor coverage shall be achieved within the defined polygon.

#### 8. Wreck Database for Area

The UKHO Wreck/Obstruction Database contains the following number of wrecks/obstructions in the survey areas:

Total: 10Live: 8Lift: 1Dead: 1

For details see

- HI\_1706\_CHP\_NW\_Approaches\_to\_Liverpool\_Bay\_C\_ListOfWrecks.csv
- HI\_1706\_CHP\_NW\_Approaches\_to\_Liverpool\_Bay\_C.html

#### 9. Seabed Sampling and Classification

9.1 Seabed Classification

Required in line with specification.

9.2 Seabed Sampling

Required in line with specification.

#### **10.** Sailing Directions

10.1 The appropriate Sailing Directions (Pilot) has been supplied in PDF format and should be checked in the field with appropriate amendments rendered. Particular attention should be paid to any recommended approach routes and anchorages within or adjacent to the survey area.

10.2 There are no specific views of land-based Landmarks required. However, it would be useful to provide views of all gas/oil production platforms encountered.

10.3 If appropriate, propose new Useful marks and/or Landmarks to support port entry and coastal passages. All proposals should be accompanied by full details including geographical position and photographs taken from seaward.

#### **11. Magnetic Anomalies, Eddies and Over-falls**

#### 11.1 Magnetic Anomalies

There are no charted magnetic anomalies in the survey area. Any such anomalies found should be reported to MCA and UKHO at the earliest opportunity to enable further investigation.

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#### 11.2 Eddies and Over-falls

Positions of all such charted features are to be checked, and any significant differences reported in line with the specification.

#### 12. Deliverables

The deliverables and RoS for this survey should not be split into multiple parts. One set of deliverables is requested.

Data should be rendered to the UKHO upon completion of processing and reporting in line with specifications. Please submit all data and reports in digital form on suitable electronic media to the address below:

#### Bathymetric Data Management (Survey Receipt) UK Hydrographic Office Admiralty Way Taunton TA1 2DN

Please note that no named individual should be addressed.