

LOOE HARBOUR COMMISSIONERS

Registered as a Charity no 291498

Vat no 144 3447 77



LOCAL NOTICE TO MARINERS NTM NO. 111021

11th – 18th OCTOBER 2021

Overwater Geophysics

Day 1

Arrival at site, launch vessel and install equipment.

Day 2 & 3 – Vessel Configured for Multibeam Bathymetry and Side Scan Sonar

Multibeam Survey (MBES)

High resolution multibeam survey using the R2Sonic 2020 in 400KHz mode.

- The MBES survey will be completed on a rising and/or high tide. Transit from berth should be possible from 07:00 BST
- The MBES survey is visible on screens within the wheelhouse allowing the surveyor to assess data coverage and density for GAP analysis.
- The MBES data will provide reference for the other sensors including information on water depth.

Side Scan Sonar Survey

The vessel will be configured for towed side scan sonar survey on a short line from the davit arm on Investigator

- The SSS survey will be completed on a high tide.
- The SSS will be towed on a short line in order not to snag the system
- The survey should be completed by 13:00 BST in order allow time to transit back to the berth
- SSS will not be towed to and/or from berth.

All data will be reviewed to ensure satisfactory coverage and suitability for purpose

Day 4 & 5 – Vessel Configured for Sub-Bottom Profiling, Magnetometry & Sampling

Magnetometry

The magnetometer will be configured in transverse gradiometer array (TGA) and deployed to tow buoy. The TGA will not be placed into the water column due to the shallow nature of the environment and the risk of snagging.

- Magnetometer will be placed in to tail buoy and towed on a short line out of the harbour
- Once in open water, the line will be extended to the operating length (estimate 15m) and towed behind the vessel
- Positioning will be provided by an RTK GNSS located on the tail buoy
- Once deployed, the tide will be checked and acquisition planned so that during the lower tides the deepest areas will be surveyed.

Sub-Bottom Profiling

The sub-bottom profiler (SBP) will be pole mounted and collect data in two frequencies, 100kHz and 15kHz.

- The SBP will be collected in 20m transects
- A review on the day may determine more suitable frequencies than those indicated

Sampling

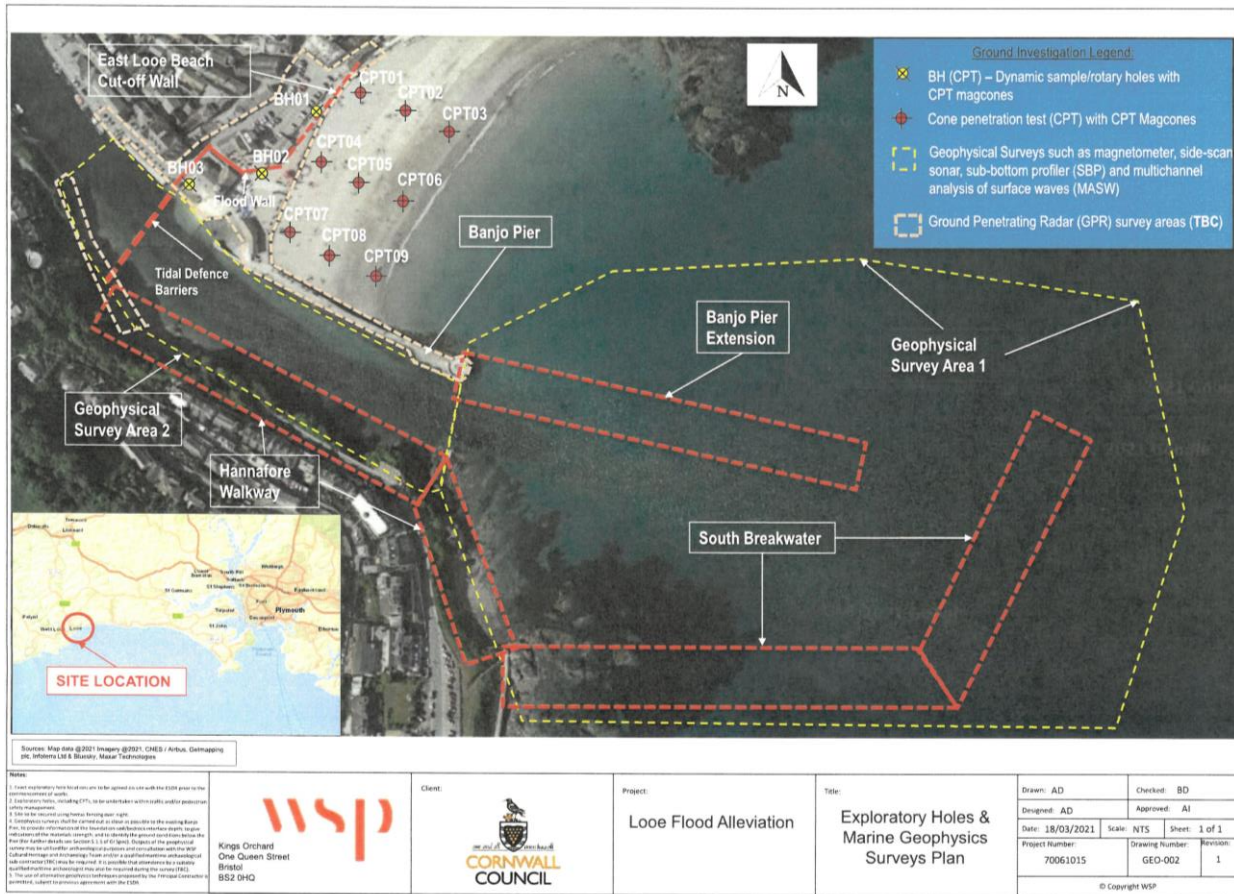
The vessel will be configured with Van Veen Grab and sampling containers

- Pre-determined locations, based on the survey results will be identified before sailing
- Vessel will transit to these sites and a sample will be taken by dropping the Van Veen Grab on a rope to the seabed.
- Estimate 6 samples will be acquired.

Day 6 – Contingency and Demobilise

Constraints

- Project work may be delayed by inclement weather – high winds/stormy weather would cause safety issues and may also compromise the quality of data captured.
- All hydrographic work will be coordinated to OS National Grid OSTN15/OSGM15 and not chart datum. However, data can be converted if required to utilise the survey outputs for navigation etc.
- Project work will be constrained by the tide as to when it will be possible to ingress and egress from the harbour. The survey day will be limited to a 6-hour period



Harbour Master
11th October 2021

This NTM will be cancelled on 18th October 2021

Distribution:
Notice Boards
Website
Market
LBOA
Sailing Club