

LOOE HARBOUR COMMISSIONERS

Registered as a Charity no 291498

Vat no 144 3447 77



LOCAL NOTICE TO MARINERS NTM NO. 160921

**20th SEPTEMBER 2021 – 18th
OCTOBER 2021**

Looe ADCP Deployment Survey 2021

METHODS:

Tidal Current and turbidity measurements

A Teledyne RDI Workhorse Waves Array ADCP will be installed to take current measurement at the location selected by the client (figure 1). The precise locations of the ADCP off East Looe Beach will be as close as possible to:

Lat 50.351055°, Lon -4.447610° see image.

The exact final location will be marked and recorded after deployment by the survey vessel. The mode of deployment will be for an anchor to be lowered with a buoy and a line run out to the ADCP which will be lowered at the required position on a weighted frame.

Current data will be collected by the ADCP at regular intervals of 15 minutes with bin sizes of 0.5m. A turbidity meter will be attached to the ADCP frame to collect turbidity data during the deployment at the same interval.

Figure 1



Turbidity monitoring and additional samples

The principal piece of equipment used will be a DKK-TOA-WQC-24 multi parameter meter (following SOP SGW-007). This will be deployed with the ADCP as described above. During the deployment approximately 20 water samples representing a range of turbidity values will also be taken (by the Harbour Master's team). These will be analysed by Ecospan Environmental Limited for turbidity and will also be sent for external lab analysis of suspended solids. The comparison of results will be used to calibrate the turbidity reading to suspended solids. This will enable all measured turbidity values to be converted to provide estimated suspended solid values.

Harbour Master
16th September 2021

This NTM will be cancelled on 18th October 2021

Distribution:
Notice Boards
Website
Market
LBOA
Sailing Club