

NOTICE TO MARINERS

Berwick Bank Wind Farm - Notice to Mariners, date 20/01/2022

Mariners are advised that a guard buoy (GB1 in Table 1, Figure 1) associated with a bottom mounted ADCP device recording metocean data within the proposed Berwick Bank Wind Farm array area has been lost. This was part of a wider deployment of three guard buoys and associated equipment in October 21 at each location (Table 1, Figure 1). Buoys 2 and 3 remain at their locations unaffected.

Our contractor is currently undertaking an investigation to inform on causes and will produce a report. Any anticipated redeployment is not expected within the next two weeks. A further notice to mariners will be published for deployment.

The replacement guard buoy is anticipated to be identical to the lost buoy and would be installed at the same location using the same methods. Any changes from the original deployment specifications would be captured within the re-deployment notice to mariners and within the Kingfisher Information Services notice.

Table 1 – Location of buoys to be removed

Location	Type	Ref	BNG EPSG:27700 Easting	BNG EPSG:27700 Northing
1	Guard Buoy (missing buoy)	1	597253.00	6239991.00
	Near-bed Frame	1	597078.00	6239986.00
	Wave Buoy	1	597384.00	6239994.00
2	Guard Buoy	2	608687.00	6225108.00
	Near-bed Frame	2	608850.00	6225173.00
	Wave Buoy	2	608566.00	6225060.00
3	Guard Buoy	3	568943.00	6253073.00
	Near-bed Frame	3	569005.00	6252910.00
	Wave Buoy	3	568900.00	6253195.00

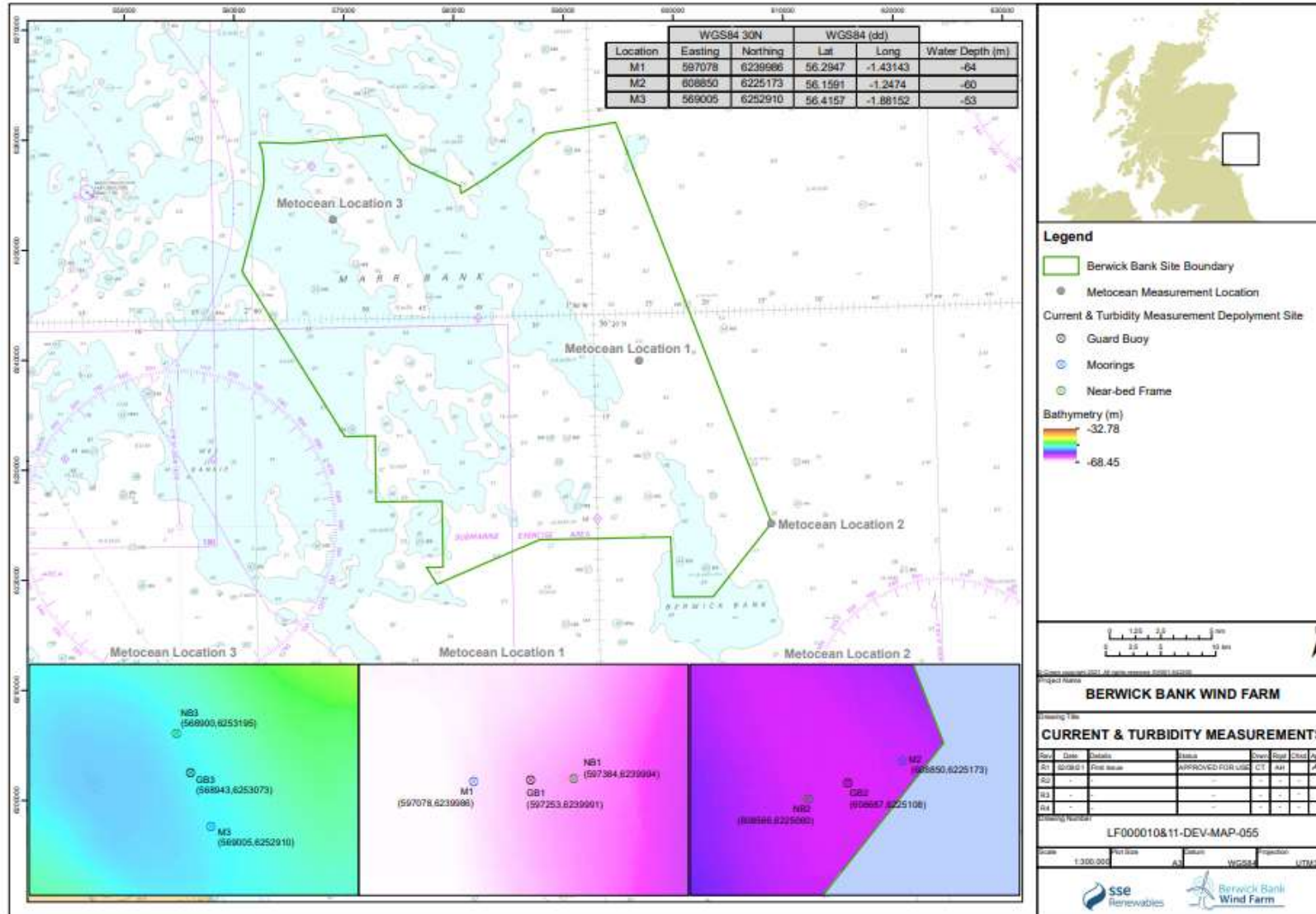


Figure 1: Equipment Locations

Lost Buoy Information

The location of the guard buoy is illustrated in Figure 1. Each deployment comprised one guard buoy, one stumpy mooring and one near-bed frame (Figure 2 and Figure 3).

The guard buoys feature a Sabik M850 LED Lantern with dedicated mooring system (see Figure 3). The system comprises a gannet buoy, moored with 22 mm pendant chain, attached to a cast iron sinker weight with a footprint of 1.6 m x 1.2 m. Each of the guard buoys features a thrash chain (approximately 28 mm in diameter) which will interact with the seabed. The length of these thrash chains for guard buoy 1 was 56m.

The three stumpy moorings, each housing a Nortek Signature 250 Khz instrument and a RBR Concerto Conductivity Temperature Depth (CTD) with a Turner Cyclops Optical Backscatter Sensor(OBS). These are single point moorings with 200 kg weight, with no ground line. These will be located 175 m from the guard buoy with an estimated footprint of 1 m².

The near-bed frame is a single reinforced fibreglass bed frame, housing a Nortek Signature 1000 Acoustic Doppler Current Profiler (ADCP). It has a footprint of 2 m x 2 m. Attached to the bed frame will be a 200 m groundline. A 50 kg weight and the acoustic release will be at the other end of this groundline. The deployed position of this weight and acoustic release will be parallel to the tide.

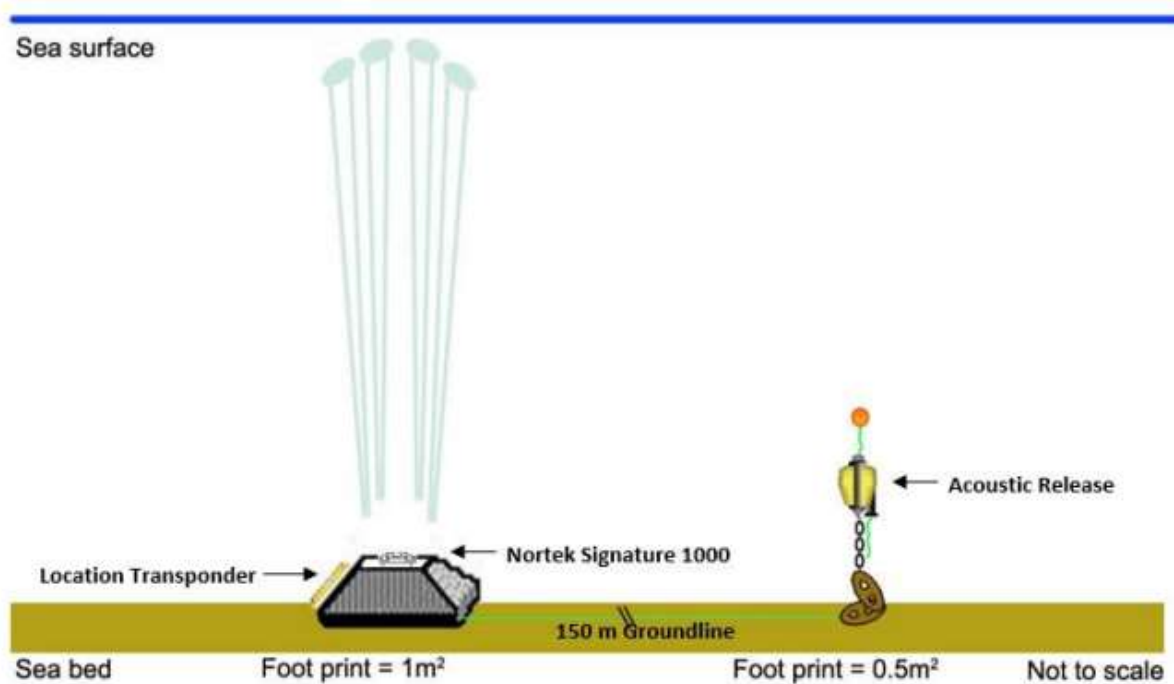


Figure 2 - Near-bed Frame Schematic (provided for contextual purposes only – actual length of groundline is 200 m and footprint of near-bed frame is 4 m²)

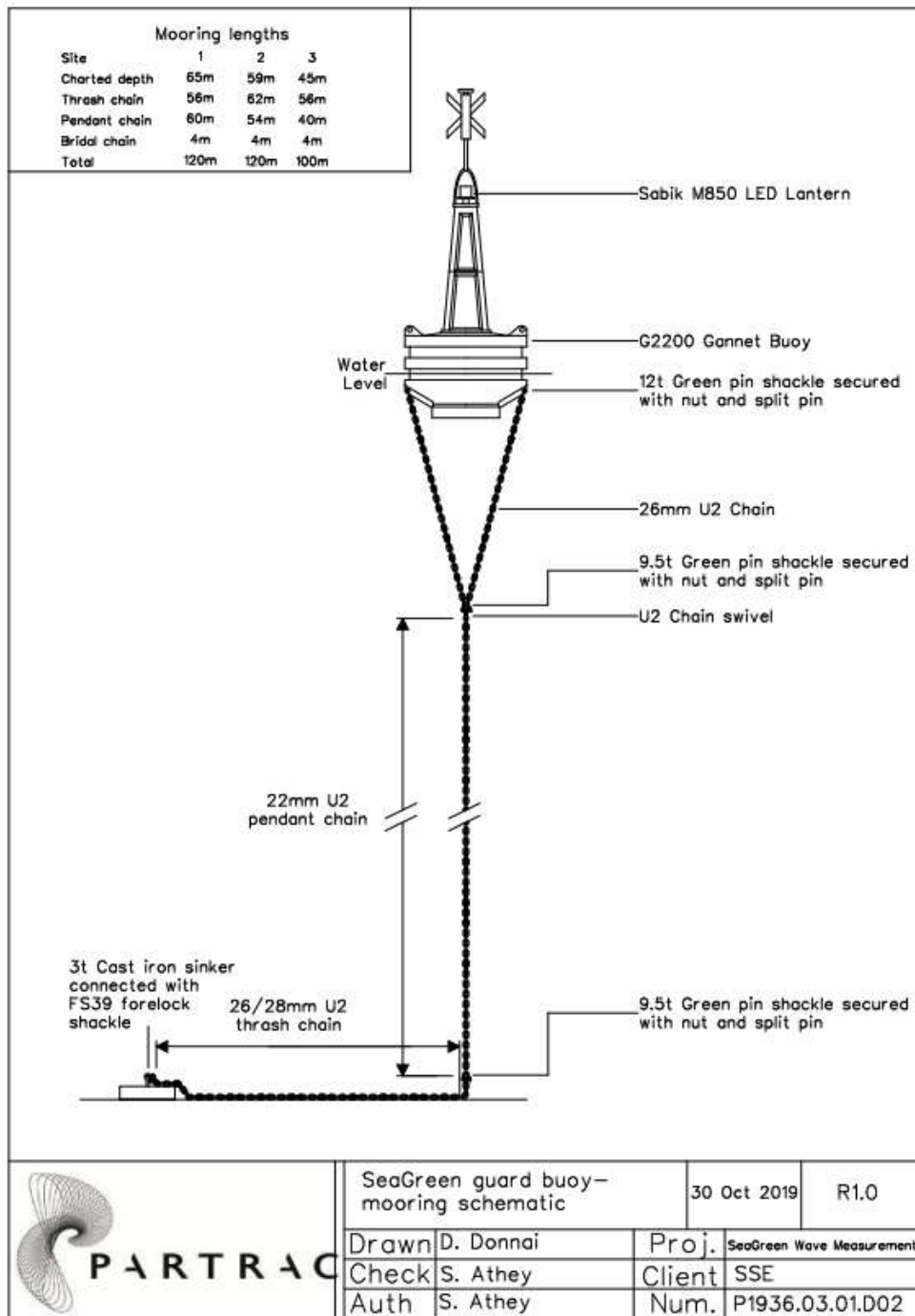


Figure 3 - Guard Buoy Mooring Schematic (already installed)

Contact Details – Fisheries Liaison

Onshore fisheries liaison for this survey will be co-ordinated by Brown and May Marine (BMM). If there are commercial fishery queries, please contact Sophie Farenden, Office T: 01379 872149; Mobile T: 07525 128344 (sophie.farenden@brownmay.com).

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