

NOTICE TO MARINERS

Berwick Bank Wind Farm - Notice to Mariners, date 06/04/2022

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 will be redeployed. This was part of a wider deployment of three guard buoys and associated equipment in October 2021 at each location (Table 1, Figure 1). Whilst GB 1 was lost, GB2 and GB3 have remained at their locations unaffected.

The replacement guard buoy is identical to the lost buoy and will be installed at the same location using the same methods, with notification also provided within a Kingfisher Information Services notice. The equipment will be deployed during April 2022, with an estimated start date for deployment set for the 16th April 2022. However, this may be subject to change due to weather and/or operational delays.

Table 1 – Location of buoys to be removed

Location	Type	Ref	BNG EPSG:27700 Easting	BNG EPSG:27700 Northing
1	Guard Buoy (being redeployed)	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

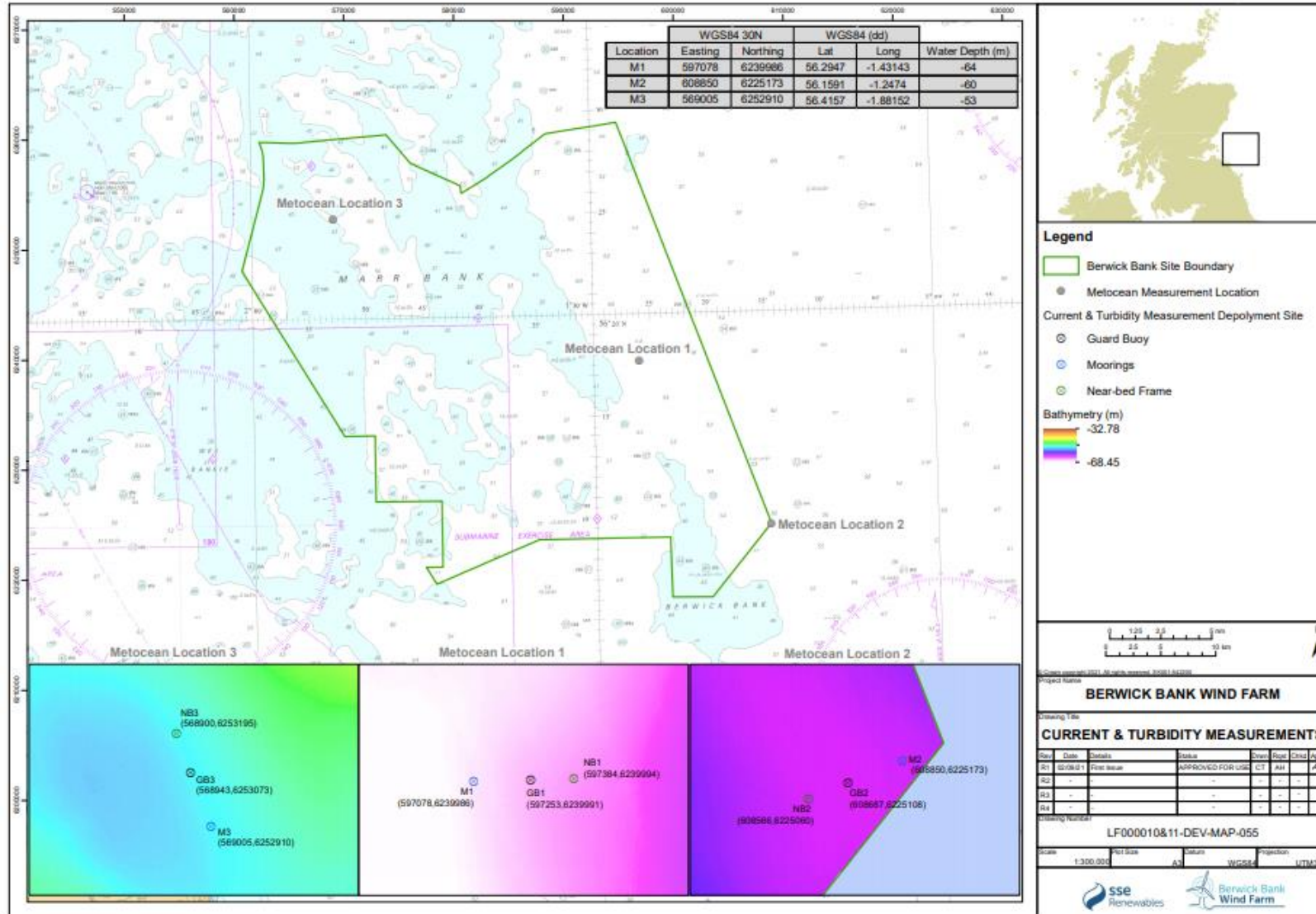


Figure 1: Equipment Locations

Guard Buoy Redeployment Information

The locations of the three guard buoys are illustrated in Figure 1. Each deployment comprised one guard buoy and one stumpy mooring. There is one near-bed frame being rotated between the three locations every 3 – 6 months (Figure 2 and Figure 3).

The deployment will be undertaken from a single vessel (currently proposed to be The Forth Warrior) and is expected to take up to three days (including transfer to site and testing of the equipment). All equipment will be loaded at the port of Burntisland (although may be subject to change) using the vessels cranes before heading to the offshore locations

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.

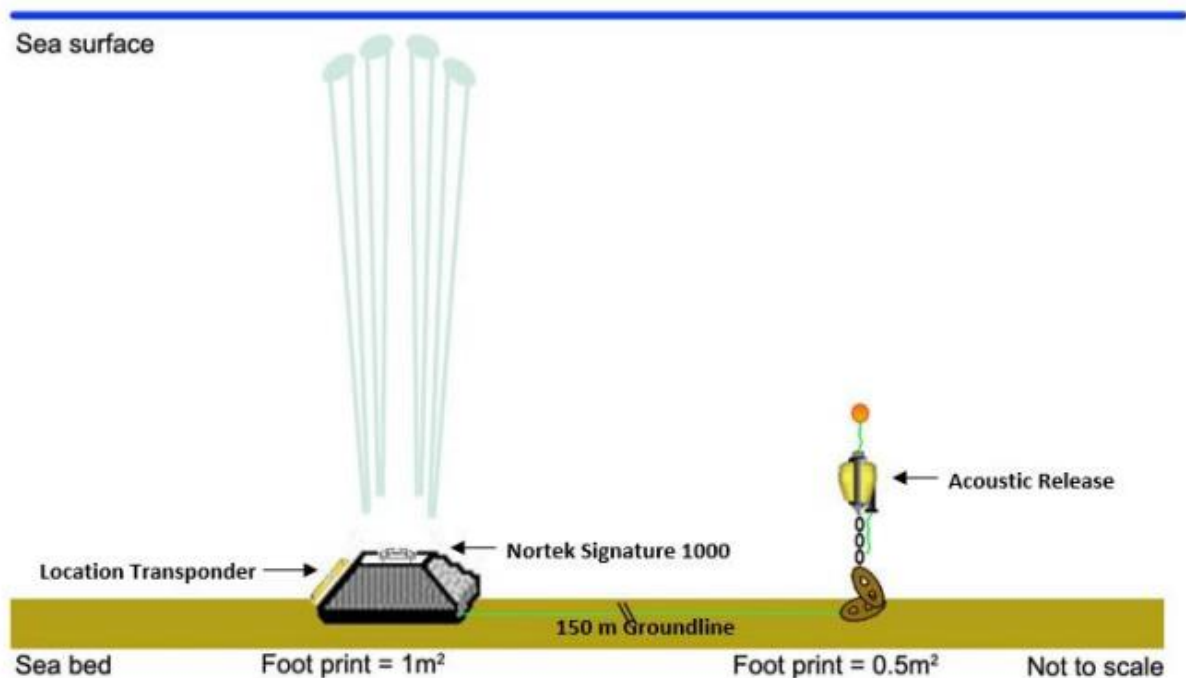


Figure 2 - Near-bed Frame Schematic (provided for contextual purposes only – actual length of groundline is 200 m and footprint of near-bed frame is 4 m²)

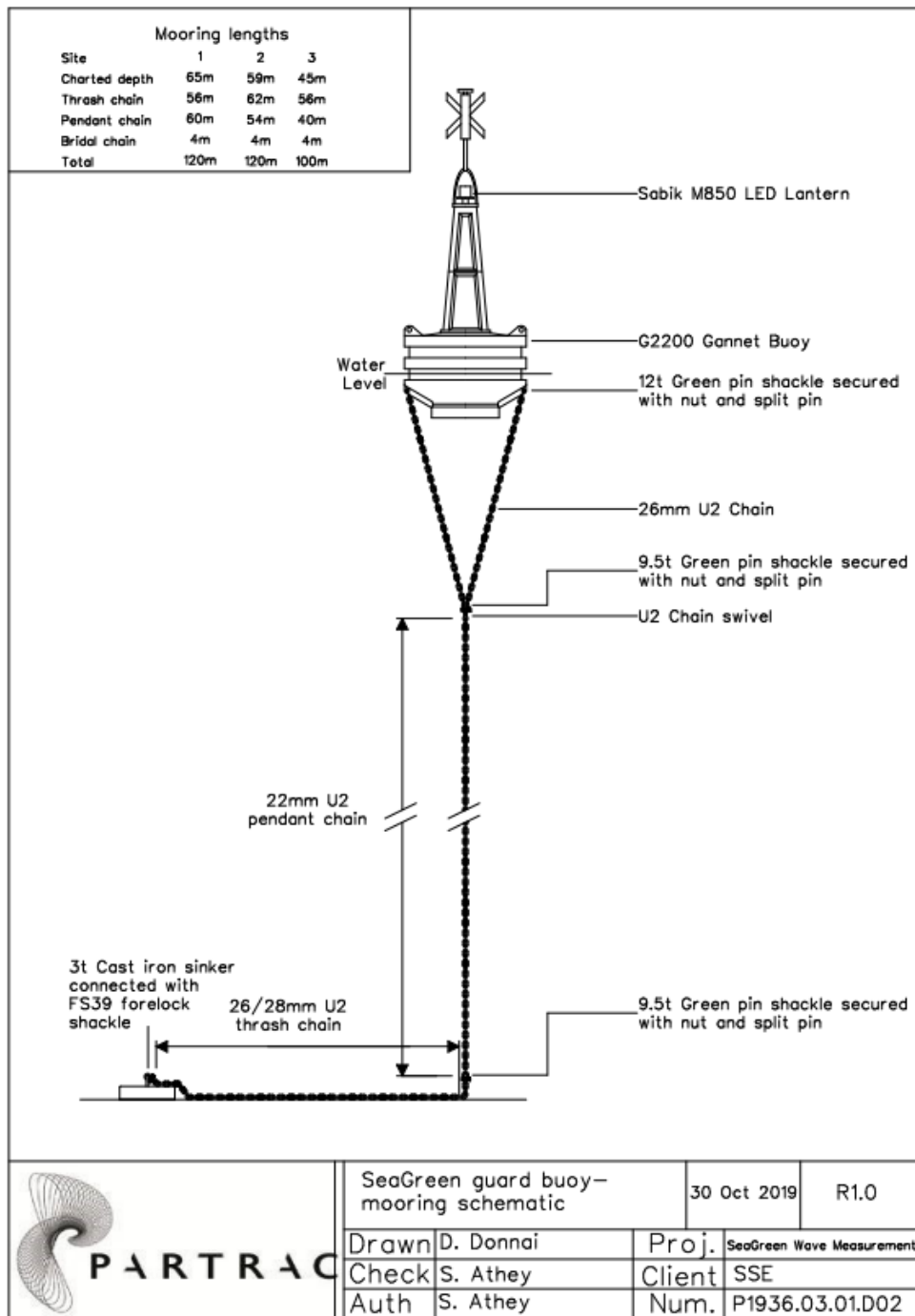


Figure 3 - Guard Buoy Mooring Schematic (already installed)

Deployment Vessel



Forth Warrior

The Forth Warrior is a utility vessel that was built in 2016 (6 years ago) and has a LOA of 27.27m, a beam of 11.50m and a draught of 2.76m.

Vessel Contact Details

Forth Warrior
Vessel Call Sign: 2JHR8
MMSI: 235116011
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Contact Details

Further marine enquiries should be addressed to the following person:

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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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