



Method Statement Template

Small-scale geotechnical sampling on foreshore fronting the Hafan y Môr holiday park (Summer 2019).

This template is intended to be used in conjunction with a Band 1 Marine Licence application. Please complete each section below following the guidance provided (max 500 words per section). For any queries relating to this template please contact: marinelicensing@cyfoethnaturiolcymru.gov.uk

1. Summary

Please provide a brief summary of the application including location of the works (coordinates - lat/long, decimal degrees). For activities that cover a large area please provide coordinates of the approximate extent of works.

Small-scale geotechnical sampling on foreshore fronting the Hafan y Môr holiday park (Summer 2019).

To inform the design and construction of proposed coastal defences at the Hafan y Môr Holiday Park, a small-scale geotechnical investigation is to be undertaken. This is required to analyse the depth of the sand layer on a section of beach at the top of the shoreline fronting the Hafan y Môr site. If there is a deep enough sand layer this could reduce the extent of the proposed development. For the proposed survey work, a 300 mm diameter tractor-mounted fence post auger will be used to excavate a depth of around 2 m. Approximately 3 to 4 sampling points will be analysed across a small area at the top of the beach. Sediment will not be removed from site but left *in situ*.

The coordinates for the location of the works are as follows (Ordnance Survey National Grid Reference):

- SH 43750 36692
- SH 43809 36764
- SH 43834 36755
- SH 43764 36692

2. Scope of works

Please provide a full description of all proposed works including:

- Sequence of works (mobilisation, marine works, site remediation (if required))
- Estimated timing of works (duration, working hours, day/night, plus contingency)
- Plant, machinery or vessel required
- Estimated quantities (removals, deposits, construction materials)

The geotechnical investigation will be completed with the use of a tractor-mounted fence post auger. No other plant or machinery will be used.

The noise level at the operator's ear for augers is suggested to be 89 to 96 A-weighted, equivalent sound level (L_{Aeq}) dB(A), and 90 to 93 L_{Aeq} dB(A) for tractors without cabs (Depczynski *et al.*, 2005). This is largely in agreement with typical noise levels presented by HSE (n.d.). Depczynski *et al.* (2005) note that these noise levels have recommended exposure durations without hearing protection of 1 hour, and 1.5 hours, respectively. For the proposed activity, the tractor or the auger will not operate for longer than this duration at any one time (i.e. they will operate separately and not continuously). This is because only 3 to 4 sample points will be investigated to a relatively shallow depth of approximately 2 m, and the beach material is relatively soft. Therefore, risks of noise exposure to beach users, as well as ecological receptors, are considered low. The intermittent noise levels will also be equivalent to those experienced in nearby agricultural areas.

A 300 mm diameter auger will be used and driven to around 2 m. Approximately 3 to 4 sampling points will be analysed and no more than 0.5 m³ (approximately) of sediment will be disturbed, but none will be removed from site.

The works are intended to be undertaken in summer 2019 (once necessary permissions and licences are granted) and will be completed within one or two low water periods to avoid tidal inundation in the works area.

References:

Depczynski, J., Franklin, R. C., Challinor, K., Williams, W., & Fragar, L. J. (2005). Farm noise emissions during common agricultural activities. *Journal of Agricultural Safety and Health*, 11(3), 325-334.

HSE (n.d.). Noise – Agriculture topics. [Online] Available at: <http://www.hse.gov.uk/agriculture/topics/noise.htm#noise-action> (accessed 17 June 2019).

3. Access and working areas

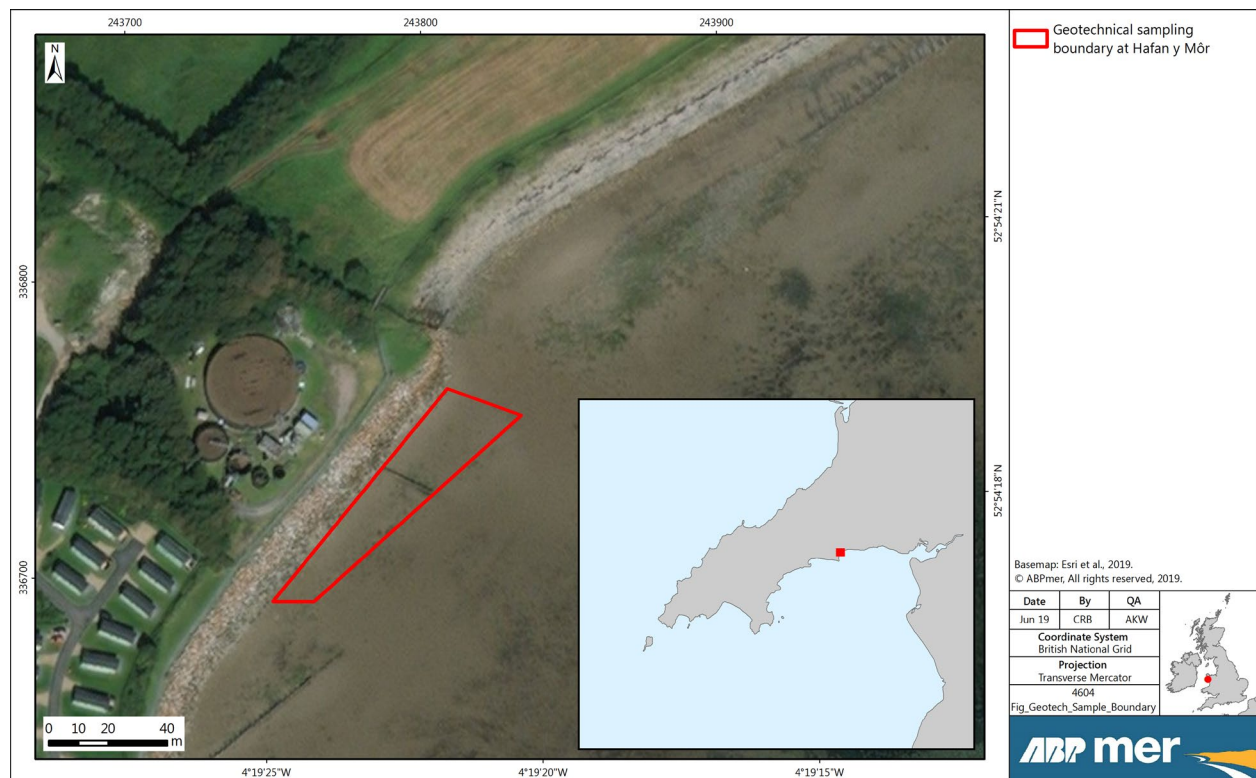
Please provide details of access to the site and working areas. This should include:

- *Attached map of the access/egress route and working areas (annotated aerial image and/or OS map)*
- *Predicted plant/vehicle movements*
- *Storage areas for plant, equipment and materials (if required)*
- *Risks to navigation*

Given the small scale of the works and minimal equipment, access to the site will be via Hafan y Môr Holiday Park. Access to the beach is likely to be via the slipway from the holiday park to the beach. Equipment comprises a 300 mm diameter tractor mounted fence post auger.

There are no risks to navigation since these works will be completed on land during low tide. The Maritime and Coastguard Agency (MCA) have no objections to the works going ahead (please see email correspondence with MCA dated 23 June 2019 – subject 'NRW Band 1 Marine Licence application').

A figure showing the location of the area for geotechnical investigation is submitted with this application.



4. Environmental mitigation

Please list appropriate mitigation measures to minimise impacts on the marine environment these may include:

- *Pollution prevention and control procedure (guidance available at: <http://www.netregs.org.uk/media/1304/gpp-5-works-and-maintenance-in-or-near-water.pdf>)*
- *Spill response kits*
- *Minimise plant traffic*
- *Designated access and egress routes*
- *Storage of materials (fuel, chemicals, construction waste)*
- *Biosecurity (guidance available at <http://www.snh.gov.uk/docs/A1294630.pdf>)*

Note: To assist you, the following mitigation statements will be used as conditions within the licence. By signing this method statement you will be agreeing to adhere to these restrictions. If you are unable to do this, the application will not qualify as Band 1.

- ✓ All equipment, temporary structures, access tracks, waste and/or debris associated with the works will be removed on completion of the works.
- ✓ Bunding, storage facilities and spill kits will be employed to contain and prevent the release of fuel, oils and chemicals associated with the plant, refuelling and construction equipment into the marine environment.
- ✓ Plant, vehicles and machinery will not be refuelled on the foreshore.
- ✓ Coatings and treatments will be suitable for use in the marine environment and are used in accordance with best environmental practice.
- ✓ All equipment, materials, machinery and PPE used will be in a clean condition prior to their arrival on site, and upon removal from site, to minimise risk of introducing non-native species into the marine environment.
- ✓ In the event of removal of any sensitive species or habitat designated by NRW under Schedule 7 of the Environment (Wales) Act 2016, no further removals will occur at that location or within 20m of that location.

Please list your bespoke mitigations here:

Given the nature and scale of the works, no bespoke mitigation measures are considered necessary to prevent adverse effects on the environment. The above listed restrictions will be adhered to where necessary.

5. Additional Information

Please list any additional information that may help with the application:

- *Consents/permissions required*
- *List of plans or drawings attached to method statement*
- *Emergency procedures*
- *Contact details*

Contact has been made with The Crown Estate to obtain coastal survey licence (see email correspondence dated 6 June 2019 – subject 'RE: Email update'). The Crown Estate require NRW marine licence reference number in order to grant licence.

Contact has also been made with the MCA to confirm there are no risks to the safety of others at sea; they have no objections to the works going ahead (see email correspondence dated 23 June 2019 – subject 'RE: NRW Band 1 Marine Licence application').

6. Customer details

Signature:



Full name:

Mr Colin Scott

Organisation name (where appropriate): **ABPmer**

Contact e mail:

crscott@abpmer.co.uk

Contact phone number:

02380 711 840