

Ian Pritchard (Staff)

From: navigation safety <navigationsafety@mcga.gov.uk>
Sent: 12 June 2024 11:19
To: Ian Pritchard (Staff)
Subject: Marine Band 1 application- Bangor University, School of Ocean Science - Response

Dear Ian,

Thank you for the additional information provided for the proposed Marine Licence Band 1 application for Bangor University, School of Ocean Science.

We note that the works are sediment sample gathering to take place between September and December 2024 for up to 20 days during which 10 samples will be taken per visit. We also note that the actual locations of sampling will be decided based on conditions on the day, and that the location area as described includes approaches to harbours, being Colwyn Bay and Liverpool, and also includes a TSS and busy area of vessel traffic.

On the understanding that the following takes place, the MCA would have no significant concerns to raise with regards to the safety of navigation and would be satisfied that the risk is relatively low on this occasion:

1. All maritime safety legislation is complied with;
2. Local notification is issued to marine users, including fishermen's organisations, relevant authorities, including Colwyn Bay and Liverpool Harbour Authorities and other local stakeholders, to ensure that they are made fully aware of the activity at least five days before commencement of the works;
3. Zone31@hmcg.gov.uk and zone32@hmcg.gov.uk must be notified prior to commencement of activities.
4. A notification must be sent to The Source Data Receipt team, UK Hydrographic Office (email: sdr@ukho.gov.uk) of commencement of the licensed activities, at least 10 days before commencement of the works. The information supplied must include the start date and end date, a description of the works, positions of the work area (WGS84), and details of any marking arrangements.
5. A risk assessment for operating in the TSS should be undertaken before the works commence, with a process in place for identifying high levels of traffic to avoid;
6. Carry out the surveys in parallel to and in the general direction of traffic flow in the lane.
7. Notify the UKHO (Navwarnings@ukho.gov.uk) for consideration any required navigational warnings;
8. Consider the width of the lanes and whether there is sufficient available sea room for vessels to pass when your vessel is stationary to collect samples etc.
9. Survey vessel to inform any relevant VTS/MRS/MRCC if waiting for any reason.
10. Consider a minimum working limit of horizontal visibility within the traffic lane i.e not less than one (1) nautical mile.

Please can you confirm that you accept the above risk mitigations?

Kind regards,

Jo Cooke

Policy Advisor

Marine Licensing and Consenting

UK Technical Services Navigation NavigationSafety@mcga.gov.uk



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Spring Place, 105 Commercial Road,
Southampton, SO15 1EG



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From: Ian Pritchard (Staff) <i.d.pritchard@bangor.ac.uk>
Sent: Tuesday, June 4, 2024 12:26 PM
To: navigation safety <navigationsafety@mcga.gov.uk>
Subject: RE: Marine Band 1 application- Bangor University, School of Ocean Science

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Dear Jo,

Thank you for getting back to me. Sorry for the delay, I've been on holiday. The application for a Marine Band 1 licence, is an annual renewal that has been running for about 4 years. It hasn't got any commercial aspects, it's all to do with teaching for the University.

Part 1 - Sorry we don't have exact coordinates for these samples, they will be determined on the day between the Captain of the RV Prince Madog and the principle scientist dependant on weather, tides, conditions and time. These teaching trips happen between the end of September and the start of December and probably for about 20 days some form of sediment sampling will take place. Up to about 10 samples per day. The day trips leave St Georges pier, Menai Bridge around 08:30 and return by 15:30hrs (this can change if the tides are not right). There are no other vessels involved with this teaching period and the RV Prince Madog is in constant consultation with Harbour authority.

Part 2

Only 1 vessel used per occasion.

I am not aware of any upcoming trips yet but would like our Marine Band 1 licence to cover this area, if the requests come in for samples.

Here is an abstract from the application form about method statements.

Please give a brief method statement outlining the proposed project

Collect Sediment and Benthic samples for undergraduate and postgraduate teaching

Part 1 : RV Prince Madog will be taking students out on a series of day trips to collect Sediment and Benthic samples using the Day Grab (Benthic), Shipeck Grab (Sediment) and Gravity corer (Sediment), the sample sites are not pre determined but will be taken within the marked area of Map 1. When on station the ship will disengage power, then the Grab/corer will be deployed off the stern and allowed to freefall through the water column, after contact with the bottom the Grab/Corer will be retrieved using a winch. Once on deck the samples from the shipeck and Gravity corer are stored and labelled accordingly; For the day grab the students will sieve the sample and retain everything >1mm then store in a labelled bucket. All samples are then transported back to Ocean science for fixing (if required) and further analysis. After each station the equipment is thoroughly cleaned and rinsed down.

SAMPLER DETAILS QUANTATITY & VOLUME OF SAMPLES EXTRACTED

Day Grab Max sample size 0.012 m^3 (12ltr). Maximum no Samples 150 . Total Volume $\sim 1.8 \text{ m}^3$.

Shipeck Grab Max sample size 0.003 m^3 (3ltr).Maximum no samples 120.Total Volume $\sim 0.36 \text{ m}^3$

Gravity Corer Typical sample size 0.008 m^3 (8 ltr). Maximum no Samples 10. Total Volume $\sim 0.08 \text{ m}^3$ TOTAL VOLUME OF SEDIMENT EXTRACTED FOR PART 1 = $\sim 2.24 \text{ M}^3$ ($1.8+0.36+0.08$)

PART II: Collect samples for undergraduate and postgraduate projects, sites yet to be determined but could be anywhere in the waterbodies surrounding Anglesey and North Wales see Map 2. Most of these samples will be collected using the smaller University boats Macoma or Mya with the occasional samples taken onboard the RV Prince Madog.

On the smaller vessels, boat operation will be the same as for PART I ,but the smaller more lightweight Van Veen grab will be used for sampling. The Van Veen Grab is deployed by hand over the side and allowed to freefall the final few meters before hitting the bottom. It is then hauled back on deck by hand. Samples are then bagged and labelled for further analysis..

SAMPLER DETAILS QUANTATITY & VOLUME OF SAMPLES EXTRACTED

Van Veen Grab Max sample size 0.0012 m^3 (1.2ltr). Maximum no samples 150 Total Volume $\sim 0.18 \text{ m}^3$

TOTAL VOLUME OF SEDIMENT EXTRACTED FOR THE PROJECT 2.24 M^3 (Part I) + 0.18 M^3 (Part II) = 2.42 M^3

Please state the measures to be taken to minimise risk to the marine environment

Anchor will not be used when on station.

On day trips . No formalin will be used onboard , biological fixing will be done back at base.

Students have a briefing/Induction which includes Personal safety and Social responsibility (PSSR) highlighting the importance of not disposing of anything overboard. Equipment to be thoroughly cleaned and washed between stations.

If any non native species are sampled they will be retained and disposed of accordingly, position will be noted and NRW informed. No Sampling within 50m of any sensitive areas, historical sites or IMO TSS area unless prior permission has been

given from the relevant bodies. Student projects that sample these sensitive sites are usually done in collaboration with the relevant bodies i.e NRW .

Please state the measures to be taken to prevent undue interference to others

Sampling time kept to a minimum less than 10 minutes per station .

Sampling will be paused if other vessels are in close proximity.

If other vessels are occupying the position of the sampling station then a sample will be taken a safe distance away from that vessel. Captain/Skipper to stay vigilant of any danger.

Please state the measures to be taken to maintain navigational safety, including marking and lighting of works

All operations will be conducted in accordance with the International Regulations for preventing Collisions at Sea (COLREGS). the correct shapes and light sequence will exhibited accordingly (COLREGS).

Sampling time kept to a minimum. No work to be carried out in IMO TSS designated areas. Captain/Skipper to communicate with local harbour authority throughout and be vigilant of any danger.

Sorry, the information is a bit vague . But please call me if you need further information.

Best Regards

Ian Pritchard

Ian Pritchard
Chief Technician
School of Ocean Science
Bangor University

07818017214

From: navigation safety <navigationsafety@mcga.gov.uk>
Sent: Wednesday, May 15, 2024 1:46 PM
To: Ian Pritchard (Staff) <i.d.pritchard@bangor.ac.uk>
Subject: RE: Marine Band 1 application- Bangor University, School of Ocean Science

Dear Ian,

Thank you for the information provided for your Marine Licence Band 1 application to undertaken survey trips within the stated areas of the northern Welsh coast in the Liverpool Bay area.

Due to the high density of vessel traffic in the area, particularly for part 2, and the potential adverse effects on shipping, there is a requirement for additional risk mitigation measures. Therefore, to be in a position to respond to your question if this Marine Band 1 licence application will not cause any undue navigational risk to sea traffic the MCA need to be reassured there is no danger to the safety of navigation and as a result can you please provide more specific details as requested below.

For Part 1:

Can you please provide the exact co-ordinates of the area you wish to cover as marked on the provided chart and any details (co-ordinates) as to pinpoint the intended locations of the grab samples within the area?

During the period mentioned September to December 2024, please advise the intended frequency of survey trips and duration, and how many samples will be taken on each survey trip, plus the number of vessels on each survey trip.

As the area covers the approach to Colwyn Bay Harbour, please advise what, local consultation has taken place with the local Harbour Authority.

For part 2:

Can you please confirm that 3 vessels will be used on each occasion.

Can you please the co-ordinates of the area you wish to take samples from and, also the intended sample sites?

Can you please advise the intended start and finish dates of the survey trips and the number and frequency of trips expected to take place during this period?

Can you please provide a copy of any risk assessment that has been undertaken when in busy shipping areas and in particular while travelling within the TSS.

We note that some of the marked area on the chart provided sit within three Statutory Harbour Authorities (Caernarfon Harbour Trust, Colwyn Bay Council and Holyhead Port Authority). Can you please advise what, if any, consultation has taken place?

For both activities, can you please advise the size of the vessels you are intending to use and would it be possible to provide larger scale charts that would provide more detail.

Ans also can I please also check that as part of this Band 1 application, NRW have already been consulted?

We will review this additional information, and provide our response once received.

Many thanks for your assistance.

Kind regards,

Jo Cooke

Policy Advisor

Marine Licensing and Consenting

UK Technical Services Navigation NavigationSafety@mcga.gov.uk



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From: Ian Pritchard (Staff) <i.d.pritchard@bangor.ac.uk>
Sent: Wednesday, May 8, 2024 9:42 AM
To: navigation safety <navigationsafety@mcga.gov.uk>
Subject: Marine Band 1 application- Bangor University, School of Ocean Science

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Dear sir/Madam,

I am writing to check that the proposed activities for our Marine Band 1 licence application will not cause any undue navigational risk to sea traffic.

- The proposed work is to take grab/sediment samples for scientific research (Teaching).
- Sites are yet to be determined but the application is in two parts ;
- Part 1 – Teaching (Day trips) between Sept and December onboard the RV Prince Madog, samples will be taken within the area (see attached map 1).
- Part II – Undergraduate and Postrgraduate projects, will happen throughout the year within the waters surrounding Anglesey and North wales (SEE attached MAP 2). This work will mainly be conducted on the smaller vessels Macoma /MYA using a hand operated grab with the occasional grab sample taken onboard the RV Prince Madog.
- The vessel will disengage power and display the relevant shapes/lights under the COLREGS when on station.
- Sampling time will be less than 10minutes per station.
- Average sample size will be 0.002m³(2ltrs) onboard the RV Prince Madog and 0.0005m³(0.5ltrs)onboard the smaller vessels
- Samples will not be taken from Sensitive, protected, historical areas or IMO TSS.

Please let me know if you need any further information.

Best Regards

Ian Pritchard

Mae croeso i chi gysylltu gyda'r Brifysgol yn Gymraeg neu Saesneg. Ni fydd gohebu yn Gymraeg yn arwain at oedi.

You are welcome to contact the University in Welsh or English. Corresponding in Welsh will not lead to delay.

Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565

Gall y neges e-bost hon, ac unrhyw atodiadau a anfonwyd gyda hi, gynnwys deunydd cyfrinachol ac wedi eu bwriadu i'w defnyddio'n unig gan y sawl y cawsant eu cyfeirio ato (atynt). Os ydych wedi derbyn y neges e-bost hon trwy gamgymeriad, rhowch wybod i'r anfonwr ar unwaith a dilewch y neges. Os na fwriadwyd anfon y neges atoch chi, rhaid i chi beidio a defnyddio,

cadw neu ddatgelu unrhyw wybodaeth a gynhwysir ynddi. Mae unrhyw farn neu safbwynt yn eiddo i'r sawl a'i hanfonodd yn unig ac nid yw o anghenraid yn cynrychioli barn Prifysgol Bangor. Nid yw Prifysgol Bangor yn gwarantu bod y neges e-bost hon neu unrhyw atodiadau yn rhydd rhag firysau neu 100% yn ddiogel. Oni bai fod hyn wedi ei ddatgan yn uniongyrchol yn nhestun yr e-bost, nid bwriad y neges e-bost hon yw ffurfio contract rhwymol - mae rhestr o lofnodwyr awdurdodedig ar gael o Swyddfa Cyllid Prifysgol Bangor.

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Gall y neges e-bost hon, ac unrhyw atodiadau a anfonwyd gyda hi, gynnwys deunydd cyfrinachol ac wedi eu bwriadu i'w defnyddio'n unig gan y sawl y cawsant eu cyfeirio ato (atynt). Os ydych wedi derbyn y neges e-bost hon trwy gamgymeriad, rhowch wybod i'r anfonwr ar unwaith a dilewch y neges. Os na fwriadwyd anfon y neges atoch chi, rhaid i chi beidio a defnyddio, cadw neu ddatgelu unrhyw wybodaeth a gynhwysir ynddi. Mae unrhyw farn neu safbwynt yn eiddo i'r sawl a'i hanfonodd yn unig ac nid yw o anghenraid yn cynrychioli barn Prifysgol Bangor. Nid yw Prifysgol Bangor yn gwarantu bod y neges e-bost hon neu unrhyw atodiadau yn rhydd rhag firysau neu 100% yn ddiogel. Oni bai fod hyn wedi ei ddatgan yn uniongyrchol yn nhestun yr e-bost, nid bwriad y neges e-bost hon yw ffurfio contract rhwymol - mae rhestr o lofnodwyr awdurdodedig ar gael o Swyddfa Cyllid Prifysgol Bangor.

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