



Planning
Offshore Wind
Strategic
Environmental
Impact
Decisions

POSEIDON Benthic Sampling Protocols Document

Version 2.5

Document amendments

Section	Change	Who	Version
1.2	Total number of POSEIDON stations (Lots 1-5) reduced from 1,928 to 1,259.	KC	2.0
1.2	Figure 3 shows revised numbers of stations by individual lot (Lot 1 reduced from 587 to 375).	KC	2.0
2.1.3	Van Veen grab added to acceptable sample collection devices.	KC	2.0
2.2	The two grab deployments required for macrofauna/psa and organic carbon /eDNA respectively may now be acquired using a twin sampling device (e.g. twin 0.1m ² Van Veen grab).	KC	2.0
2.2	Choice of 0.1m ² grab sampling device (i.e. Hamon, Day or Van Veen) is left to discretion of the contractor, noting the need for valid sample collection and that the Hamon grab is most likely to be successful in coarser sediments.	KC	2.0
2.2.3	Section added for Van Veen Deployment/Recovery.	KC	2.0
2.4.2	Section added for Van Veen Sample Processing.	KC	2.0
ANNEX 1 & 2	Links provided to OneBenthic Layers tool (and written report) for further information on predicted biotope type (e.g. Numbers of taxa (family level) and individuals).	KC	2.0
ANNEX 1 & 2	Reduced station array (375 sites), including predicted biotope (macrofaunal assemblage) type.	KC	2.0
ANNEX 1 & 2	Final Array	KC	2.1
3.2	Updated link for PSA sample processing methodology	KC	2.1
3.2.1	Reference to RSMP removed (changed to POSEIDON)	KC	2.2
ANNEX 3	Requirement added to clean grab bucket to avoid DNA contamination between sites.	KC	2.2
Figs 1, 3	Updated to reflect changes in number of samples	KC	2.3
2.2	Added requirement to collect video footage of grab deployment.	SB	2.3
2.2	Requirement added to clean grab bucket with bleach solution to avoid DNA contamination between sites.	KC	2.3
APPENDICES	Full survey arrays added for Lots 3 (Celtic Sea), 4 (South West) and 5 (English Channel). Note Lot 3 includes a small number of samples to be collected within the Cape Bank MCZ.	KC	2.3
Figure 3	Updated to show 'active' stations only and reduced South West array.	KC	2.4
APPENDIX 2 – Lot 4 South West Array	Stations beyond 150nm removed from array.	KC	2.4
APPENDIX 5	Addition of a decision tree for grab sampling. Reference to this made in Section 2.2.	KC	2.5

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1. Introduction

1.1 The POSEIDON project

POSEIDON (Planning Offshore Wind Strategic Environmental Impact DecisiONs) is a Crown Estate-funded project (Offshore Wind Evidence & Change program (OWEC)) led by Natural England. The aim of the project is to provide tools to inform offshore wind planning, to minimise impacts on the natural environment through avoidance and early awareness of likely mitigation / compensation needs, allowing sustainable expansion of offshore wind. This will be achieved through the collection of strategic environmental baseline data and updated spatial models for key species (receptors), assemblages, and a suite of ecological metrics (diversity, functional traits). These models will be used to identify regions that are most vulnerable to offshore wind impact. Mapping environmental risk in this way will help guide future offshore wind development rounds and wider marine planning.

Some evidence on species and habitat distribution and abundance exists, but is often disparate, patchy and difficult to incorporate. POSEIDON aims to create a revised system which describes environmental risk across the England and Wales, that can be applied to offshore wind (and other marine sector) planning. It is the intention of the project that this will become integrated with marine plans and help offshore wind decisions to comprehensively factor in risks to consent and risks to the environment. It will also help inform plan-level requirements for mitigation and compensation which can then be built into development project designs (and budgets) at the outset, as well as providing a template for future data collection at regional scale to support (and, potentially, speed up) planning and impact assessment.

POSEIDON, therefore, enables developers to make use of any data that already exists for their lease area, allowing them to undertake more targeted surveys aimed at habitats or species which may cause the greatest environmental consenting risk, or where more information is required to fully assess the potential impacts of the developments. This will provide greater certainty in the environmental impact assessment and the data used to underpin it.

The outcomes of the project will be:

1. A clear understanding of the environmental risks and opportunities for future offshore wind developments (embedded into wider marine planning).
2. Information to support developers, advisors, and decision-makers for current and imminent development rounds.
3. A comprehensive environmental baseline platform that maximises existing knowledge and allows targeted, efficient design of future baseline evidence requirements at plan and project scale.

The three ecological receptors that fall into the remit of POSEIDON are marine benthic invertebrates, seabirds and mammals. This document pertains solely to the former of these three.

1.2 The OneBenthic database and assessment of areas for sampling under POSEIDON

To identify the gaps in our current understanding of the distribution of marine benthic invertebrate assemblages, together with identifying areas of high and low diversity, areas which harbour unique and/or spatially restricted species or communities, or regions where the benthic assemblages potentially provide important ecosystem functioning, a data review and collation exercise was initially undertaken within POSEIDON. For marine benthic invertebrates, the OneBenthic (OB) initiative (https://rconnect.cefas.co.uk/onebenthic_portal/) was used as the basis for this task. OB is a PostgreSQL database, built to bring together publicly available benthic data for use in big data studies. At present, OB (Grab/Core) contains 47,730 grab and core samples (Figure 1) from 847 surveys.

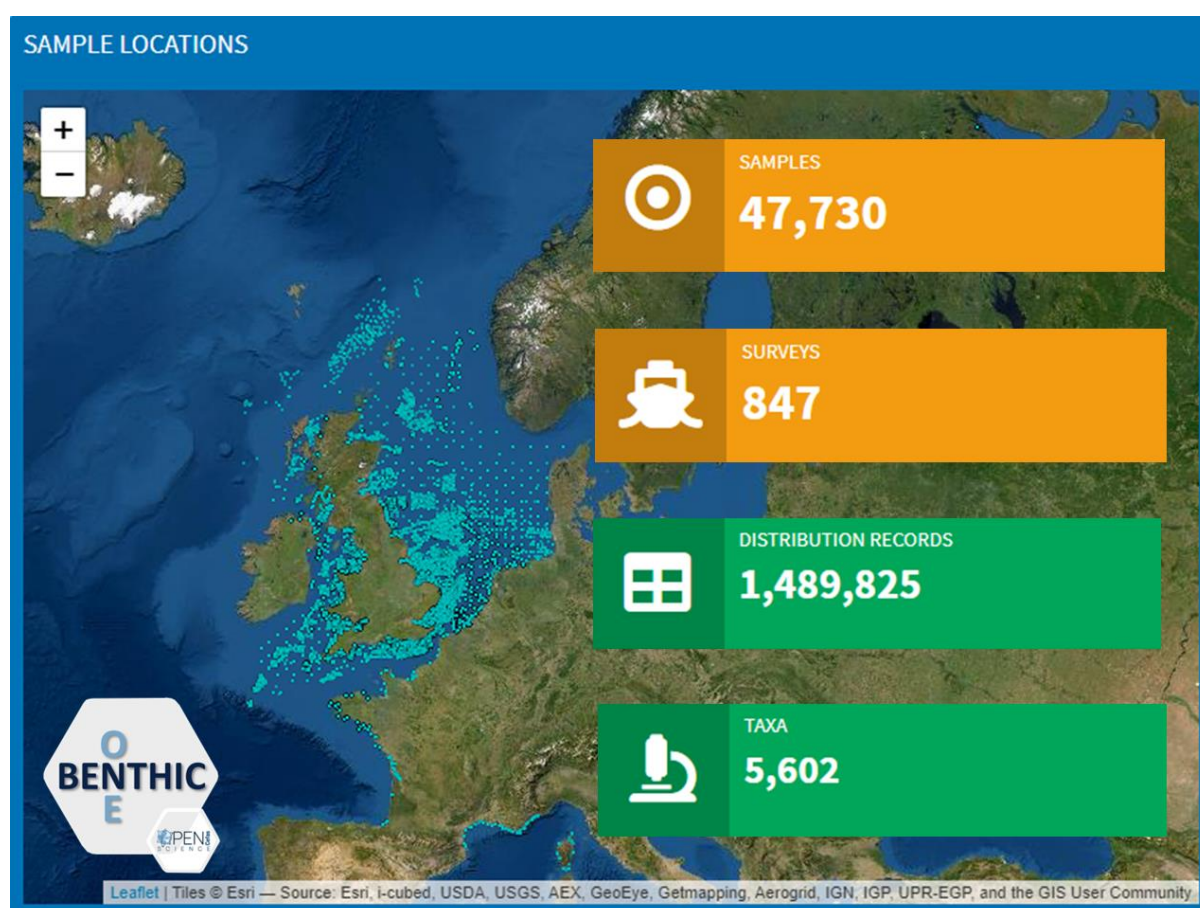


Figure 1. Distribution of the grab/core samples for which the macrofaunal species abundance data are contained within OneBenthic.

A variety of web apps linked to the OB dataset are made available through the Cefas Open Science portal (<https://openscience.cefas.co.uk/>). Those with relevance to the POSEIDON and the collection of new grab sample data include:

OneBenthic Survey Array tool https://rconnect.cefas.co.uk/onebenthic_surveyarray/

OneBenthic Data Extraction tool https://rconnect.cefas.co.uk/onebenthic_dataextractiongrabcore/

OneBenthic Dashboard https://rconnect.cefas.co.uk/onebenthic_dashboard/

OneBenthic Layers tool https://rconnect.cefas.co.uk/onebenthic_layers/

The **Survey Array tool** (Figure 2a) provides a record of survey arrays and associated protocols. This app is the first step in working towards greater integration of monitoring programmes (see Barrio Froján, Cooper & Bolam, 2016). The positions for sampling under POSEIDON can be obtained via this tool. The **Data Extraction Tool** (Figure 2b) allows users to identify and download data from *OneBenthic*, facilitating research and reducing the need for collection of new samples. The **Dashboard** (Figure 2c) provides a view of the data held within the *OneBenthic* database. The **Layers tool** (Figure 2d) provides modelled layers for different aspects of benthic biodiversity. These models will be updated, and others developed, using the enhanced dataset produced under POSEIDON.

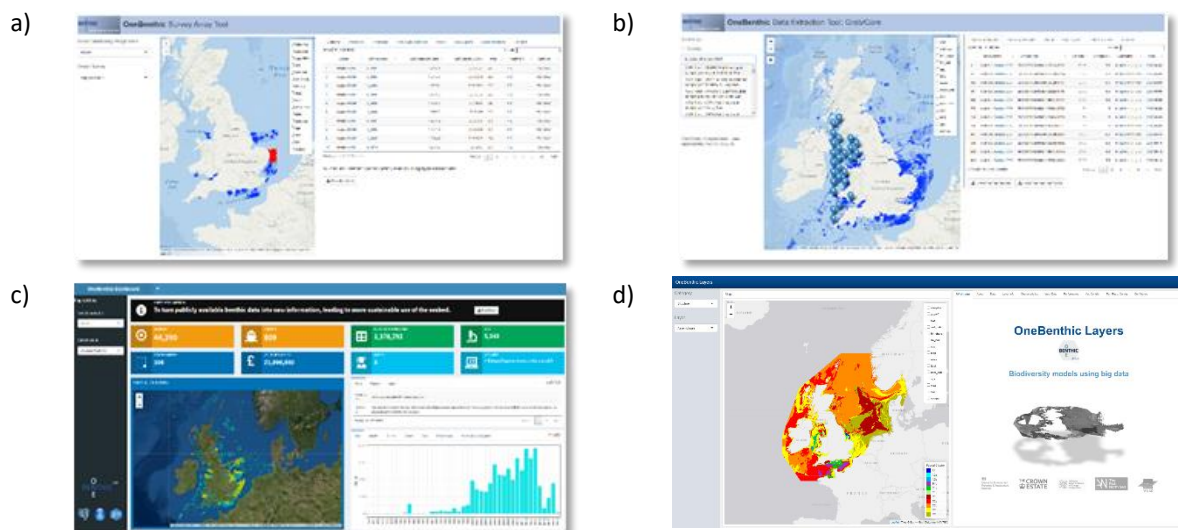


Figure 2. Screen shots for: a) *OneBenthic Survey Array Tool*, b) *OneBenthic Data Extraction tool (grab/core)*, c) *OneBenthic Dashboard* and d) *OneBenthic Layers tool*. All tools available from <https://openscience.cefas.co.uk/>.

Following an iterative process, based on the collated data, which involved identifying where the spatial gaps in sample coverage exist within the territorial waters of England, Wales and the Isle of Man, 1,022 sample locations ('stations' hereafter; Figure 3) were identified for sampling under POSEIDON. The stations are all located in regions where macrofaunal data have not been collected (based on the existing data held within *OneBenthic*), they span all the eleven macrofaunal cluster groups (as defined by Cooper et al. (2022)) present across this spatial extent and present a higher array density in regions where the confidence in the distribution of modelled assemblages is relatively low. The 1,022 stations were then categorised into 5 Lots (Figure 3) upon which the subsequent sample acquisition will be managed. Samples from Lots 1 and 2 were collected in 2022 while Lots 3, 4 and 5 will be targeted for sampling during 2023. The provisional sample locations for Lots 3 (Celtic Sea), 4 (South West) and 5 (English Channel) are provided in Appendices 1, 2 and 3 respectively. To

note, work under Lot 3 (Celtic Sea) includes 18 stations associated with the Cape Bank MCZ site. Unlike all other samples collected under POSEIDON, these samples (macrofauna and sediment particle size only) will be collected by the contractor, but returned to Cefas for processing.

Note that whilst the Appendix tables provide the full station array for each Lot, the intention is that only a subset of stations will require sampling. These stations are provisionally identified as 'TRUE' in the 'Active' column of each Appendix table. Contractors should submit the full array to the Crown Estate for purposes of a Conflict Check. The results of this exercise must be shared with Cefas, with the contractor clearing identifying which stations can and cannot be sampled. Cefas will then issue the contractor with a definitive list of target stations. Note that the number of stations (and general location) to be sampled in each Lot will not change from that shown in Figure 3.

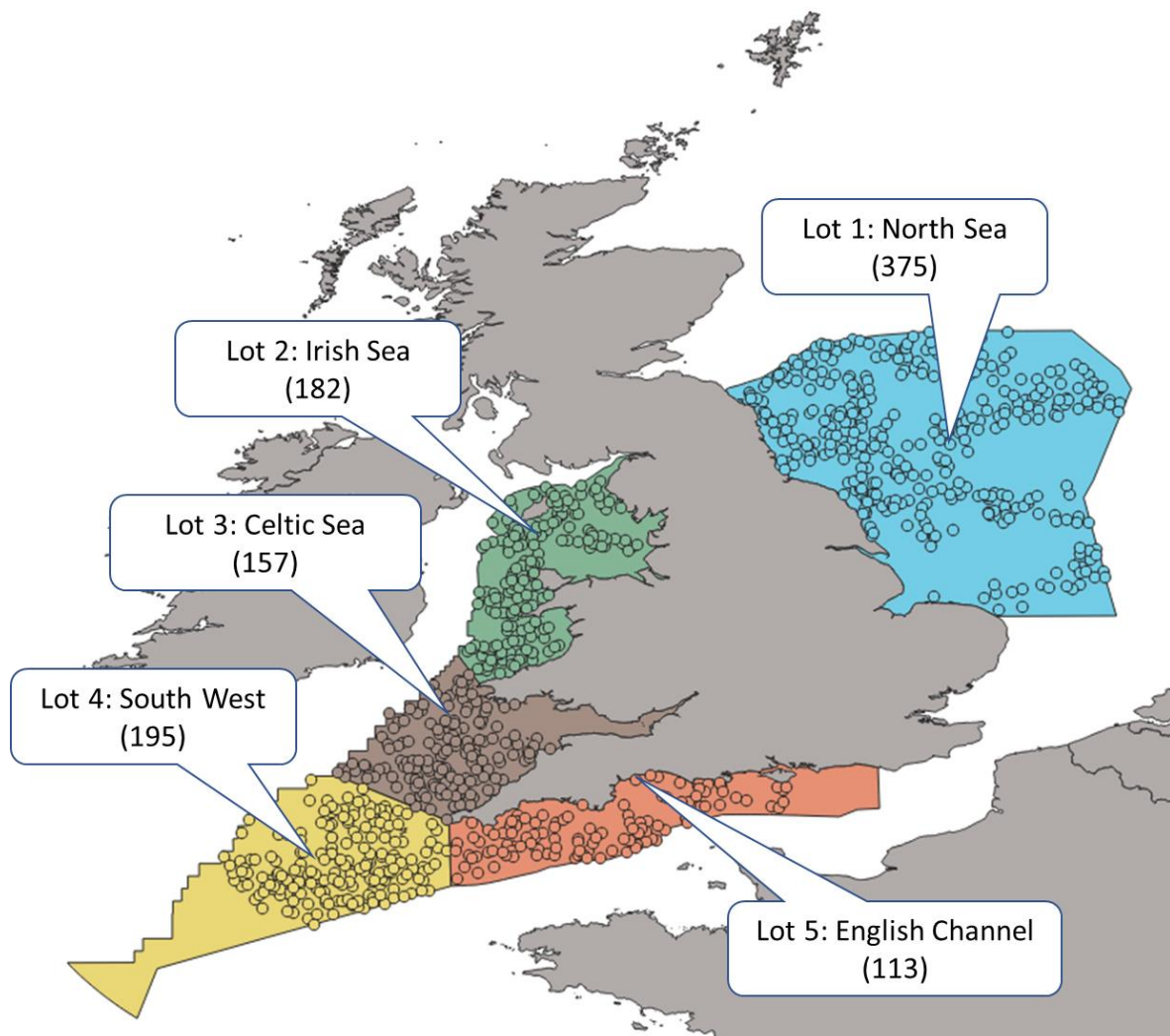


Figure 3. Locations of stations for which macrofaunal and PSA samples are to be collected under POSEIDON. Lots 1 and 2 were sampled during 20-22 while Lots 3, 4 and 5 are to be put out to tender for sampling in 2023.

2. Sample collection

2.1 Gears

2.1.1 0.1m² Hamon grab

The 0.1 m² Hamon grab (Oele, 1978; Eleftheriou and Moore, 2005) is the gear most frequently employed for the collection of sediment samples in coarse sediments. It consists of a rectangular frame forming a stable support for a sampling bucket attached to a pivoted arm (Figure 4). On reaching the seabed, tension in the wire is released allowing the grab arm to pivot freely. Tension in the wire during hauling moves the pivoted arm through a rotation of 90°, driving the sample bucket through the sediment. At the end of its movement, the bucket opening presses onto an inclined rubber-covered steel plate, sealing it completely. The 0.1 m² Hamon grab is robust, simple to operate, and has been shown to be particularly effective on coarse sediments.

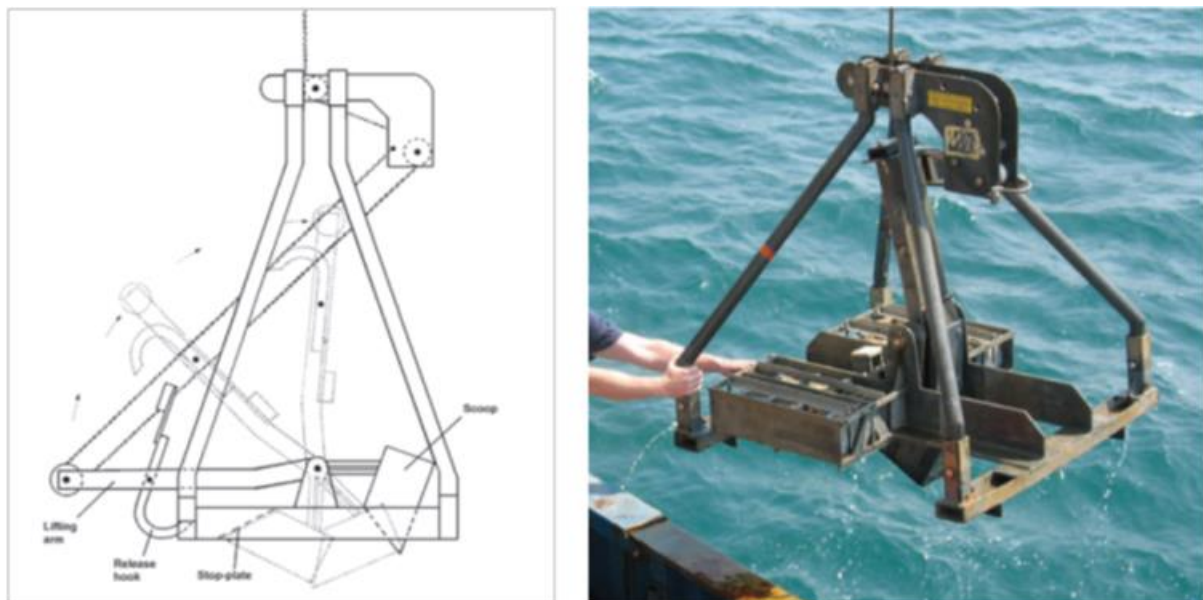


Figure 4. 0.1 m² Hamon grab, showing mode of action (left) and on deck in cocked position (right). Schematic from Eleftheriou and Moore (2005).

2.1.2 Day Grab

The Day grab (Figure 5) evolved from the spring-loaded Smith-McIntyre grab (see Holme and McIntyre, 1984), and represents an attempt to simplify this earlier type of sampling device, without loss of operational efficiency. It incorporates a frame to keep the grab level on the seabed and two trigger plates to activate the release, but there are no springs to force the hinged buckets into the bottom. This device samples an area of 0.1 m², to a maximum depth of 14 cm. The jaws are supported within an open framework, which will cause minimal down-wash as it lands on the seabed. Lead weights are usually added to obtain optimum penetration of the sediment. The grab should not be allowed to bite too deeply into the sediment as this results in the sediment surface making contact with the closing flaps of the sample bucket, which can ultimately lead to loss of material on retrieval and disturbance of the surficial layers. The jaws of the grab and the flaps on top should seal well to ensure no

loss of material when the grab is retrieved. This grab was designed for sampling soft sediments i.e. ranging from sands to muds. It does not function well on coarse sediments due to the tendency of larger particles to prevent closure of the buckets, causing loss of sample and is therefore not well suited for use at aggregate dredging sites. However, where there is a high percentage of soft sediment (sands or muddy sands) associated with a gravelly component, this grab could be used, albeit with the likelihood of a relatively high failure rate.



Figure 5. A Day grab (Cefas © Crown Copyright 2022).

2.1.3 Van Veen Grab

The Van Veen grab sampler consists of a levered clamshell bucket made from stainless steel and is capable of acquiring samples up to 20 cm in depth, with an area of 0.1m². Levers hold the bucket in an open position for deployment. As the grab makes contact with the seabed the levers are unlocked. Recovery pulls the levers together and the buckets close, taking a grab from the seafloor. The Van Veen grab is likely to be less effective in sampling coarser sediments.

2.2 Sampling strategy

Two grab samples will be collected from each station using either a 0.1 m² Hamon grab, a 0.1m² Day grab or a 0.1m² Van Veen grab. Both samples may be acquired from a single deployment of a double version of these devices (e.g. twin Van Veen grab with two 0.1m² buckets). The grab type to adopt at each sampling station will be governed by the physical characteristics (principally particle size distribution) of the seabed sediments. The 0.1 m² Hamon grab is suitable in most sediment types except mud or sandy mud habitats where it is likely to sink too deeply into the sediment for a reliable grab to be taken. The Day grab, however, is suitable for mud and sandy mud habitats. The Van Veen grab can be successful in a variety of bottom types including mud, sand and gravel, although performance is likely to decrease as the proportion of coarse material increases. Under POSEIDON, we have suggested which of two grab types (0.1m² Hamon/0.1m² Day) might be most appropriate based on our understanding of the seabed assemblages and their associated sediments. However, the choice of grab, including a 0.1m² Van Veen, is left to the discretion of the

contractor, so long as valid samples are obtained (see below) The suggested grab types can be found in the accompanying survey arrays (see Appendix 1, 2 and 3). This indicative grab type is for assistance purposes only, we leave the ultimate choice of grab for each station to the discretion of the surveyor. This allows, also, for a dual van Veen grab to be adopted, where appropriate, should the surveyor wish to adopt this gear type.

Sample should be taken as close to the target position as possible, and within 50 m (i.e., 100 m range ring) of the target position (Figure 6). Station positions are available from the *OneBenthic Survey Array Tool*.

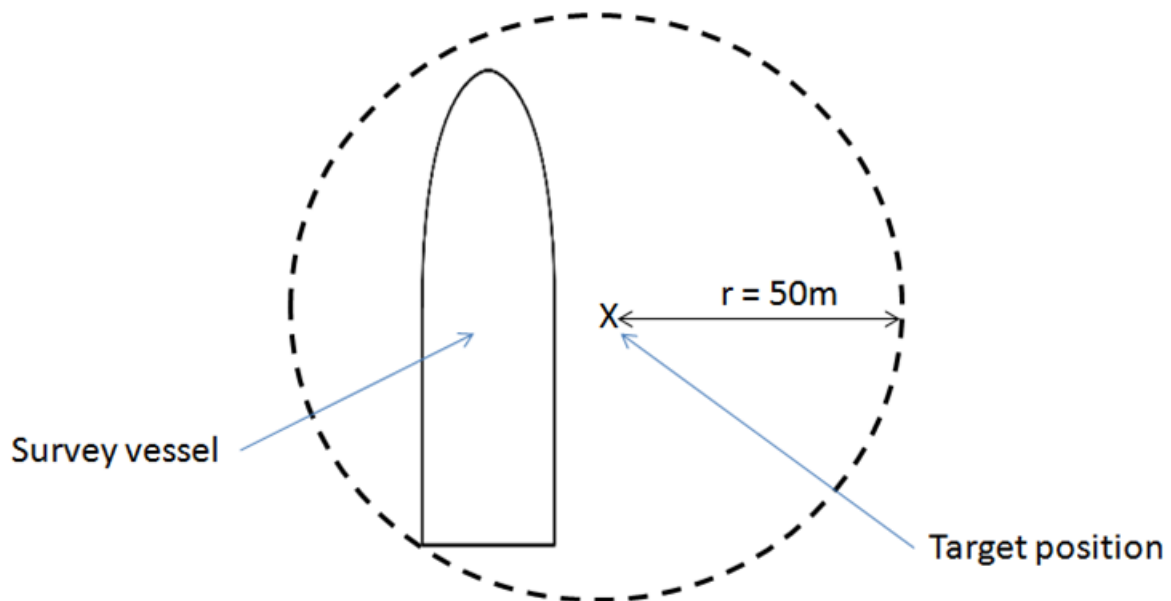


Figure 6. 100 m range ring surrounding the target station position.

At each station, the surveyor must acquire basic imagery data to capture the physical nature of the seabed (e.g., mixed sediment, cobble, hard bedrock, bioturbated mud etc.). This may be captured by attaching a camera to the grab frame: we do not request any video transect approach but simply a point sample frame of the station. This video file, which must be stored and later made available to Cefas, should be analysed and the physical nature of the bed noted in the station logsheet.

Where the grab fails to return an acceptable sample (see below) then a minimum of a further three attempts should be made. If appropriate, it may be necessary to switch to a different grab type. For example, a Hamon grab should not be used in mud or sandy mud where the device is likely to sink into the sediment. In addition, a Day or Van Veen grab should not be used where coarse material prevent the buckets from closing properly, resulting in sample washout. The first sampling attempt can be made at the initial sampling location. Should further attempts be required then the vessel should move to different locations within the 100 m range ring. Note, pooling of small samples must NOT be undertaken.

Where it proves impossible, despite repeated attempts, to obtain an acceptable grab sample from within the range ring, then the vessel is to move to another location in the vicinity and repeat the process of up to four attempts. Should a valid sample be obtained, then this should be labelled with a new *ad-hoc* station code (e.g. POS_L1_0001_NEW): this information should

be captured in the logsheet. However, should this new station fail to provide a valid sample after four attempts, then the site should be abandoned. Information from the video, together with any other reason for unsuccessful grab operation at a station, should be clearly noted on the station logsheet. If still images are obtained, it would be favourable for these to be provided to Cefas as suitably labelled files alongside the survey report.

When a valid macrofaunal and PSA sample has been obtained at a station, the grab is to re-deployed to acquire separate sub-sample for sediment carbon (referred to as 'OCN sample' hereafter) and eDNA. As with the macrofaunal and PSA sample, up to four attempts should be made to collect this additional grab sample. To note, the grab bucket is to be washed with a bleach solution (in fresh water) between stations in accordance with the SOP for eDNA sampling (see Appendix 4). **A decision tree for sampling is shown in Appendix 5.**

2.3 Deployment and recovery of grab

2.3.1 0.1 m² Hamon grab

Once the 0.1 m² Hamon grab has been deployed and is in the water, the winch should be veered at a rate of approximately 1 m s⁻¹. As the grab approaches the seabed this rate should be slowed to avoid the creation of a 'bow wave' which could wash away surface material. On reaching the seabed the winch wire will slacken, providing a signal for the winch operator to stop the winch. The scientist(s) assisting with the deployment should immediately fix the sample position and record it manually on the grab logsheet (Figure 7) along with the time (in GMT) of the sampling event.

MCZ Grab Logsheet (v1)

Station data

Contract Code: C5650 Vessel: CEFAS ENDEAVOUR Date: 12 FEB 2012
 MCZ Name: COMPASS ROSE Station Code: CRO1
 Nav-Log filename: CRO01.TXT Sampling Gear: MHN Water Depth: 50 m
 Notes on Station: Strong tide running x 3kt. Position Reference Point: GPS Aerial.

Sample data: (e.g. 52° 17.53N / 02° 59.99E)

GPS Time(h:mm): 10:05 Fix No: 1721 Lat/Long(WGS84): 55° 17'23" N; 01° 17'56" W/E

Sediment Description: Slightly shelly gravelly sand.

Sediment Depth (Day grab): 5 cm Sediment volume (Hamon grab): 5 litres Sieve mesh 1 mm

Samples Collected: Photograph PSA Macrofauna

Faunal sample			Sediment sample		
Faunal Fraction	Container Volume (Ltrs)	Faunal Container Ref. No	Sample Type	Container Type	Sediment Container Ref. No
> 1mm	<u>10</u>	<u>P000023</u>	<u>PSA</u>	<u>JAR</u>	<u>P000024</u>

Notes on Sample: (e.g. Litter, F.O.C.I.)
Plastic bag. Some coral.

Completed by: A. Coggan Checked by: P. Smith Entered by: J. Dea

Figure 7. Example logsheet showing the details to be completed for all stations.

After a short period (~ 5 s) the winch operator should start raising the grab, initially very slowly to maximize sampling efficiency. When the grab reaches the surface, it should be stabilised (usually by two people), brought aboard in a controlled manner and lowered gently onto the supporting frame (Figure 8).



Figure 8. Deployment and recovery of the 0.1 m² Hamon grab.

Once the grab is rested on the frame, the winch cable is slackened further to allow the lifting arm to be lowered into the horizontal position. This action should result in the sample being released into the plastic box positioned beneath the frame. While the arm is held in the horizontal position, the scoop of the grab should be checked to ensure the entire sample has been released. The grab mechanism is then reset by holding down the grab arm in the horizontal position and gently heaving the winch until the arm catch engages. The grab is then ready for the next deployment.

When the grab has been reset, the sample collection box is removed from beneath the grab and the sample inspected. A description of the sediment type is given and noted on the sample section of the grab logsheet. The description should broadly follow the Folk system of sediment classification (e.g., muddy sand, slightly shelly gravel, slightly shelly, sandy mud) and is best given by an experienced sedimentologist. The Scientist-in-Charge (SIC) or delegated scientist will then decide if the sample is valid. To be valid, a sample must meet two criteria. Firstly, it must be of an acceptable volume, usually >5 L. Smaller samples may be accepted if it proves impossible to obtain a larger sample. Secondly, there must be no indication of a significant malfunction in the grab. If, during sampling, the scoop of the grab fails to engage fully with the stop plate (e.g., as a result of a stone obstructing closure), resulting in the loss of sample material, the entire sample should be discarded and the grab re-deployed. Four valid attempts should be made at each sampling station before it is abandoned (see above). The pooling of failed samples must NOT be undertaken.

If the sample is declared valid, the appropriately labelled sediment pot (containing completed labels for both sediment and benthos samples) is placed into the sample box before it is taken away for processing. When the sample has been moved away from the grab operation area, the scoop of the grab should be washed with sea water and the grab reset for the next deployment.

2.3.2 Day grab

Position the grab and stand beneath the derrick or gantry and attach the wire of the Day grab to the boat's winch using a shackle and swivel. Check that the weights are securely fastened by means of split pins or wing nuts (depending on type of grab) and that the jaws of the grab are sealing properly. Set the Day grab by raising the retaining bar, opening the jaws to their maximum extent and then lowering the retaining bar so that it catches on the teeth of the trigger mechanism, holding the jaws open. Wash the grab thoroughly with the deck hose prior to deployment then place a clean, large plastic box under the grab stand hopper.

When the boat is stationary and the skipper has given permission, the grab is deployed, typically at a rate of approximately 1 m s^{-1} . As the grab approaches the seabed the wire should be released more slowly to avoid the creation of a 'bow wave' which could wash away seabed surface material. Once the Day grab has reached the seabed, slackening of the winch wire provides a signal to stop the winch (at this point the sample position is recorded). Pause for five seconds to allow the jaws of the grab to bite into the sediment under the weight of the grab then raise, slowly at first, to allow complete closure of the jaws and maximize sampling efficiency. When the grab reaches the surface, it should be stabilized and then swung on-

board, as soon as possible, as the swinging device presents a danger on a rolling vessel. The grab is then lowered gently onto the supporting frame. Enough winch cable should be released to enable the jaws of the grab to be opened.

In rough seas, the bow of the vessel should be facing into the sea thus minimizing the roll of the vessel and hence swing of the grab during deployment and recovery. If the grab is deployed from the stern of the vessel, ensure that it is deployed away from the wash of the propeller to avoid raising of the flaps and loss of sediment due to turbulent flow.

If the grab mis-fires during deployment then it must be recovered and set again ready for deployment. If the grab does not fire correctly upon impact with the seabed it can be redeployed without having to recover.

2.3.3 Van Veen grab

Position the grab beneath the derrick or gantry and attach to the boat's winch. Set up the grab for deployment according to operating instructions, noting all safety requirements. Ensure the grab is thoroughly washed with the deck hose prior to deployment.

When the boat is stationary and the skipper has given permission, the grab is deployed, typically at a rate of approximately 1 m s^{-1} . On reaching the seabed (note sample position) the wire will go slack and the pinch pin will pop out. As the grab is recovered (slow and steady), the arms will move upwards, allowing the jaws to close. When the grab reaches the surface, it should be stabilized and then swung on-board as soon as possible. The grab is then lowered into a tub, and the cable can be slackened sufficiently to allow the device to be opened.

In rough seas, the bow of the vessel should be facing into the sea thus minimizing the roll of the vessel and hence swing of the grab during deployment and recovery. If the grab is deployed from the stern of the vessel, ensure that it is deployed away from the wash of the propeller to avoid raising of the flaps and loss of sediment due to turbulent flow.

If the grab mis-fires during deployment then it must be recovered and set again ready for deployment. If the grab does not fire correctly upon impact with the seabed it can be redeployed without having to recover.

2.4 Sample processing

2.4.1 0.1 m² Hamon grab

To process the macrofauna and PSA sample obtained from the 0.1 m² Hamon grab at each station, firstly use a plastic scoop to extract a representative sub-sample of the sediment (for the PSA) by collecting a number of aliquots from the full depth and surface area of the sample. A sub-sample of ~500 ml is considered an appropriate compromise for providing sufficient material for particle size analysis, whilst not removing significant proportions of the biota. For small samples (<5 L) it may be necessary to take less than 500 ml. When collecting the sediment sub-sample, it is important to include some of the sample water as this contains fine suspended particulate matter (the 'fines'). The sediment sample should be stored in a sealable container (e.g., 'Tupperware' box heavy duty plastic bag, or double bagging) which

should be kept upright to avoid spillages. Record the relevant details under the 'sediment sample' section of the sample record on the grab sample logsheet. When describing sediment, the least abundant component should be noted first followed by the next most abundant, and so on. An indication of the amount of that first component (e.g., slightly muddy sand) should also be recorded. The presence of any coarse material which is not represented in the sediment sub-sample (e.g., cobbles) should be recorded. Where present, cobbles must be counted, dimensions checked (i.e. min 64 mm), and preferably weighed. Where weighing is not possible then an estimate should be made of the total cobble volume as a % of the total sample volume. Cobbles should be retained for faunal analysis, except in cases where there are clearly no attached fauna.

The acquired PSA sub-sample may either be immediately frozen or stored in a dark environment to prevent algal growth (and frozen within 24 hr of sampling).

For the processing of the remaining bulk sediment for macrofauna, firstly remove excess water by pouring it over the sieving table (ensuring all sieves are in place) and then place the container back on the deck. Take a photograph of the whole sample whilst it is still in this large container (Figure 9). The photograph should include a large, fully detailed sample label, containing the following information:

- Cruise number or code followed by cruise number/year (e.g., CEnd_01/22)
- Lot number and year (e.g., Lot1 2022)
- Station code (e.g., POS_L1_0001)
- Station number and replicate (where appropriate)
- Sample type (e.g., macrofauna)

This label should be retained for later use.



Figure 9. Photograph of 0.1 m² Hamon grab sample, including meta-data label (Tupperware lid) taken prior to processing.

Image files should be named using the following convention:

LOT NUMBER_YEAR_STATION CODE_STATION NUMBER_REP_IMAGE NUMBER

e.g. LOT1_2022_POS_L1_0001_001_A_001.jpeg

Using a plastic scoop, transfer the sample into a graduated bucket (litres) and record the sediment volume on the grab logsheet. The sample is now ready for sieving (see section 2.5)

From the subsequent 0.1 m² Hamon grab deployment, sub-samples for OCN and eDNA should be obtained. The OCN sample should be sub-sampled from the grab sediments and stored in the same manner as that described for the PSA sample. Samples for eDNA should be obtained following the process outlined ANNEX 3.

2.4.2 Day / Van Veen grab

To process the macrofaunal and PSA sample from the Day/Van Veen grab, first open the flaps of the grab to allow inspection of the sample. Should the jaws of the grab have failed to close properly with the resulting loss of material the contents should be discarded and the grab re-deployed and 'no sample' recorded on the logsheet. If an undisturbed sample is present then measure the depth in the centre of the sample using the purpose-built depth measurer. If the sediment depth is less than 5cm then the contents should be discarded and the grab re-deployed. As is the situation for the 0.1 m² Hamon grab, four attempts should be made at each sampling station before it is abandoned. At the discretion of the Scientist in Charge (SIC) a smaller sample may be accepted if there is some merit in obtaining indicative (e.g. qualitative) information from a location. Once an acceptable sample has been obtained,

record the depth of sediment and the nature of the material on logsheets using the description nomenclature as described earlier for the 0.1 m² Hamon grab. That is, the least abundant sediment component should be noted first followed by the next most abundant, and so on. An indication of the amount of that first component (e.g. slightly muddy sand) should also be recorded. Note, the measured sediment depth in the grab can be converted into volume using a graph like that shown in Figure 10.

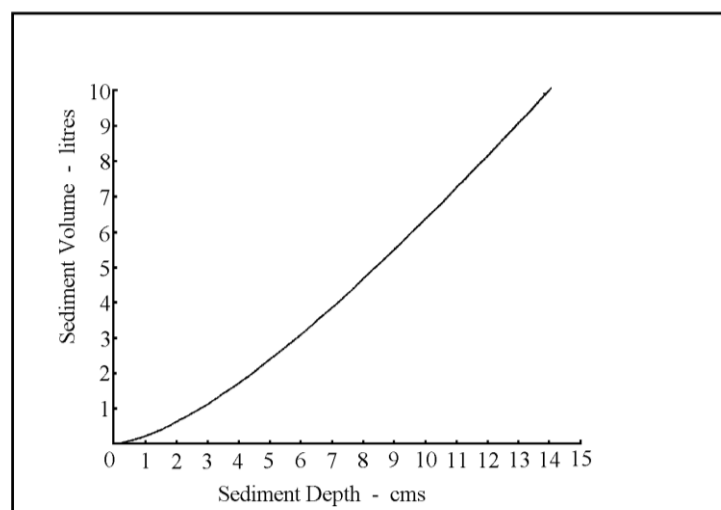


Figure 10. An example of a graphical relationship used to convert sediment depth to sample volume.

Allow any surface water to drain into the receptacle below the sample then remove a sub-sample of sediment (for PSA) from the most undisturbed part of the sample using a 3 cm diameter corer, deployed to a depth of at least 5 cm. Transfer the sub-sample to a sealable plastic bag, which should be placed inside a pre-labelled plastic box. Samples may either be immediately frozen or stored in a dark environment to prevent algal growth and frozen within 24 hr of sampling.

Release the remaining contents of the grab into a plastic box (below the chute of the grab table for a Day grab). Any material remaining in the grab or on the sides of the hopper should be carefully washed into the plastic box. If necessary, remove excess water from the bulk sample by pouring it over the sieving table (ensuring all sieves are in place) and then place the container back on the deck. Take a photograph of the whole sample whilst it is still in this container. As for the procedure for the 0.1 m² Hamon grab, the photograph should include a large, fully detailed sample label. This label should be retained with the sample for later use. The sediment is now ready for sieving.

From the subsequent grab deployment, sub-samples for OCN and eDNA should be obtained. The OCN sample should be sub-sampled from the grab sediments and stored in the same manner as that described for the PSA sample. Samples for eDNA should be obtained following the process outlined ANNEX 3.

2.5 Washing and sieving the sample (for the macrofaunal sample) – all grab types

The aim of the sieving process is to remove as much of the <1 mm material from the bulk sample as possible (and thereby retaining all the >1 mm fraction which constitutes the

macrofaunal sample). A number of methods are generally employed to do this, for both grab types. For a 0.1m² Hamon grab sample, it is preferential to employ a larger 5 mm mesh sieve for initial washing before the material reaches the 1 mm mesh sieve – this is not often conducted for a Day or Van Veen grab sample. Thus, rather than request a specific method to follow, contractors must ensure that the process is always conducted in a manner that neither damages the fauna nor results in any loss (e.g., from spillages or specimens trapped on sieves) of material.

2.6 Preserving and labelling the samples

Each sample (including the PSA and the OCN sub-samples) must be suitably labelled. Labels should be applied both to the outside and inside (not for the OCN sample) of the sample pots/buckets so that any damage to the external label does not prevent the identification of the sample. All labels should contain the following information:

- Cruise number or code followed by cruise number/year (e.g., CEnd_01/22)
- Lot number and year (e.g., Lot1_2022)
- Station code (e.g., POS_L1_0001)
- Station number and replicate letter (where appropriate, e.g., 24A, 134C)
- Sample type (e.g., macrofauna, PSA, OCN)

At the preserving table used for the final stage of the macrofaunal sample processing, bring together all the sieves that have been used and select a suitably sized sample container (Nalgene bottle or plastic bucket), remembering that sufficient space must be left in the container to add the formalin fixative.

Check the internal and external sample labels have the correct Station Number and Replicate letter, written in permanent ink. If necessary, add any other information required on the label.

A wide necked funnel should be used to help transfer the macrofaunal sample into the sample container. If using a Nalgene bottle, set up the bottle and funnel as illustrated in Figure 11. If using a bucket, place the funnel inside the bucket. Transfer the material from the sieve into the funnel and wash into the container. Collect the final remnants from the sieve by back washing it with gentle water pressure, holding the sieve at a 45° angle so the material collects at the base of the rim. This process should be carried out over a large container so that any accidental spillages can be contained and rinsed back onto the sieve. Wash the last pieces of material into the funnel using a wash bottle. Pick out any remaining organisms from the sieve mesh using fine forceps.



Figure 11. Funnel and stand to assist in the transfer of the biological sample into the sample container.

Place the internal sample label in the bottle (or bucket) and take it to a formalin aspirator (on deck) where an appropriate volume of a 10% solution of formaldehyde should be added. The aim is to approximately double the volume of liquid in the sample in order to achieve a final concentration of 4-5% formaldehyde. Ensure the sediment and fauna are covered by the formaldehyde solution.

Place the lid on top on the sample and dry the outside of the container where the external label will be applied. For buckets, stick the label flat onto the bucket lid. For bottles, stick the label onto the outside of the bottle.

Once labelled, record the required information under the 'faunal sample' section of the sample record on the grab logsheet, giving details of the sample fraction (>1 mm) and the size of sample container (0.25, 0.5, 1.0, 2.5, 5, 10 L). Finally, place the sample in a suitable weather-proof crate for storage/transportation (Figure 12).

It is important to ensure that all fields in the logsheet are fully completed before proceeding to process the next sample.

Labelling requirements for the eDNA samples are set out in ANNEX 3.



Figure 12. Storage crates for bottles and buckets.

3. Laboratory processing

3.1 Faunal analysis (macrofaunal sample)

Elutriation, extraction, identification, enumeration and biomassing should be carried out following the NMBAQC Processing Requirement Protocol (PRP), (Worsfold, T.M., Hall, D.J. & O'Reilly, M. (Ed.) 2010). This document can be accessed here: <http://www.nmbaqcs.org/media/1175/nmbaqc-inv-prp-v10-june2010.pdf>. Note the following:

Biomass should be recorded as grams wet weight by taxon (i.e., lowest level of taxonomic resolution).

A reference collection containing at least one individual of each species/taxon should be generated. Identifications should be checked with the laboratories own reference material to ensure faunal identifications are correct. All reference material must be retained for external quality control (see below).

On completion of the work (i.e. after completion of external QC and, if necessary, any remedial action), all faunal specimens from each sample should be transferred to a single container, and a preservative solution of 70% ethanol/IMS applied. These samples are to be stored by the contractor for a period of six months. During this period, Cefas may request the material and will organise courier transport.

3.3.1 Quality Assurance

Internal

The laboratory must have in place their own in-house quality control (QC) procedures to assure the quality of the resulting data. Measures may include the re-analysis of 10% of the samples processed, including a resort of the sample residues. In addition, it may also be useful to check the identity of each taxon in the reference collection (see below).

External

In addition to the 'in-house' QC measures described above, sample processing will be subject to external quality control checks by an independent, competent benthic laboratory participant in the NMBAQC scheme (<http://www.nmbaqcs.org/>). The process will work as follows: On completion of sample processing, the processing lab will email their benthic dataset to Cefas (keith.cooper@cefas.co.uk) for selection of 5 samples for auditing purposes. The sample processing lab will then send the sediment residues and extracted fauna (with separate vials for each taxon) from each of the 5 selected samples to the QA lab for processing. The results of the QA checks will be assessed according to the NMBAQC Scheme 'Own Sample' criteria (see <http://www.nmbaqcs.org/scheme-components/invertebrates.aspx>), with any suggested remedial action highlighted by the QA lab as necessary. Whether remedial action is undertaken, and what form it should take, will be determined by the customer (Cefas), with input from the processing lab and QA lab (the aim here will be to find a consensus on the way forward). Any remedial actions which are deemed necessary will be undertaken at the contractor's own expense, and may involve work

on the entire sample batch, not just the checked samples in question. The success of remedial action will be checked with further 'Own Sample' checks, focussing on the relevant samples and issues at hand.

Sample material (sediment residues and fauna) from all samples (entire batch) must be stored until confirmation that agreed remedial actions have been completed to the satisfaction of the customer. If necessary, own sample checks can be completed on 1/5 batches of samples, with one sample selected for each batch. This will allow the lab to dispose of sample residues at the earliest opportunity.

In addition to the above sample checks, the processing lab will be required to submit their completed benthic reference collection for checking by the QA lab. On completion of the reference collection identification checks, the QA lab will send their results back to the originator. Labs should work together to resolve any taxonomic discrepancies in the identifications before finalising the species/sample matrix. The results of external QA should be reported alongside the final benthic dataset.

All emails concerning the above external QA checks should be cc'd to Cefas (keith.cooper@cefas.co.uk).

3.2 PSA, OCN and eDNA sub-samples

Frozen sediment sub-samples should have been acquired during survey at each station, for PSA, OCN and eDNA (x3). The OCN and eDNA sub-samples are not to be processed under POSEIDON but retained frozen in storage for a period of up to six months following sampling. This also applies to macrofaunal and sediment particle size samples from the Cape Bank MCZ which will be processed by Cefas. During this period, it is the aim that Cefas will arrange for courier transport of these samples. If no such collection has been undertaken within six months then the contractor may dispose of the OCN and eDNA samples.

The contractor will be, however, responsible for the processing of the remaining PSA sub-sample. The PSA laboratory sample processing methodology should follow the NMBAQC PSA methodology (Mason, 2016), which is a combination of sieving and laser sizing. A copy of this document is available here: https://www.nmbaqcs.org/media/ibzlxdej/psa-guidance_update2022.pdf. The sub-contractor is requested to obtain this procedural document and follow the full procedures stated therein.

3.2.1 Quality Assurance

Internal

A laboratory must have in place their own in-house quality control (QC) procedures to assure the quality of the resulting data. Evidence of quality control procedures, such as laboratory SOPs, quality control charts, and use of certified and/or in-house generated reference materials must be provided alongside PSA results presented in the PSA results template.

External

In addition to the 'in-house' QC measures described above, sample processing will be subject to external quality assurance (QA) checks by an independent, competent particle size analysis laboratory participant in the NMBAQC scheme (<http://www.nmbaqcs.org/>). This QA lab will be appointed by the POSEIDON processing lab. The process will work as follows: On completion of the PSA sample processing, a copy of the completed PSA results template workbook should be sent to Cefas (claire.mason@cefas.co.uk). Cefas will then randomly select five samples for QA. The processing laboratory will then send any sample material (see below) from each of the selected QA samples to the QA lab for reprocessing. On completion of the reprocessing of the five samples, the QA lab will email the results and comment on any issues that may need addressing. This may include analysis of whole sample if subsampling has taken place. Cefas will compare the original results with the AQC results. Cefas, with the QA lab and POSEIDON processing lab will need to work together to identify any discrepancies and define any required remedial action, which may be required on the entire sample batch. Remedial actions will be undertaken at the contractor's own expense.

Cefas will then confirm the data and associated AQC are acceptable. All sample material must be stored until confirmation that results have passed quality assurance checks.

Samples sent to the QA lab for an 'own sample' check should comprise of the laser subsample (wet); the sediment sieved (>1mm), and the dried weighed sediment (<1 mm). All the material should be double bagged separately and appropriately labelled.

All emails concerning the above external QA checks should be copied to Cefas (claire.mason@cefas.co.uk).

4 Reporting (macrofauna and PSA)

A number of deliverables to Cefas will be required at various stages through the contract, these are detailed below.

- Final plan of action (or PoA). This document states the planned survey dates, the intended survey vessels to be used, and any other relevant information the contractor deems necessary. This document is to be submitted two weeks prior to the commencement of survey work. Evidence that all necessary licences and permissions to undertake the survey work have been obtained must be provided in this PoA. Cefas will consult with the contractor if Cefas believe that the plan is not within scope or within contractual agreements.
- During all survey work, a daily progress report (or DPR) will be sent to Cefas at the end of each survey day. This will briefly provide a summary of the day's activities in terms of progress (e.g., number of stations successfully sampled) and outline any issues that may have arisen.
- The contractor is to maintain regular (weekly) short meetings with Cefas during the survey period to discuss the week's DPRs, planned sampling or to discuss any other sampling and non-sampling related issues.
- A survey report is to be sent to Cefas within one month following the end of each (if more than one survey) survey. This report will provide a summary of all sampling, samples acquired, and provide a table giving details of all grab deployments. The table must include columns for actual positions sampled for each station, time and date of sampling, gear used, grab volume, broad sediment type etc. Analysis of the data is not required.
- Macrofaunal and sediment particle size data should be reported using the MEDIN workbook for grab or core data (see '[MEDIN data guideline for data by grab or core \(Jun 19\)](https://medin.org.uk/data-standards/medin-data-guidelines)' available from <https://medin.org.uk/data-standards/medin-data-guidelines>). In addition, the contractor should also provide the AQC workbook for PSA. This Excel file is based on the existing RSMP PSA workbook (a copy of which can be accessed via https://rconnect.cefas.co.uk/onebenthic_surveyarray/), but which is designed for use with the NMBAQC PSA method. A brief QC report should be produced with details of the QC process and results.
- As detailed above, the contractor is to keep the organic carbon and eDNA sediment sub-samples frozen for a period of up to six months following survey. If Cefas has not

organized courier collection of these samples within this period, the contractor is to dispose of them.

- As detailed above, the contractor is to retain macrofaunal specimens (one pot per sample), in a 70% ethanol/IMS, for a period of up to six months following survey. If Cefas has not organized courier collection of these samples within this period, the contractor is to dispose of them.
- All grab sample image files (see earlier methods) are to be supplied to Cefas in a common image file format.

5 References

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Eleftheriou, A. and Moore, D.C., 2005. Macrofauna techniques. In: Eleftheriou, A. and McIntyre A.D. (eds.), 2005. *Methods for the Study of Marine Benthos*, 3rd edn, pp. 160- 228. Blackwell, Oxford. 418 pp.

Mason, C. 2016. NMBAQC's Best Practice Guidance. Particle Size Analysis (PSA) for Supporting Biological Analysis. National Marine Biological AQC Coordinating Committee, 77pp, First published in 2011, updated January 2016.

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Worsfold, T.M., Hall, D.J. & O'Reilly, M. (Ed.). 2010. Guidelines for processing marine macrobenthic invertebrate samples: a Processing Requirements Protocol: Version 1.0, June 2010. Unicomarine Report to the NMBAQC Committee. 33pp.

APPENDIX 1(A) – Lot 3 Celtic Sea Array

The table below provides the full station array for Lot 3 (Celtic Sea). Of the 302 stations listed, only 157 will require sampling. These 157 provisional stations are identified as 'TRUE' in the 'Active' column of the table (the back-up stations are labelled as 'FALSE'). Contractors should submit the full array (302 stations) to the Crown Estate for purposes of a Conflict Check. The results of this exercise must be shared with Cefas, with the contractor clearing identifying which stations can and cannot be sampled. Cefas will then issue the contractor with a definitive list of 157 target stations. Further information on the predicted biotope type for each station (i.e. mean richness and abundance, characterising taxa) can be found using the OneBenthic Layers tool (https://rconnect.cefas.co.uk/onebenthic_layers/). Select 'Structure' from the 'Category' drop down and view the 'Characteristics' tab.

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 3 Celtic Sea	POS_L3_0008	-5.448878	51.023882	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0009	-6.411425	50.525573	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0012	-5.815309	50.497931	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0014	-5.905041	50.516077	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0017	-5.733368	50.417919	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0019	-6.234078	50.359324	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0022	-5.667777	51.202173	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0023	-5.625879	51.125752	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0027	-6.106826	50.582728	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0030	-5.489329	50.644352	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0033	-5.286836	50.719188	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0035	-5.126649	51.159041	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0036	-5.349455	50.759218	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0037	-5.741003	51.017183	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0040	-6.160828	50.621725	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0041	-6.162201	50.517457	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0045	-4.94605	51.108786	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0046	-5.526901	50.493961	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0047	-5.58665	50.614894	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0048	-5.061406	50.909106	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0050	-5.726538	51.169756	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0053	-5.490685	50.969652	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0054	-6.165176	50.258946	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0055	-5.399661	50.854014	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 3 Celtic Sea	POS_L3_0059	-5.250828	50.652845	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0060	-5.315519	51.141618	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0061	-5.820855	50.419573	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0062	-6.198523	50.865157	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0063	-5.80961	50.745101	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0064	-5.426643	50.413903	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0065	-5.850679	50.795867	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0066	-5.431043	50.60264	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0067	-5.755766	50.573541	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0068	-5.357262	50.896749	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0070	-6.703889	50.65733	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0072	-5.616288	50.398087	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0073	-5.242165	51.132614	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0074	-5.350936	50.619991	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0075	-5.684569	50.646673	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0076	-6.026512	50.374718	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0077	-7.097134	50.663296	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0079	-5.029832	50.856595	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0081	-5.950574	50.220982	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0086	-6.995123	50.835167	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0087	-6.387196	51.074779	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0088	-6.048362	51.625307	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0089	-6.314756	51.395976	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0090	-6.395403	51.389884	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0092	-7.193298	50.705439	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0094	-6.125821	51.501722	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0095	-6.835964	50.812215	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0098	-6.613636	51.181422	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0100	-6.452848	51.308734	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0102	-5.997731	50.867016	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0103	-5.877139	51.753324	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0104	-6.798446	50.63339	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0106	-6.505406	51.034009	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0110	-6.122771	50.875628	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0112	-6.227396	51.564823	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0113	-6.258125	50.770199	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0116	-6.526802	51.092646	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 3 Celtic Sea	POS_L3_0117	-5.983562	51.118058	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0118	-5.976083	51.827703	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0122	-5.277275	50.871765	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0125	-5.789949	50.974131	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0126	-5.404334	50.937976	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0127	-6.968282	50.739362	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0128	-5.186792	50.756525	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0132	-5.491552	51.531526	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0133	-5.639657	51.357338	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0134	-5.715169	51.595803	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0138	-4.667149	50.993313	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0139	-5.640257	51.409111	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0147	-5.918363	51.873095	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0148	-6.280953	50.860792	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0149	-5.755207	51.695981	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0150	-6.35438	50.873902	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0151	-6.152215	50.775652	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0152	-5.872864	51.024076	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0153	-6.317389	50.797106	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0154	-6.644748	50.763915	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0155	-5.98929	50.779968	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0165	-5.3581	51.004641	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0166	-6.182819	50.778925	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0170	-4.845853	50.952057	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0171	-7.055565	50.731884	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0172	-5.834206	50.69006	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0173	-5.754885	50.772961	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0174	-6.103508	50.519692	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0175	-4.803315	51.084378	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0177	-5.291381	51.368619	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0180	-5.457246	51.581329	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0185	-5.229427	51.531532	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0186	-5.648622	50.261759	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0187	-5.569371	50.280029	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0188	-5.424121	50.278619	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 3 Celtic Sea	POS_L3_0192	-4.841221	51.617653	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0195	-5.537069	51.795428	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0196	-5.550863	51.913479	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0198	-4.352056	51.031646	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0199	-5.652567	50.264544	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0200	-4.583257	51.073193	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0202	-5.858986	51.282927	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0203	-4.638546	50.919777	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0204	-5.353422	51.668296	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0205	-5.306982	51.378101	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0206	-4.838866	51.201697	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0207	-5.463436	51.955581	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0208	-5.44436	52.020366	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0210	-6.099161	50.393974	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0212	-5.698573	51.740476	Predicted biotope: LOW_A2b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0213	-5.519017	51.69126	Predicted biotope: LOW_A1; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0214	-5.956769	51.359932	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0215	-6.080359	51.546678	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0217	-6.339979	51.1132	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0219	-6.241751	50.644016	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0220	-5.373049	50.942723	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0221	-5.436702	51.026852	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0222	-5.632801	51.266893	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0223	-4.548884	51.173205	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0225	-6.06541	50.446798	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0227	-5.732163	50.08606	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0229	-5.643247	51.156787	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0231	-6.213528	50.68778	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0232	-5.534223	51.31081	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0233	-6.822859	50.792942	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0234	-6.501562	51.496228	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 3 Celtic Sea	POS_L3_0237	-5.694693	50.695477	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0239	-5.76522	51.249353	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0240	-5.973735	50.739026	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0241	-5.096018	50.632174	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0242	-6.572183	50.767758	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0243	-5.454022	50.342843	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0244	-5.069228	51.327016	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0245	-6.476626	50.657737	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0247	-5.198664	50.469517	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0248	-5.382879	50.378846	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0249	-5.471002	51.119996	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0251	-5.816902	50.939973	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0252	-5.567568	50.443787	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0253	-5.835608	51.229875	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0254	-5.265234	51.425467	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0255	-6.145158	50.664097	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0258	-6.789047	50.673059	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0259	-5.626458	51.061696	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0270	-4.998149	50.621693	Predicted biotope: LOW_C1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0271	-5.593343	51.939431	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0272	-5.613285	51.816844	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0273	-5.525809	51.860736	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0276	-4.698197	50.873042	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0277	-5.912039	50.565578	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0280	-5.753014	51.395265	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0281	-4.974666	51.572648	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0286	-5.407224	51.759764	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0289	-4.629039	50.965025	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0292	-5.215533	51.587639	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 3 Celtic Sea	POS_L3_0299	-6.253868	51.12048	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 3 Celtic Sea	POS_L3_0001	-5.036257	50.956135	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0002	-6.285506	50.595499	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE

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Lot 3 Celtic Sea	POS_L3_0003	-5.060333	51.028187	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0004	-6.960139	50.666641	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0005	-5.353494	50.819669	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0006	-5.636938	50.773988	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0007	-5.660112	50.971759	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0010	-5.112685	50.742291	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0011	-5.697981	50.888987	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0013	-5.680837	50.555071	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0015	-5.623873	50.691528	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0016	-6.576112	50.624092	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0018	-5.387759	50.70615	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0020	-6.672732	51.247782	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0021	-6.487042	50.60596	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0024	-5.213942	51.182232	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0025	-5.584471	50.912934	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0026	-6.059165	50.649787	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0028	-6.395016	50.455117	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0029	-5.243097	50.809724	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0031	-6.143057	50.449016	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0032	-5.460838	50.46619	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0034	-5.067766	51.096471	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0038	-5.133958	51.079646	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0039	-5.178045	50.589962	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0042	-6.238541	50.452271	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0043	-5.089244	50.791575	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0044	-5.395149	50.563742	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0049	-6.087449	50.336566	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0051	-5.296853	50.547306	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0052	-5.496433	50.398179	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 3 Celtic Sea	POS_L3_0056	-5.681211	50.472551	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0057	-5.122784	50.999327	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0058	-5.573936	50.975132	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0069	-5.730593	50.518011	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0071	-4.929533	50.976037	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0078	-6.242824	50.311943	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0080	-5.449868	50.514875	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0082	-6.735434	50.759648	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0083	-6.057812	51.383456	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0084	-6.726005	50.622472	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0085	-6.163612	51.035293	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0091	-5.982484	51.754792	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0093	-6.129327	51.262094	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0096	-6.528726	51.359458	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0097	-6.926976	50.956262	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0099	-7.173574	50.803432	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0101	-6.040987	51.324174	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0105	-6.068275	51.208182	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0107	-6.080831	51.800566	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0108	-5.952974	51.668017	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0109	-6.119652	51.633778	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0111	-6.581185	50.707516	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0114	-6.279442	50.943278	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0115	-6.616031	51.098585	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0119	-6.363946	51.271333	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0120	-6.976912	50.758096	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0121	-5.851324	50.561841	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0123	-5.185748	50.709452	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0124	-5.632097	50.517229	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0129	-5.515229	51.608838	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0130	-5.542514	51.659039	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0131	-4.646412	51.119105	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0135	-4.789392	51.093134	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0136	-4.718733	50.926466	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0137	-5.748719	51.355281	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 3 Celtic Sea	POS_L3_0140	-4.780942	50.978852	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0141	-5.861094	51.336038	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0142	-4.455941	51.068307	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0143	-6.895903	50.944366	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0144	-5.459077	51.808457	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0145	-6.234526	50.785968	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0146	-6.486322	51.470981	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0156	-5.786859	51.6186	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0157	-6.208535	51.267471	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0158	-5.879649	51.314909	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0159	-5.88234	50.963353	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0160	-5.791856	51.173766	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0161	-5.569004	50.936126	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0162	-5.17911	51.410558	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0163	-5.103131	51.193402	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0164	-5.619338	51.00675	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0167	-5.141654	51.354647	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0168	-5.39464	51.270647	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0169	-5.835867	50.85745	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0176	-5.531741	51.500964	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0178	-6.636659	50.725817	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0179	-5.628445	50.303528	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0181	-5.241246	51.050157	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0182	-5.797785	50.651758	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0183	-5.724995	50.686538	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0184	-5.233358	50.375431	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0189	-5.366683	51.61091	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0190	-5.266617	51.47084	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0191	-5.327015	50.321504	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0193	-5.660824	51.63321	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0194	-5.575297	51.470067	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0197	-5.037149	51.198757	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0201	-5.620105	51.712342	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 3 Celtic Sea	POS_L3_0209	-5.149943	51.547257	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0211	-5.840291	50.643277	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0216	-7.139088	50.77714	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0218	-6.281301	51.538407	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0224	-5.333842	51.476908	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0226	-6.963205	50.698162	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0228	-5.539226	51.096272	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0230	-5.558822	51.430103	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0235	-5.926157	50.648046	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0236	-5.50824	51.253444	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0238	-5.582015	51.204304	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0246	-5.146828	51.297804	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0250	-4.788509	50.741082	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0256	-5.67608	51.227143	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0257	-5.216493	50.561911	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0260	-5.470691	51.213392	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0261	-5.441737	51.350778	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0262	-5.28589	51.280028	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0263	-5.200903	51.26319	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0264	-5.487318	51.457274	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0265	-5.858241	51.111327	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0266	-5.356133	51.208381	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0267	-4.927887	50.758098	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0268	-5.743558	51.044421	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0269	-5.405824	51.453164	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0274	-5.603668	51.866979	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0275	-5.643872	51.764827	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0278	-5.392114	51.856965	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Dropped to reduce overall effort.	FALSE
Lot 3 Celtic Sea	POS_L3_0279	-3.423193	51.22807	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Dropped due to isolated location.	FALSE
Lot 3 Celtic Sea	POS_L3_0282	-4.051494	51.266969	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Dropped due to isolated location.	FALSE
Lot 3 Celtic Sea	POS_L3_0283	-3.862708	51.296542	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 3 Celtic Sea	POS_L3_0284	-3.494081	51.316158	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Dropped due to isolated location.	FALSE
Lot 3 Celtic Sea	POS_L3_0285	-3.477259	51.264434	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0287	-3.17076	51.383696	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0288	-5.686504	51.428797	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0290	-4.398361	51.024164	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0291	-3.415145	51.342401	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Dropped due to isolated location.	FALSE
Lot 3 Celtic Sea	POS_L3_0293	-4.719928	50.970031	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0294	-3.709297	51.255269	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0295	-5.046204	51.583589	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 3 Celtic Sea	POS_L3_0296	-4.511023	51.044787	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0297	-6.266612	51.041006	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 3 Celtic Sea	POS_L3_0298	-6.538474	51.1964	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0300	-5.927715	51.325767	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0301	-6.395056	50.965075	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 3 Celtic Sea	POS_L3_0302	-6.426563	51.010623	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE

APPENDIX 1(B) - Cape Bank MCZ Array

The table below provides the full station array for Cape Bank MCZ (to be sampled as part of Lot 3). All samples should be acquired using a 0.1m² Hamon grab and processed in the same way as detailed in the POSEIDON protocols document. Note that each sample must be processed on board for sediment particle size (as a subsample) and macrofauna (i.e. additional grab deployments for carbon and eDNA samples are NOT required). Of the 18 stations listed, 12 require a single replicate and 6 require 3 replicates. Note that collected sampled from this site will be returned to Cefas for laboratory processing. All replicates must be collected within the 100m range ring.

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Gear	No. of Replicates	Active
Cape Bank MCZ	CPBK001	-6.077775	50.26096	0.1m ² Hamon grab	3	TRUE
Cape Bank MCZ	CPBK002	-5.998285	50.29176	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK003	-5.974546	50.27565	0.1m ² Hamon grab	3	TRUE
Cape Bank MCZ	CPBK004	-6.083536	50.20286	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK005	-5.973358	50.17622	0.1m ² Hamon grab	3	TRUE
Cape Bank MCZ	CPBK006	-6.003901	50.15226	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK007	-5.979904	50.1361	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK008	-5.899548	50.10756	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK009	-5.888862	50.12883	0.1m ² Hamon grab	3	TRUE
Cape Bank MCZ	CPBK010	-5.871626	50.29039	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK011	-5.807117	50.24002	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK012	-5.834575	50.1735	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK013	-5.811818	50.16835	0.1m ² Hamon grab	3	TRUE
Cape Bank MCZ	CPBK014	-5.831117	50.11699	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK015	-5.796881	50.15071	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK016	-5.81605	50.16516	0.1m ² Hamon grab	1	TRUE

Cape Bank MCZ	CPBK017	-5.726831	50.32943	0.1m ² Hamon grab	1	TRUE
Cape Bank MCZ	CPBK018	-5.787587	50.31216	0.1m ² Hamon grab	3	TRUE

APPENDIX 2 – Lot 4 South West Array

The table below provides the full station array for Lot 4 (South West). Of the 398 stations listed, only 195 will require sampling. These 195 provisional stations are identified as 'TRUE' in the 'Active' column of the table (the back-up stations are labelled as 'FALSE'). Contractors should submit the full array (398 stations) to the Crown Estate for purposes of a Conflict Check. The results of this exercise must be shared with Cefas, with the contractor clearing identifying which stations can and cannot be sampled. Cefas will then issue the contractor with a definitive list of 195 target stations. Further information on the predicted biotope type for each station (i.e. mean richness and abundance, characterising taxa) can be found using the OneBenthic Layers tool (https://rconnect.cefas.co.uk/onebenthic_layers/). Select 'Structure' from the 'Category' drop down and view the 'Characteristics' tab.

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 4 South West	POS_L4_0120	-6.63465	49.43454	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0121	-6.48455	49.90804	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0123	-6.51134	49.32647	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0124	-6.43764	49.24651	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0125	-7.618	50.2273	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0126	-6.08799	49.46546	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0127	-6.23236	50.02702	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0128	-6.50977	49.11767	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0130	-7.44168	49.11482	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0131	-6.07409	50.04329	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0132	-6.9295	48.87019	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0133	-6.49149	48.97997	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0134	-8.24177	49.08362	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0135	-6.32712	49.43911	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0136	-5.83976	49.89043	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0137	-6.50767	49.21025	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0138	-6.19995	49.31489	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0139	-8.10331	49.21582	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0140	-5.88683	49.37063	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0141	-6.39874	50.03255	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0142	-6.00063	49.3849	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0143	-6.44155	49.43052	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0144	-7.314	48.95664	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 4 South West	POS_L4_0145	-6.68599	50.12355	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0146	-6.12128	49.30154	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0147	-7.44316	50.33084	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0148	-6.34711	49.50793	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0149	-7.06858	48.94735	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0150	-5.79223	50.05755	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0151	-6.92494	48.92235	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0152	-8.4105	49.21329	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0153	-6.64433	49.76147	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0154	-6.6041	49.0289	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0155	-5.82137	49.44539	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0156	-6.06993	49.13304	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0157	-6.63726	49.07743	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0158	-6.5087	49.25844	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0159	-7.81745	50.16698	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0160	-5.7417	49.96809	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0161	-6.37907	50.1315	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0162	-6.42426	49.7828	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0163	-7.86261	50.21632	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0164	-6.62743	49.86717	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0165	-5.94186	50.02695	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0166	-8.16142	49.17304	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0167	-6.50843	50.01169	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0168	-5.97153	49.43305	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0169	-6.56988	49.84093	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0170	-6.37384	49.11154	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0171	-6.23252	49.16379	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0172	-6.63965	49.37186	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0173	-8.60562	49.38092	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0174	-6.26699	49.36366	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 4 South West	POS_L4_0175	-6.63288	50.05235	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0176	-6.57781	50.12935	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0177	-7.35743	48.86529	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0178	-7.35008	49.02114	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0179	-6.26761	50.16312	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0180	-7.48168	49.16309	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0181	-6.21306	49.80991	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0182	-6.50995	49.40237	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0183	-5.90152	49.49604	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0184	-6.9392	49.21043	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0185	-7.93196	50.15199	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0186	-7.34476	48.79723	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0187	-6.46117	49.68869	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0188	-5.96848	49.1301	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0189	-5.77963	49.5599	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0190	-6.19603	49.42416	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0191	-6.78325	49.42126	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0192	-8.0391	49.19964	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0193	-6.37161	49.82217	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0194	-7.96472	49.15557	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0195	-6.11908	49.09665	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0196	-6.44599	49.15409	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0197	-7.32901	50.34405	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0198	-6.21651	49.09353	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0199	-5.89249	49.30044	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0200	-6.31474	49.06922	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0201	-6.39338	50.19781	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0202	-6.26392	49.49892	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0203	-6.32835	49.3045	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0204	-6.21761	49.55676	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0205	-8.19121	49.11931	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 4 South West	POS_L4_0206	-6.67077	49.15938	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0207	-7.56545	50.34105	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0208	-6.64213	49.98561	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0209	-6.61235	49.49366	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0210	-7.78712	49.17231	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0211	-7.60412	49.44061	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0212	-8.23278	49.74208	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0213	-7.04335	50.04516	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0214	-7.70223	50.16384	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0215	-7.78276	49.48114	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0216	-7.98603	49.37516	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0217	-8.40814	49.65758	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0218	-7.22896	50.22025	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0219	-7.41624	50.04735	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0220	-7.15631	49.55689	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0221	-7.48733	49.36388	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0222	-8.09375	49.58828	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0223	-7.34921	49.40079	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0224	-6.83251	49.47864	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0225	-6.86499	50.49734	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0226	-7.95481	49.32549	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0227	-6.77408	49.77184	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0228	-7.55297	49.23908	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0229	-7.69739	49.41692	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0230	-6.80708	50.12644	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0231	-7.53371	49.32958	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0232	-8.1954	50.08246	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0233	-7.284	50.25826	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0234	-7.12046	50.12569	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0235	-8.21726	49.38035	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE

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Lot 4 South West	POS_L4_0236	-7.37343	49.54456	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0237	-8.37409	50.08617	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0238	-6.93273	50.31392	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0239	-8.02034	49.70754	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0240	-7.45334	49.60737	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0241	-7.55998	50.61012	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0242	-7.39091	49.46513	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0243	-7.96757	49.93949	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0244	-6.7671	50.16964	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0245	-6.95043	49.8384	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0246	-7.38206	50.20604	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0247	-7.68797	49.33788	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0248	-7.56043	49.38613	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0249	-7.2144	49.42707	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0250	-6.89624	49.42875	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0251	-7.86858	49.89641	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0252	-7.94127	50.07719	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0253	-6.74675	49.83821	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0254	-7.6469	49.65047	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0255	-6.70307	49.27406	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0256	-6.84514	49.70904	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0257	-8.30114	49.5606	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0258	-7.37764	49.30266	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0259	-8.07197	50.11499	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0260	-7.75957	49.5921	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0261	-7.53586	49.52803	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0262	-6.90577	50.02394	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0263	-7.08033	49.77236	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0264	-6.81397	50.02996	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0534 for BH3;	FALSE
Lot 4 South West	POS_L4_0265	-7.21509	49.49886	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0266	-7.52446	50.15563	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE

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Lot 4 South West	POS_L4_0267	-7.07169	49.62963	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0535 for BH3;	FALSE
Lot 4 South West	POS_L4_0268	-7.23254	49.34432	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0269	-7.32513	49.35687	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0537 for BH3;	FALSE
Lot 4 South West	POS_L4_0270	-8.03031	49.41609	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0271	-6.99963	49.56558	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0272	-7.67228	49.27331	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0273	-8.52539	49.83403	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0538 for BH3;	FALSE
Lot 4 South West	POS_L4_0274	-7.11139	50.00687	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0540 for BH3;	FALSE
Lot 4 South West	POS_L4_0275	-8.22623	49.03014	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0276	-6.33003	49.78019	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0277	-6.45159	49.03653	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0278	-6.48238	49.54353	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0280	-7.15027	48.99685	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0281	-7.13212	49.21442	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0282	-6.6829	49.49333	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0283	-5.88513	49.94121	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0284	-6.73298	49.19091	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0523 for BH3;	FALSE
Lot 4 South West	POS_L4_0285	-5.99355	49.33108	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0524 for BH3;	FALSE
Lot 4 South West	POS_L4_0286	-8.13793	48.96108	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0525 for BH3;	FALSE
Lot 4 South West	POS_L4_0287	-7.20828	49.11148	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0526 for BH3;	FALSE
Lot 4 South West	POS_L4_0288	-6.57274	49.45436	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0289	-6.38545	49.55683	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0527 for BH3;	FALSE
Lot 4 South West	POS_L4_0290	-6.71726	50.37549	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0291	-6.11472	49.18896	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0292	-8.60199	49.60028	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0293	-6.9302	48.97383	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE

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Lot 4 South West	POS_L4_0294	-6.73484	48.98463	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0295	-8.73459	49.62891	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0296	-6.66592	48.9477	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0297	-7.17838	49.33282	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0298	-7.72002	49.26243	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0299	-7.78981	49.20769	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0300	-8.25634	49.7919	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0301	-6.722	49.03031	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0302	-6.89757	49.10766	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0303	-6.83375	49.97602	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0304	-7.94853	49.34757	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0305	-7.0835	49.41924	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0306	-6.89994	49.31648	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0307	-6.65492	49.72772	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0308	-7.06844	49.53651	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0309	-6.79927	49.51529	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0310	-8.28729	49.29286	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0311	-7.15727	49.53594	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0312	-7.90614	49.31113	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0313	-6.70711	50.22569	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0314	-7.48702	49.25813	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0315	-8.7277	49.66315	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0316	-6.84055	49.39681	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0317	-6.76457	49.64015	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0318	-6.77016	50.2635	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0319	-7.66741	49.23973	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0320	-7.02052	49.36029	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0321	-7.09886	49.46517	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0322	-7.38614	49.26826	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0323	-7.7801	49.42111	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 4 South West	POS_L4_0324	-7.23173	49.31257	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0325	-6.69317	49.61678	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0326	-6.65145	49.44083	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0327	-6.51708	49.55914	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0328	-7.05566	49.54056	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0329	-7.1516	49.52578	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0330	-6.72563	48.92271	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0331	-7.72237	49.1006	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0332	-6.69928	50.18566	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0333	-7.062	49.34791	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0334	-6.46509	50.05214	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0528 for BH3;	FALSE
Lot 4 South West	POS_L4_0335	-6.81646	48.92417	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0551 for BH3;	FALSE
Lot 4 South West	POS_L4_0336	-6.02355	49.17368	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0552 for BH3;	FALSE
Lot 4 South West	POS_L4_0337	-5.79772	49.32007	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0553 for BH3;	FALSE
Lot 4 South West	POS_L4_0339	-6.82416	50.11107	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0340	-7.26556	49.29157	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0341	-8.36927	49.55314	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0342	-7.0368	49.24756	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0343	-6.86251	49.03272	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0344	-6.86915	49.18159	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0345	-8.0039	49.35483	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0346	-7.36911	49.11449	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0347	-8.12301	49.27304	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0349	-7.87772	49.27967	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0350	-7.63598	49.22368	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0351	-7.91625	49.87579	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0545 for BH3;	FALSE
Lot 4 South West	POS_L4_0352	-6.44369	49.64361	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0353	-6.57423	50.26534	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 4 South West	POS_L4_0354	-8.14531	49.50108	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0355	-7.11132	50.21557	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0356	-7.18017	49.9963	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0357	-7.33679	49.86761	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0358	-7.09587	50.16798	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0359	-7.07168	50.08491	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0360	-7.71268	49.98291	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0361	-7.31568	50.00294	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0362	-7.05491	50.37556	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0363	-8.03287	49.54167	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0364	-7.41246	49.62818	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0365	-7.471	50.614	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0366	-8.25116	49.64216	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0367	-7.59918	50.11921	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0529 for BH3;	FALSE
Lot 4 South West	POS_L4_0368	-8.10226	49.61815	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0369	-8.17835	50.10517	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0530 for BH3;	FALSE
Lot 4 South West	POS_L4_0370	-7.43969	49.82108	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0371	-6.98686	49.71359	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0372	-7.11029	49.7372	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0531 for BH3;	FALSE
Lot 4 South West	POS_L4_0373	-6.97539	50.15912	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0532 for BH3;	FALSE
Lot 4 South West	POS_L4_0374	-7.46874	50.14201	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0533 for BH3;	FALSE
Lot 4 South West	POS_L4_0375	-7.63437	49.73914	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0536 for BH3;	FALSE
Lot 4 South West	POS_L4_0376	-8.2484	49.51247	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0377	-7.49639	49.66879	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0539 for BH3;	FALSE
Lot 4 South West	POS_L4_0378	-7.8704	49.60033	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0379	-7.18554	49.62115	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0541 for BH3;	FALSE
Lot 4 South West	POS_L4_0380	-7.75205	49.67715	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0547 for BH3;	FALSE

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Lot 4 South West	POS_L4_0381	-7.66181	49.90245	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0549 for BH3;	FALSE
Lot 4 South West	POS_L4_0382	-7.85983	49.74507	Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0384	-7.37677	48.84581	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0385	-7.47699	49.01682	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0387	-7.56299	49.07553	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0388	-6.02121	49.64242	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	TRUE
Lot 4 South West	POS_L4_0389	-8.19548	48.90974	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0391	-8.57246	49.27495	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0392	-5.73409	49.67814	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0393	-6.16682	50.21069	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0394	-7.47396	48.8146	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0395	-7.59235	48.76909	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0396	-7.69594	48.8807	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0397	-5.90278	49.90266	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0398	-8.48977	49.27551	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0399	-8.10311	48.85943	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0400	-8.45684	49.33911	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0401	-7.7928	49.00089	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0402	-7.92272	49.14803	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0403	-5.87722	49.59353	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0404	-7.52424	48.68792	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0405	-7.26018	48.8211	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0406	-7.74663	48.66586	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0407	-7.96922	49.08335	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0409	-8.05748	49.15028	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0410	-7.67001	48.74477	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0411	-8.48647	49.1934	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0412	-5.96508	49.78397	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0413	-8.12294	49.10541	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0414	-7.86173	49.09	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE

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Lot 4 South West	POS_L4_0415	-7.78971	48.83373	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0416	-5.85705	49.70033	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0417	-6.21469	50.15823	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0418	-7.02702	48.82881	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0419	-8.3096	49.026	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0420	-7.59455	48.95276	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0423	-7.86354	48.86878	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0424	-6.01538	49.70676	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0425	-7.91508	48.91345	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0554 for BH3;	FALSE
Lot 4 South West	POS_L4_0426	-7.67724	49.03912	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0555 for BH3;	FALSE
Lot 4 South West	POS_L4_0427	-6.6088	49.58281	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0428	-6.78399	49.08597	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0429	-6.9985	49.40034	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0430	-6.57089	48.9569	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0431	-6.55264	49.95805	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0432	-6.56748	50.0127	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0433	-7.1642	49.05039	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0434	-6.7155	49.92083	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0435	-6.41011	49.54463	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0436	-7.97858	49.88153	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0437	-8.37133	49.30842	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0438	-6.75718	49.30158	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0439	-6.72619	49.25543	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0440	-6.6041	49.29247	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0441	-6.61938	50.28324	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0442	-6.77224	49.51722	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0443	-6.70171	50.06781	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0444	-6.53521	49.6323	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0445	-6.56259	49.38586	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0446	-6.78682	49.36101	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE

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Lot 4 South West	POS_L4_0447	-6.60074	49.89814	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0448	-6.95798	49.45801	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0449	-6.44566	49.60736	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0450	-6.59975	49.34666	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0451	-6.80704	49.22307	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0452	-6.86882	49.19489	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0453	-6.62998	50.21686	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0454	-6.81966	49.43363	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0455	-7.09128	49.48266	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0456	-6.61461	49.63159	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0457	-6.55183	50.19289	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0458	-6.68816	49.49747	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0459	-6.99763	49.19122	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0460	-6.92697	49.27031	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0546 for BH3;	FALSE
Lot 4 South West	POS_L4_0461	-8.13885	49.39391	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0462	-8.71202	49.54629	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 4 South West	POS_L4_0463	-7.45097	49.23022	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0464	-7.09897	49.09427	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 4 South West	POS_L4_0465	-8.71118	49.60107	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0466	-8.19853	49.30669	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0467	-7.06033	49.02267	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0468	-7.00899	48.96743	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0470	-7.78078	49.35363	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0471	-6.93193	48.9971	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0472	-8.47298	49.38754	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0473	-8.39499	49.36904	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0474	-7.17525	49.2616	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0475	-8.37362	49.44861	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0476	-8.44275	49.43005	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0477	-8.63068	49.4792	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0478	-8.48819	49.90758	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 4 South West	POS_L4_0479	-8.37199	49.81254	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0480	-7.67843	49.18606	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0481	-8.5083	49.5264	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0482	-8.52518	49.46495	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0483	-8.31405	49.7295	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0484	-8.07548	49.35379	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0550 for BH3;	FALSE
Lot 4 South West	POS_L4_0485	-8.33726	49.29211	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0556 for BH3;	FALSE
Lot 4 South West	POS_L4_0486	-8.60276	49.42691	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 4 South West	POS_L4_0487	-8.28855	49.4574	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0488	-6.87588	49.5331	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0542 for BH3;	FALSE
Lot 4 South West	POS_L4_0489	-7.28532	49.62182	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0490	-7.83283	50.10728	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0491	-7.45977	50.29665	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 4 South West	POS_L4_0492	-6.83858	50.34466	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0493	-6.91179	50.15882	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0543 for BH3;	FALSE
Lot 4 South West	POS_L4_0494	-7.9312	49.77379	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0544 for BH3;	FALSE
Lot 4 South West	POS_L4_0495	-6.89864	49.62928	Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day; station made 'inactive' following addition of POS_L5_0548 for BH3;	FALSE
Lot 4 South West	POS_L4_0523	-6.0644	49.45	JNCC BH3 indicator station BH3_23 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0524	-6.0607	49.27111	JNCC BH3 indicator station BH3_24 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0525	-6.72311	49.12994	JNCC BH3 indicator station BH3_25 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0526	-6.62713	49.22213	JNCC BH3 indicator station BH3_26 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0527	-6.57788	49.27138	JNCC BH3 indicator station BH3_27 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0528	-6.4819	49.3762	JNCC BH3 indicator station BH3_28 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0529	-7.27852	50.01622	JNCC BH3 indicator station BH3_30 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0530	-7.2722	49.85	JNCC BH3 indicator station BH3_31 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 4 South West	POS_L4_0531	-7.27119	49.70135	JNCC BH3 indicator station BH3_32 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0532	-7.27094	49.63609	JNCC BH3 indicator station BH3_33 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0533	-7.28447	50.18067	JNCC BH3 indicator station BH3_34 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0534	-7.2979	50.24841	JNCC BH3 indicator station BH3_35 (dual purpose for POSEIDON); Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0535	-6.98553	50.21701	JNCC BH3 indicator station BH3_36 (dual purpose for POSEIDON); Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0536	-6.98174	50.15	JNCC BH3 indicator station BH3_37 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0537	-7.05647	50.04876	JNCC BH3 indicator station BH3_38 (dual purpose for POSEIDON); Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0538	-6.97417	49.9215	JNCC BH3 indicator station BH3_39 (dual purpose for POSEIDON); Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0539	-7.7	49.9	JNCC BH3 indicator station BH3_40 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0540	-7.7	49.8	JNCC BH3 indicator station BH3_41 (dual purpose for POSEIDON); Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0541	-7.7	49.65	JNCC BH3 indicator station BH3_42 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0542	-7.7	49.5	JNCC BH3 indicator station BH3_43 (dual purpose for POSEIDON); Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0543	-7.7	49.4	JNCC BH3 indicator station BH3_44 (dual purpose for POSEIDON); Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0544	-7.6	49.35	JNCC BH3 indicator station BH3_45 (dual purpose for POSEIDON); Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0545	-7.7063	49.22364	JNCC BH3 indicator station BH3_46 (dual purpose for POSEIDON); Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0546	-7.7	49.1	JNCC BH3 indicator station BH3_47 (dual purpose for POSEIDON); Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0547	-7.2722	49.85	JNCC BH3 indicator station BH3_66 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0548	-7.24583	49.37083	JNCC BH3 indicator station BH3_67 (dual purpose for POSEIDON); Predicted biotope: MED_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0549	-7.27094	49.63609	JNCC BH3 indicator station BH3_68 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 4 South West	POS_L4_0550	-7.2	49.25	JNCC BH3 indicator station BH3_69 (dual purpose for POSEIDON); Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0551	-6.85	48.9	JNCC BH3 indicator station BH3_73 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 4 South West	POS_L4_0552	-7	48.9343	JNCC BH3 indicator station BH3_74 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0553	-6.05	49.4	JNCC BH3 indicator station BH3_75 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0554	-7.35	48.97292	JNCC BH3 indicator station BH3_77 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0555	-7.2	49	JNCC BH3 indicator station BH3_78 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 4 South West	POS_L4_0556	-7.1	49	JNCC BH3 indicator station BH3_79 (dual purpose for POSEIDON); Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE

APPENDIX 3 – Lot 5 English Channel Array

The table below provides the full station array for Lot 5 (English Channel). Of the 254 stations listed, only 113 will require sampling. These 113 provisional stations are identified as 'TRUE' in the 'Active' column of the table (the back-up stations are labelled as 'FALSE'). Contractors should submit the full array (254 stations) to the Crown Estate for purposes of a Conflict Check. The results of this exercise must be shared with Cefas, with the contractor clearing identifying which stations can and cannot be sampled. Cefas will then issue the contractor with a definitive list of 113 target stations. Further information on the predicted biotope type for each station (i.e. mean richness and abundance, characterising taxa) can be found using the OneBenthic Layers tool (https://rconnect.cefas.co.uk/onebenthic_layers/). Select 'Structure' from the 'Category' drop down and view the 'Characteristics' tab.

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 5 English Channel	POS_L5_0021	-4.86402	49.72302	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0023	-4.58729	49.88647	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0024	-4.79969	50.07007	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0027	-4.81964	50.00517	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0030	-3.52723	49.67849	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0031	-4.98873	49.91563	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0032	-3.38009	49.82817	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0033	-4.12691	50.11696	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0035	-3.99531	49.60816	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0036	-4.8759	50.05484	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0037	-3.82309	49.96437	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0038	-4.75656	49.71999	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0039	-3.86932	49.5791	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0040	-3.29829	49.80419	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0043	-4.61855	49.76549	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0044	-3.74129	49.85567	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0045	-5.10957	49.89293	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0047	-3.78158	49.75948	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0048	-3.66299	49.90597	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0049	-5.30737	49.79484	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0054	-4.98878	49.6577	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0055	-4.87145	49.90153	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0056	-3.20425	49.75472	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 5 English Channel	POS_L5_0057	-5.39416	49.84958	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0058	-4.85001	49.58716	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0059	-3.69077	49.57114	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0060	-4.8895	50.00956	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0061	-4.45785	50.14442	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0062	-3.21585	49.70993	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0066	-5.13402	49.67705	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0068	-4.67551	49.85422	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0069	-4.17845	50.08324	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0070	-4.94304	49.75705	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0071	-3.97109	49.66557	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0072	-4.96162	49.60335	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0073	-3.91456	49.61577	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0076	-3.99638	49.77892	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0077	-3.99299	49.8283	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0078	-3.85445	49.66532	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0081	-4.70043	50.09545	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0083	-4.30515	49.99041	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0090	-3.01881	50.68193	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0091	-2.05781	50.45069	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0096	-4.78607	50.1423	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	TRUE
Lot 5 English Channel	POS_L5_0102	-3.336	49.65332	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0104	-4.86673	49.6634	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0105	-4.28695	49.70038	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0115	-2.63713	50.57071	Predicted biotope: MED_D1; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0118	-1.87108	50.38015	Predicted biotope: MED_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0122	-1.73311	50.34976	Predicted biotope: MED_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0139	-2.3743	50.4953	Predicted biotope: MED_A2b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0145	-1.31995	50.51073	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0146	-1.25235	50.48115	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0151	-2.83378	49.94313	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	TRUE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 5 English Channel	POS_L5_0152	-2.53325	50.03718	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0153	-2.25574	50.55114	Predicted biotope: LOW_A2b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0154	-2.07719	50.54355	Predicted biotope: LOW_A2b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0155	-3.05232	50.06091	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0156	-1.3958	50.2608	Predicted biotope: LOW_A2b; Proposed grab: 0.1m2 Hamon. Replaced due to isolated location than reinstated with new coordinates (previous pos: - 0.807993, 50.37348)	TRUE
Lot 5 English Channel	POS_L5_0159	-4.51629	49.68744	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0160	-5.32141	49.37655	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0161	-5.60811	49.30155	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0162	-4.408	49.63101	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0163	-5.18962	49.65312	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0164	-4.30177	49.82281	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0165	-5.60609	49.7785	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0166	-5.10355	49.45583	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0167	-4.29337	49.61445	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0168	-5.41315	49.57433	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0170	-4.0295	49.56248	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0171	-5.62174	49.73453	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0172	-5.34415	49.59262	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0173	-4.53296	49.61198	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0174	-5.6307	49.66635	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0175	-5.4497	49.61796	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0176	-5.50599	49.4458	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0179	-4.27653	50.04216	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0180	-5.19743	49.94594	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0182	-3.15872	50.03513	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0183	-3.07664	49.92828	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0185	-3.178	49.90986	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0191	-3.25564	49.96748	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0193	-3.07782	49.7947	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0194	-3.13017	49.96029	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0195	-4.4546	49.91454	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE

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Lot 5 English Channel	POS_L5_0204	-3.2162	50.61977	Predicted biotope: LOW_D1; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0210	-5.41566	50.04313	Predicted biotope: LOW_D1; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0211	-2.92916	50.66065	Predicted biotope: LOW_D1; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0213	-2.29586	50.46266	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort then reinstated to replace isolated site.	TRUE
Lot 5 English Channel	POS_L5_0217	-3.36883	50.29022	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0221	-2.08722	50.57938	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0222	-2.86272	50.40535	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0224	-2.61183	50.3291	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0225	-1.29787	50.25011	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0226	-2.8023	50.3772	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0227	-1.24622	50.31362	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0229	-2.50538	50.3263	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0235	-2.92542	50.01348	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0239	-3.92073	50.27502	Predicted biotope: MED_D2d; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0241	-1.21548	50.51752	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0242	-2.4131	50.4065	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0243	-2.95	49.8	JNCC BH3 indicator station BH3_01 (dual purpose for POSEIDON); Predicted biotope: LOW_D1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0244	-3	49.8275	JNCC BH3 indicator station BH3_02 (dual purpose for POSEIDON); Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0245	-2.4	50.26596	JNCC BH3 indicator station BH3_04 (dual purpose for POSEIDON); Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0246	-3.31864	50.13454	JNCC BH3 indicator station BH3_08 (dual purpose for POSEIDON); Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0247	-3.30706	50.03693	JNCC BH3 indicator station BH3_13 (dual purpose for POSEIDON); Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0248	-2.1	50.28482	JNCC BH3 indicator station BH3_19 (dual purpose for POSEIDON); Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0249	-2.35	50.26714	JNCC BH3 indicator station BH3_20 (dual purpose for POSEIDON); Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0250	-2.28562	50.26714	JNCC BH3 indicator station BH3_21 (dual purpose for POSEIDON); Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0251	-4.55	49.71131	JNCC BH3 indicator station BH3_48 (dual purpose for POSEIDON); Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0252	-4.55	49.85	JNCC BH3 indicator station BH3_49 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE

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Lot 5 English Channel	POS_L5_0253	-4.55	50.05208	JNCC BH3 indicator stationBH3_51 (dual purpose for POSEIDON); Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0254	-2.55	50.1	JNCC BH3 indicator station BH3_63 (dual purpose for POSEIDON); Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	TRUE
Lot 5 English Channel	POS_L5_0001	-5.6671	49.29451	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0002	-3.80147	49.8851	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0003	-4.12559	50.0176	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0004	-4.25282	49.75682	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0005	-5.04484	49.8542	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0006	-4.33563	50.13488	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0007	-3.70358	50.01379	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0008	-4.75713	49.87192	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0009	-5.30487	49.7221	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0010	-4.86394	49.957	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0011	-5.10513	49.94146	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0012	-3.81446	49.61455	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0013	-3.39692	49.68503	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0014	-4.1338	49.73165	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0015	-5.67864	49.23839	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0016	-3.30783	49.87736	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0017	-3.49109	49.62567	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0018	-5.23118	49.75841	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0019	-5.05248	49.71243	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0020	-4.31723	49.88569	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0022	-3.19436	49.83327	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0025	-4.02245	49.87589	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0026	-5.38146	49.70162	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0028	-3.71101	49.78891	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0029	-4.95054	50.04119	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0034	-4.74648	49.81261	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE

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Lot 5 English Channel	POS_L5_0041	-3.91994	50.11242	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0042	-4.47665	49.94388	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0046	-3.01721	49.75675	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0050	-4.59521	50.05977	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0051	-4.10812	49.6817	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0052	-4.13883	49.91042	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0053	-3.06511	49.84902	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0063	-3.49074	49.89427	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0064	-3.5789	49.72413	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0065	-4.06947	49.75429	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0067	-3.89239	50.0287	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0074	-5.44392	49.94922	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0075	-4.49814	49.8718	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0079	-4.22638	49.61533	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0080	-5.65119	49.95478	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0082	-3.40835	50.02358	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0084	-3.84981	49.79527	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0085	-2.95655	49.78042	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0086	-3.48449	49.83397	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0087	-2.31815	50.57727	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0088	-5.23546	49.96158	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0089	-2.21139	50.57343	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0092	-2.47384	50.55804	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0093	-3.12985	50.62741	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0094	-2.72412	50.69078	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0095	-5.39252	50.00289	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0097	-4.03746	50.24594	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day. Station dropped following collation of existing data.	FALSE

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Lot 5 English Channel	POS_L5_0098	-4.71545	50.15517	Predicted biotope: LOW_D2b; Proposed grab: 0.1m2 Day	FALSE
Lot 5 English Channel	POS_L5_0099	-4.66156	50.31751	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0100	-4.6896	50.17476	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0101	-3.51673	50.07483	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0103	-5.56401	50.02045	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0106	-3.58311	49.9033	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0107	-3.89206	49.94209	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0252 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0108	-3.5795	50.01418	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0109	-4.70969	49.77337	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0253 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0110	-5.22348	49.83414	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0111	-4.42967	50.0313	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0112	-4.23085	49.9651	Predicted biotope: MED_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0113	-2.90049	50.4854	Predicted biotope: MED_D1; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0114	-3.32499	50.46246	Predicted biotope: MED_D1; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0116	-2.79634	50.61769	Predicted biotope: MED_D1; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0117	-2.69916	50.51639	Predicted biotope: MED_D1; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0119	-4.63839	50.25167	Predicted biotope: MED_C1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0120	-2.7286	50.43754	Predicted biotope: MED_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0121	-2.57523	50.39362	Predicted biotope: MED_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0123	-5.08187	49.99304	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0124	-2.8911	50.17108	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0125	-2.26645	50.13438	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0126	-0.97643	50.14913	Predicted biotope: MED_C1a; Proposed grab: 0.1m2 Hamon. Dropped due to isolated location.	FALSE
Lot 5 English Channel	POS_L5_0127	-2.78986	50.13235	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0128	-2.34422	50.27755	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0129	-3.53761	49.57405	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0245 for BH3;	FALSE

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Lot 5 English Channel	POS_L5_0130	-3.00291	50.17032	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0246 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0131	-2.66419	50.0053	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0132	-3.45885	50.11966	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0133	-2.12865	50.29658	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0134	-2.20218	50.25171	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0249 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0135	-2.83786	50.07932	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0250 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0136	-2.45558	50.08503	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0254 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0137	-3.07814	50.16337	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0138	-3.16546	50.19166	Predicted biotope: MED_B1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0140	-4.05563	49.94878	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0141	-0.38512	50.79838	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0142	-5.33123	50.07802	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0143	-0.09129	50.78123	Predicted biotope: LOW_D2d; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0144	-2.46922	50.43652	Predicted biotope: LOW_D2c; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0147	-2.95573	49.96838	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0148	-3.18713	50.09658	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0149	-3.22329	50.22481	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0150	-4.02904	50.1869	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0157	-5.52781	49.51605	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0158	-5.06381	49.40144	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon. Dropped to reduce effort.	FALSE
Lot 5 English Channel	POS_L5_0169	-5.64967	49.91011	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0177	-5.22435	49.48527	Predicted biotope: HIGH_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0251 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0178	-2.8363	50.16084	Predicted biotope: HIGH_B1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0181	-3.28836	50.04481	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0184	-4.82342	49.57312	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0186	-2.87746	50.01228	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 5 English Channel	POS_L5_0187	-4.39162	50.1517	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0188	-2.95191	49.9396	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0189	-5.51366	50.06109	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0190	-3.21438	50.07975	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0192	-4.08159	50.01075	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0196	-3.97882	50.15425	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0197	-3.05759	49.85755	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0198	-4.62428	50.19949	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0199	-3.15079	49.73204	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0244 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0200	-5.2487	49.9059	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0201	-5.35702	49.91803	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0202	-5.30679	49.97517	Predicted biotope: LOW_D2a; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0247 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0203	-3.42187	50.31592	Predicted biotope: LOW_D1; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0205	-5.34803	50.01941	Predicted biotope: LOW_D1; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0206	-4.69194	50.33885	Predicted biotope: LOW_D1; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0207	-3.21917	50.32115	Predicted biotope: LOW_D1; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0208	-3.11592	50.37586	Predicted biotope: LOW_D1; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0209	-2.82469	50.6516	Predicted biotope: LOW_D1; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0212	-4.65873	50.2682	Predicted biotope: LOW_C1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0214	-4.58727	50.0077	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0215	-2.89077	50.45883	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0216	-4.5227	49.94514	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0218	-2.10303	50.28406	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0219	-0.79973	50.35775	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon. Replaced due to isolated location.	FALSE
Lot 5 English Channel	POS_L5_0220	-1.07121	50.22331	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0223	-4.50094	49.98818	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE

Survey	Station code	Longitude (WGS84)	Latitude (WGS84)	Notes	Active
Lot 5 English Channel	POS_L5_0228	-1.70569	50.28453	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0230	-2.91654	50.27682	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0231	-2.99644	50.30955	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0232	-1.27946	50.47252	Predicted biotope: LOW_C1a; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0233	-3.23016	50.13727	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0234	-2.754	50.33578	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0236	-3.27471	50.1796	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon. Station dropped following collation of existing data.	FALSE
Lot 5 English Channel	POS_L5_0237	-4.32546	50.16009	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon	FALSE
Lot 5 English Channel	POS_L5_0238	-2.31061	50.3018	Predicted biotope: LOW_B1b; Proposed grab: 0.1m2 Hamon; station made 'inactive' following addition of POS_L5_0248 for BH3;	FALSE
Lot 5 English Channel	POS_L5_0240	-1.22735	50.57663	Predicted biotope: MED_D2c; Proposed grab: 0.1m2 Hamon	FALSE

APPENDIX 4 – eDNA sampling (Sediment)

Note that the POSEIDON work only involves the acquisition of samples for eDNA. Cefas will arrange for frozen eDNA samples to be collected from the contractor within 6 months of the completion of fieldwork.

Preparation

For each sediment sampling site the following are required:

- 1 x pair of sterile nitrile gloves per site
- D 3 x 50 mL falcon tubes per site
- 1 x ziplock bag
- fine point permanent marker pens
- spatula
- 10% bleach solution or bleach wipes

Sample collection

To avoid DNA contamination, the grab bucket should be washed between sites using seawater (i.e. deck hose), followed by a 10% bleach solution (using fresh i.e. tap water) and finally distilled water. Both the bleach solution and distilled water can be applied using a spray bottle (suitable precautions must be taken when using bleach – e.g. wear gloves and eye protection).

1. Empty the grab sample into a sufficiently large plastic crate (or as per normal grab sample process)
2. Put on a fresh pair of nitrile gloves.
3. Label the **three falcon tubes** with a unique ID (**date, location (i.e. Station code) and replicate number**) using a permanent marker on the write on panel.
4. Label **ziplock** bag with **location** and **date**
5. Collect approximately 40 mL of sediment into a falcon tube (if this requires a spatula, ensure it is rinsed with bleach solution and then rinsed twice with distilled water), then carefully pour off any excess water, and close the tube. Repeat process for the other 2 falcons, **ensure replicates are evenly spaced within the grab** (middle and sides of the grab). **Make sure no visible organisms are collected.** Note that In coarser sediments, sub-samples will necessarily need to target the finer sediment fractions (if present).
6. Place the 3 falcons into the labelled ziplock bag, push out excess air, and seal. This is to minimise cross contamination in the event of water leakage or split falcon.
7. Immediately place ziplock bag containing samples into a fridge or freezer.

Alternatively, samples can be kept in a closed cool box with ice packs for a few hours before transferring to a fridge or freezer. Samples can be stored in a fridge for a couple of days. If storage time will be longer, samples should be transferred to a -20 °C freezer as soon as possible after sampling. If samples are frozen, they must be kept frozen until arrival at the laboratory because repeat freeze/thaw samples will affect the results. For transportation to the laboratory, samples should be packed in a cool box with ice packs leaving minimal

headspace. For long term storage (several months), it may be advisable to store samples at -80 °C, although this is unnecessary for short term storage (several weeks).

APPENDIX 5 – Sampling decision tree

Notes

A macrofauna/psa sample is required from each station, with a minimum of 4 grab attempts made. Note that carbon/eDNA samples are only required where a 2nd successful grab sample is obtained from the 4 deployments.

