



*Marine Mammal Observer Report
Strategic Gas Emergency Reserve
Marine Site Investigation Works
2026*

Prepared for: Gas Networks Ireland

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1 Executive Summary

Irish Whale and Dolphin Group (IWDG) Consulting were commissioned to provide Marine Mammal Observer (MMO) services and implement marine mammal mitigation measures, during Marine Site Investigations (MSI) for the Gas Networks Ireland (GNI) Strategic Gas Emergency Reserve Project. The survey area was located at Cahiracon, Shannon Estuary, Co. Clare. This project involved both geophysical and geotechnical operations. Geophysical operations requiring MMO mitigation included seismic (sparker), Multi-Beam Echosounder (MBES), Sub-Bottom Profiling (SBP), Side-Scan Sonar (SSS) and Seismic Refraction Profiling (SRP) surveys. Geotechnical operations requiring MMO mitigation comprised sonic and rotary drilling.

Geophysical surveys were conducted over 25 days between the 17 February 2026 and 10 June 2026, resulting in 127 hours and 52 minutes of noise-producing operations. Geotechnical operations were conducted over 31 days between the 5 June 2026 and the 10 July 2026, resulting in a total of 265 hours and 30 minutes of noise-producing operations. During these periods, MMOs completed a total of 75 pre-watches and 242 effort watches, amounting to 298 hrs and 16 minutes of observer effort.

Six marine mammal sightings were recorded throughout the project, with one mitigation action implemented when the commencement of seismic operations was delayed due to the presence of bottlenose dolphins (Sighting Ref#1) within the mitigation zone (MZ) on the 17 February 2026. Following the required pre-watch period, and once no marine mammals had been observed within the MZ for a continuous period of 30 minutes, the on-duty MMO gave clearance for operations to commence. This resulted in an estimated 28-minute delay to the start of operations. No MMO mitigation issues arose during the survey. The MMO was satisfied that all regulations and licensing conditions were adhered to throughout the survey, and that marine mammal mitigation measures were prioritised at all times by GNI and Murphy/Causeway, as client and operators, respectively.

2 Introduction

Cetaceans and pinnipeds in Ireland are protected under national legislation and several international directives and agreements, which Ireland is signatory to. All cetaceans, as well as otters and grey and harbour seals, are protected under the Wildlife Act (1976) and its amendments (2000, 2005, 2010 and 2012). Under the act and its amendments, it is an offence to hunt, injure, wilfully interfere with, disturb or destroy the resting or breeding place of a protected species (except under license or permit). The act applies to the area inside the 12nm limit of Irish territorial waters.

All cetaceans and pinnipeds are protected under the EU Habitats Directive. All cetaceans are included in Annex IV of the Directive as species ‘in need of strict protection’. Under this Directive, the harbour porpoise (*Phocoena phocoena*), bottlenose dolphin (*Tursiops truncatus*), grey seal (*Halichoerus grypus*) and harbour seal (*Phoca vitulina*) are designated Annex II species which are of community interest and whose conservation requires the designation of special areas of conservation. Additionally, harbour porpoise and bottlenose dolphins have been added as Qualifying Interests to existing SACs. The Eurasian otter (*Lutra lutra*) is protected under Annex II and Annex IV of the Directive. Ireland is also signatory to conservation agreements such as the Bonn Convention on Migratory Species (1983), the OSPAR Convention for the Protection of the Marine Environment of the northeast Atlantic (1992) and the Berne Convention on Conservation of European Wildlife and Natural Habitats (1979).

In 2007 the National Parks and Wildlife Service (NPWS) of the Department of Arts, Heritage and the Gaeltacht produced *Code of Practice for the Protection of Marine Mammals during Acoustic Seafloor Surveys in Irish Waters* (DEHLG, 2007). This document was subsequently reviewed and amended to produce *Guidance to manage the risk to marine mammals from man-made sound sources in Irish waters* (DAHG, 2014), generally known as the NPWS Guidelines. The guidelines recommend that coastal and marine activities be subject to a risk assessment for anthropogenic sound-related impacts on relevant protected marine mammal species in order to address any area-specific sensitivities, both in timing and spatial extent, and to inform the consenting process.

In March 2025, the Government of Ireland approved the advancement of a State-led strategic gas emergency reserve. Establishing a temporary gas reserve has been identified as a critical

measure to safeguard Ireland's energy security as the country continues its transition to indigenous, clean, renewable energy sources.

Following this decision, Gas Networks Ireland (GNI) intends to develop a receiving terminal and jetty to facilitate a Floating Storage and Regasification Unit (FSRU). This infrastructure will enable the importation and storage of Liquefied Natural Gas (LNG) within Ireland's territorial waters.

To inform the engineering design of the proposed project, MSI surveys comprising geophysical and geotechnical operations, were undertaken within the Shannon Estuary. Geophysical operations consisted of two seismic (sparker) surveys, followed by MBES, SBP and SSS surveys. A magnetometer (MAG) survey was also conducted and, while MAG itself does not need mitigation measures due to not producing sound in the water column, the Ultra-Short Baseline (USBL) positioning system operated simultaneously and required MMO mitigation. Noise producing geotechnical operations comprised sonic and rotary drilling, at 13 locations across the site. Cone Penetration Tests (CPTs) were also carried out at 10 locations, however, as these investigations do not produce significant noise, MMO mitigation was not required.

An MMO was therefore engaged to implement the required mitigation measures in accordance with the project specific Marine Mammal Mitigation Plan (MMMP). This included conducting onboard pre-watches and effort watches, recording marine mammal sightings and documenting mitigation actions and survey activities.

Scantech were contracted to undertake the geophysical surveys using the chartered Shannon-Foynes Port multicat vessel, *Shannon 1*. Causeway Geotech Ltd. were contracted to undertake the geotechnical scope, using the Jack-Up Barge (JUB) *Causeway Giant 2*. Nicholas O' Dwyer Ltd. acted as the environmental consultant for the project, commissioning IWDG Consulting to provide MMO services and implementation of a project-specific MMMP.

3 Area of Operation

Surveys and investigations took place proximal to Foynes Port within the Shannon Estuary, north of Foynes Island, Co. Limerick. The northern bank landfall was proximal to Caheraconn House, between Rencalon Point and Inishmurray Quay, Co. Clare, approximately 23 km southwest of the town of Ennis.

Survey vessels were based in Shannon-Foynes Port and transited to survey site each morning through the main port entrance channel. During geophysical surveys, once acquisition was complete for the day, the vessel returned to port. For geotechnical works, personnel were transferred to and from the JUB during the 07:00 and 19:00 shift changes using a Crew Transfer Vessel (CTV) operating from Shannon-Foynes Port.

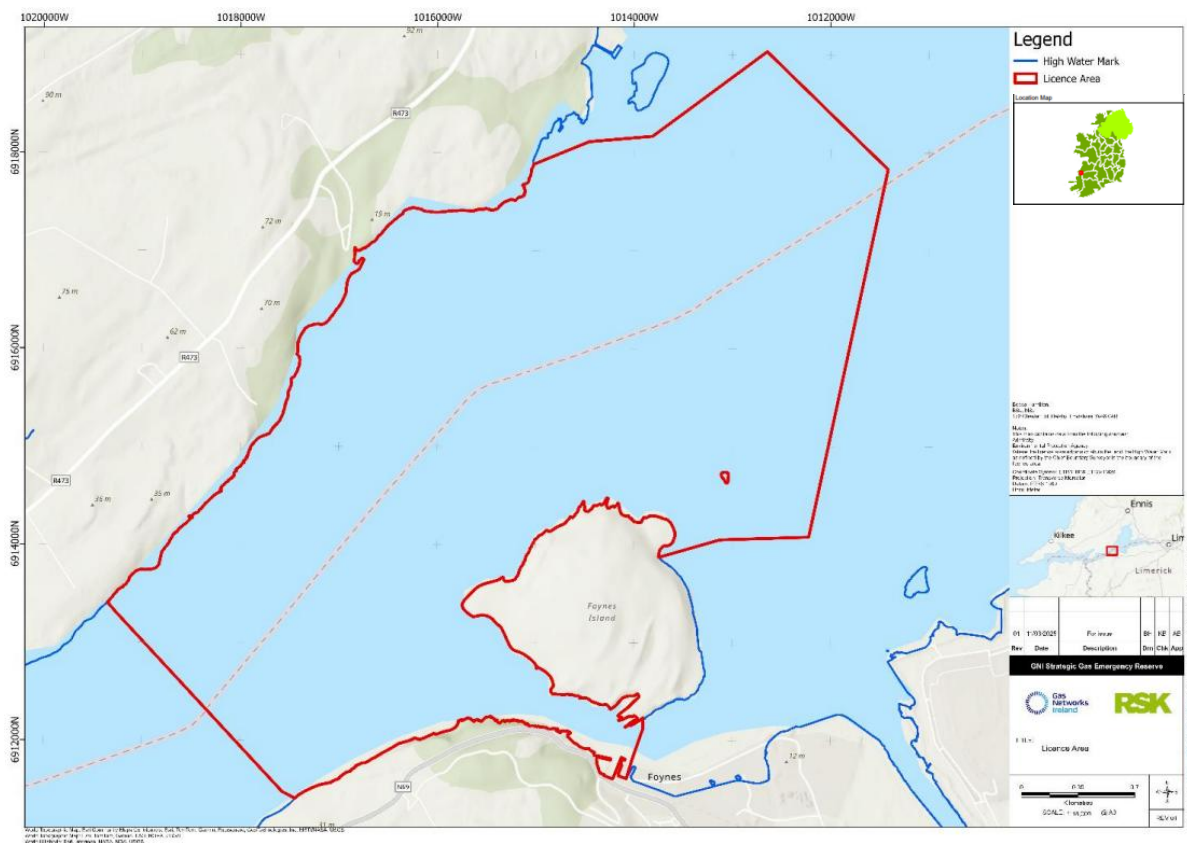


Figure 1. Maritime Usage License Area of Strategic Gas Reserve project, between Foynes Island and Cahiraconn, Co. Clare. During geophysical surveys, operations were daytime only – vessels departed from Shannon-Foynes port and soft-start began once area was deemed to be clear of marine mammals. During geotechnical investigations operations were 24 hours, and CTV brought personnel to and from JUB on location. Map accessed and adapted from the document Strategic Gas Emergency Reserve – MSI Works Risk Assessment for Annex IV Species.

4 Survey Operations

4.1 Vessels and work platforms

Table 1. Vessel details for seismic operations.

Vessel	<i>Shannon 1</i>
Vessel Type	MultiCat
Licence	Passenger
Draft (m)	1.8m
Operations	Seismic (Sparker)



Image 1. Shannon 2 MultiCat. Image courtesy of Fergal Clohessy/ Marine Traffic.

Table 2. Vessel details for geophysical operations.

Vessel Company Name	<i>DMC Sales and Plant Hire</i>
Vessel Type	Aluminium Hull RHIB
Licence	Passenger
Draft (m)	0.4m
Operations	MBES/ SSS/ SBP/ SRP



Image 2. Vessel owned by DMC Sales and Plant Hire used for geophysical survey operations MBES, SSS, SBP and SRP. Image from Scantech Geoscience Ltd.

Table 3. Details of vessel used for SRP operations.

Vessel	<i>Boluisce</i>
Vessel Type	HDPE (High Density Polyethylene) survey boat
Licence	Passenger
Operations	SRP

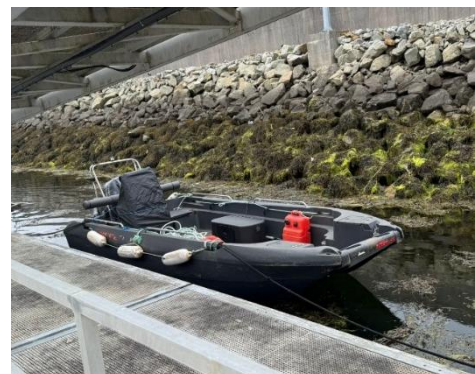


Image 3. Vessel Boluisce used for SRP surveys.

Table 4. Details of vessel used for SRP operations.

Vessel	Dubhease
Vessel Type	HDPE (High Density Polyethylene) survey boat
Licence	Passenger
Operations	SRP



Image 4. Vessel Dubhease used for SRP operations.

Table 5. Platform details for geotechnical operations.

Platform	Causeway Giant 2 (CG2)
Vessel Type	Jack-Up Barge
Deck/Pontoon Dimensions:	26.83 x 17.07 x 2.44 m
Dimensions with Spud Wells in Place:	24.38 x 17.07 m
Draft at Capacity:	3.00 m (Base of Spud Legs)
Max Free Leg Length:	29.50m
Operations	Geotechnical Survey (Rotary and Sonic drilling)



Image 5. Causeway Giant 2 while jacked up on project.

Table 6. Details of vessel used for crew transfers throughout geotechnical operations.

Vessel	<i>Ocean Quest</i>
Vessel type	Rigged Hulled Inflatable Boat (RHIB)
Dimension	8 x 2.5m
Draft	1m
Call sign	EIGW8
Operations	Crew transfers and aiding JUB movements



Image 6. Ocean Quest carrying out a crew transfer to CG2.

Table 7. Details of JUB support vessel throughout geotechnical operations.

Vessel	<i>Ocean Battler</i>
Vessel Type	MultiCat Vessel/ Tugboat
Dimensions	19 x 8m
Draft	1.8m
Call Sign	EITS6



Image 7. Ocean Battler Damen Stan Tug image courtesy of Atlantic Towage and Marine Ltd/atlantictowage.com.

4.2 Overview of Operations

Geophysical Operations

Seismic

Seismic surveys comprised east-west survey lines up and down river, as well as north-south lines cross-river. A sparker was towed approximately 40 m astern operating at a fire rate of one shot per second while at full power. A streamer was towed at either 150 m or 300 m, depending on the survey objective (reflection or refraction data acquisition). Seismic surveys were completed over four survey days.

MBES

The MBES survey employed a systematic ‘paint the seabed’ method, consisting of primary survey lines, crosslines and infill lines where required to ensure complete seabed coverage. The MBES survey was completed over one survey day.

SBP

SBP surveys comprised east-west survey lines together with two crosslines and were completed over two survey days.

SSS

SSS surveys consisted of east-west survey lines with sufficient overlap to ensure complete coverage of the survey area. Multiple passes were required along certain lines to maintain the towfish at the optimum operating altitude above the seabed, with the tow cable length adjusted as necessary based on seabed depths and features identified during the MBES survey. No crosslines were required. SSS surveys were completed over three survey days.

SRP

SRP comprised three survey lines completed over two survey days.

Geotechnical Operations

The geotechnical investigation comprised 13 boreholes involving sonic and rotary drilling, together with 10 CPTs. geotechnical operations were completed over 31 survey days. The coordinates of the borehole and CPT locations are provided in *Table 8*.

Table 8. Borehole co-ordinates for geotechnical operations.

Location Name	Latitude	Longitude
BH12 & CPT1	52°38.627'	-9°7.197'
BH13	52°38.605'	-9°7.181'
BH14 & CPT2	52°38.584'	-9°7.167'
BH15	52°38.559'	-9°7.148'
BH16 & CPT3	52°38.497'	-9°7.202'
BH17	52°38.48'	-9°7.143'
BH18 & CPT4	52°38.515'	-9°7.161'
BH19 & CPT5	52°38.447'	-9°7.327'
BH20 & CPT6	52°38.462'	-9°7.291'
BH21 & CPT7	52°38.476'	-9°7.241'
BH22 & CPT8	52°38.534'	-9°7.123'
BH23 & CPT9	52°38.553'	-9°7.088'
BH24 & CPT10	52°38.572'	-9°7.049'

4.3 Survey Instrument Specifications

Geophysical Operations

Table 9: Geophysical survey equipment utilised during the survey

Survey Method	Equipment
Seismic	Applied Acoustic CSP2800 SRP (Sparker 400-tip) with Applied Acoustic Geometrics Streamer
MBES	Norbit
SBP	INNOMAR MEDIUM 100
SSS	Edgetech 4125i Towfish (600/1600 kHz)
SRP	Bolt Model 2800LLX LongLife™ Air Gun

Table 10. Sparker acquisition parameters.

Acquisition Phase	Sparker Distance Aft (m)	Streamer Length (m)
Refraction	40	300
Reflection	40	150

Geotechnical Operations

Table 11: Geotechnical survey equipment utilised during the survey

Survey Method	Equipment
Sonic and Rotary Drilling	Fraste CRS XL Duo Roto-sonic drilling rig (0-150Hz)

5 Mitigation Plan and Parameters

A MMMP was prepared by IWDG Consulting prior to mobilisation and distributed to all relevant project teams.

An Annex IV Species Risk Assessment, Marine Usage License (MUL) and the DAHG (2014) marine mammal mitigation guidelines were used in the preparation of the MMMP. The document outlined the mitigation measures required before and during all MSI activities for this project. A Joint Nature Conservation Committee (JNCC) certified MMO was present during all noise producing activities to implement the NPWS mitigation requirements. The IWDG Consulting MMOs deployed during the project were Andrew Shine, Rónán Berrow, Fiona Cummins, Sorchu Maguire and Tess Van Der Erve.

Appropriate weather conditions, including adequate visibility, are essential for effective monitoring. In general, visibility extending at least 1km or more beyond the limits of the MZ is necessary, with Sea State 4 representing the upper limit for acceptable monitoring conditions. Pre-watches did not commence more than 30 minutes before sunrise and were not continued 30 minutes after sunset. During active operations, effort watches were not mandatory but were undertaken where practicable, allowing for appropriate rest periods for personnel. Geophysical surveys required one MMO on duty during daylight operations. Geotechnical operations were undertaken 24 hours per day, seven days per week, requiring two MMOs working alternating 12-hour shifts.

Geophysical Operations I - Seismic and SRP

For seismic and SRP operations, the MZ comprised a **1,000 m** radius around the acoustic source, creating a 2 km diameter MZ. A minimum pre-watch of **30 minutes** is required before any acoustic source can be initiated. Pre-watches commenced while the vessel was in transit once the survey area was visible.

Soft-start procedures were discussed and agreed onboard between the MMO and survey engineers. As the power output of the equipment for seismic operations cannot be gradually increased, the shot interval was progressively reduced over a 40-minute ramp-up period to achieve a gradual increase in sound output. During non-acquisition periods, such as line turns, instrument calibration and technical delays, sound output was reduced where practicable. No soft-start was possible for SRP operations.

Breaks in sound output from survey equipment last more than **10 minutes** required full pre-start monitoring measures and ramp-up procedures prior to recommencing operations. Should marine mammals be observed within the MZ during the pre-watch period, the commencement of operations was delayed or the vessel repositioned, as agreed with the vessel crew. Once acoustic output had commenced following completion of the soft-start procedure, there was no requirement to halt operations should marine mammals enter the MZ.

Geophysical Operations II - MBES, SSS and SBP

The MZ comprised a **500m** radius around the acoustic source, creating a 1 km diameter MZ. A minimum pre-watch of **30 minutes** is required before any acoustic source can be initiated. Pre-watches commenced while the vessel was in transit once the survey area was visible.

Geotechnical Operations

The MZ comprised a **500m** radius around the acoustic source, creating a 1 km diameter MZ. A minimum pre-watch of **30 minutes** is required before drilling operations can commence. MMOs were not stationed onboard the JUB during relocations; therefore, pre-watches commenced once the JUB had been positioned and jacked up at the survey location. Drilling operations were deemed to have commenced upon initiation of sonic or rotary drilling. If a marine mammal was observed within the MZ during the 30-minute pre-watch, commencement of drilling operations was to be delayed until no marine mammals had been observed within the MZ for a continuous period of 30 minutes. Once the MMO confirmed the MZ was clear, clearance was given for drilling operations to commence. Once noise-producing operations had commenced, there was no requirement to halt operations if a marine mammal entered the MZ, nor if operations continued into the night or weather conditions deteriorated. Breaks in noise-producing operations exceeding **30 minutes** required full pre-start monitoring measures prior to recommencement.

6 Observation Methodologies

6.1 MMO Observation Platform

Geophysical Operations

For seismic operations, the MMO utilised the open deck and bridge area of the *Shannon 1* (Image 1 and Table 1) for all watches. The MMO's eye height on deck of *Shannon 1* was approximately observer height plus 1.50 m above sea level. The bridge was approx. 6.80 m above sea level. These observation platforms provided an effective view of the MZ.

For all other geophysical activities, the MMO was stationed onboard an unnamed aluminium hull RHIB supplied by DMC Sales and Plant Hire (Image 2 and Table 2 above). The MMO utilised binoculars, a laser rangefinder, cameras, phone and laptop to monitor the MZ and record any marine mammal sightings.

Geotechnical Operations

MMOs utilised the deck area and a small observation area above the welfare cabins onboard *CG2* for all watches (Image 5 and Table 5). The MMO's eye height varied between borehole locations; however, the observation platform was generally taken to be approximately 5 m above sea level, based on Causeway GPS readings, measured in situ. These observation platforms provided an effective view of the MZ surrounding the JUB. MMOs utilised binoculars, cameras, phone and a laptop to monitor the MZ and to record any marine mammal sightings.

Table 12. MMO equipment utilised during the project.

MMO Equipment	Model
Camera	Canon 5D; Canon 7D Mark ii
Lens	EF 300 mm Ultrasonic 1:4; Canon EF-S 18-200mm f/3.5-5.6 IS
Binoculars	DISCOVER WP PC by Opticron 8X42 Olympus 10x50 DPS I Bushnell Powerview 12x50 FOV267FT Braun Marine 7x50 Reticle Binoculars
Range	AOFAR HX 650 m Laser Rangefinder; Pinloc5000i Laser Rangefinder; Leica Rangefinder; Range stick

6.2 Distance Measurement Tools

Distance was primarily estimated visually. This was considered appropriate given the relatively short distances involved and the availability of numerous fixed reference points, including shoreline features, buoys and jetties, which were used in conjunction with the MMO's experience. Where a greater degree of accuracy was required, such as when marine mammals were observed close to the proposed start location of operations, a laser rangefinder was utilised. Sighting distances were subsequently verified using digital mapping tools as part of the project's quality assurance procedures.

6.3 Methods of Recording

Geophysical and Geotechnical Operations

For geophysical operations, the MMO photographed onboard navigation and acquisition screens containing relevant survey information during watches and marine mammal sightings. This allowed for instantaneous capture of time and vessel position and minimised distraction during potentially time-sensitive events. During geotechnical operations, the JUB co-ordinates were acquired from the engineer at each location.

All monitoring data were subsequently logged through an Excel document created by MMO specifically for the project. Information was recorded within a 'Summary' data sheet which automatically populated NPWS Effort and Activity data forms and allowed real-time updating of data tables. A 'Sightings' Excel sheet was also kept within this document which recorded all standard sighting information and automatically calculate WGS-84-fitted animal location coordinates using the vessel position, animal distance and bearing (azimuth). NPWS Sighting forms were completed separately. Daily reports were prepared and electronic backup copies of project data were created each evening.

6.4 Procedural methodology for start of operations

All geophysical survey activities were conducted during daylight hours only. Pre-watches were initiated once the vessel began approach to the survey site and continued during equipment deployment until the survey technicians were ready to initiate acoustic operations. Once the MMO confirmed that the MZ was clear of marine mammals for the required pre-watch period, clearance was given to the crew to commence the soft-start procedure (where applicable). The MMO then transitioned to an effort watch, remaining on watch throughout the soft-start procedure and where

practicable, for the duration of acoustic operations.

Once operations had commenced, there was no requirement under the NPWS (2014) guidance to discontinue operations, provided operations remained continuous and there were no breaks in underwater sound production exceeding 10 minutes for seismic and SRP operations, or 30 minutes for all other operations (MBES/SSS/SBP). Where breaks exceeding these thresholds occurred, including those resulting from tidal restrictions or environmental limitations, a full pre-watch was conducted by the on-duty MMO during daylight hours prior to the recommencement of operations.

Details of soft start procedures for seismic activity are provided below, while mitigation procedures for all other geophysical activities are described in Section 7.1.

Seismic Operations

The agreed soft-start procedure for seismic operations is summarised in Table 13.

Table 13: Seismic soft-start procedure

Time	Shot Interval
0-9 min	15 seconds
10-19 min	10 seconds
20-29 min	5 seconds
30-40 min	2 seconds
Acquisition	1 second

The above procedure was agreed between the MMO and survey team prior to commencement of the survey and was followed throughout all seismic operations.

During line turns, sound output was reduced by increasing the shot interval to 15 seconds. A three-shot burst with a one-second shot interval was conducted during the lead-in, approximately one minute before the start of each survey line.

Stepwise seismic operational procedure:

- Short morning briefing outlining the day's survey objectives
- Vessel approached the survey area and the MMO commences the pre-watch. Time, position and weather conditions are recorded.

- Deployment of equipment begins. The survey crew informed the MMO when they were ready to commence operations.
- If no animals were observed, ‘all clear’ was given to operators and soft-start procedures were initiated. Once instruments reach full power, MMO transitioned to effort watches.
- Effort watches are generally undertaken in one-hour periods where possible. Time, position and weather conditions are recorded for each.
- During line turns, the shot interval was increased to reduce sound output.
- The MMO is informed of any unscheduled stoppages.
- At the completion of survey operations, the MMO was informed of survey end for period, and vessel returned to port.

MBES, SBP, SSS and SRP operations followed the general mitigation procedures outlined within the project-specific MMMP. No survey-specific procedural variations were required.

Geotechnical Operations

The project-specific MMMP was discussed with the crew during the project induction meeting, prior to the commencement of operations on 4 June 2026. As geotechnical operations continued throughout the day and night, pre-watches were conducted during daylight hours only.

Stepwise geotechnical operational procedure:

- MMOs boarded the JUB once it is jacked up at the survey location.
- A shift handover was completed for all crew members.
- A toolbox talk was conducted to discuss the day’s objectives and any relevant hazards.
- A 30-minute pre-watches was undertaken by the MMO while the crew prepared the drilling rig for operations. No soft start procedure was possible for drilling operations.
- The drilling crew confirmed with the MMO that the MZ was clear before commencing drilling operations. Drilling operations were deemed to have commenced upon initiation of sonic or rotary drilling.
- If no marine mammals were observed within the MZ during the required pre-watch period, clearance was given to the drilling crew and drilling operations commenced. Once drilling commenced, the MMO transitioned to effort watches.

- Effort watches were generally undertaken in one-hour periods where practicable. Time, position and weather conditions were recorded for each watch.
- The MMO was informed of any unscheduled stoppages or equipment breakdowns.
- The MMO was notified when drilling operations ceased.

7 Results

7.1 Geophysical Survey Operational Summary

Overall, geophysical surveys were conducted over 25 days between the 17 February 2026 and 10 June 2026, resulting in 127 hours and 52 minutes of geophysical survey effort. A summary of geophysical operations is provided in Table 15, with an overview of each survey activity presented below.

Seismic

Seismic mobilisation commenced on 16 February 2026, with wet testing undertaken on 17 February 2026. Data acquisition commenced on 18 February 2026 and concluded 24 February 2026. All seismic operations were undertaken using the agreed soft-start procedure.

MBES

MBES surveys were mobilised and completed on 27 February 2026. A conventional soft-start procedure was not undertaken, as the operator confirmed that the MBES software did not allow incremental power increases. In addition, given the configuration of the survey system on the vessel, repeatedly switching the equipment on and off was considered likely to increase the risk of signal loss. As MBES operates at a very high frequency and is generally considered a low-risk acoustic source, it was agreed that a soft start would not be implemented. Instead, following completion of the required pre-watch, the MBES was activated while the vessel was departing the Port, thereby reducing the potential risk associated with the sudden onset of sound production within the main survey area.

SBP

SBP surveys commenced on 9 March 2026 and concluded on 14 March 2026. Soft-start procedures were implemented using the systems built-in ramp-up function, which automatically increased power output in incremental stages as summarised in Table 14.

Table 14: SBP soft-start procedure

Time	Power Output
0 min	20%
7 min	40%
14 min	70%
20 min	100%

Side-scan sonar (SSS) & USBL

The SSS survey was mobilised on 15 March 2026 and concluded 19 March 2026. Testing and calibration were carried out on 16 March 2026. According to the surveyor, no soft-start procedure was possible for the USBL or associated positioning beacons. Following completion of the required pre-watch, the USBL system was initially activated while the vessel remained within the port, thereby reducing the potential risk associated with the sudden onset of sound production within the main survey area.

A soft-start procedure for the SSS was achieved by switching the towfish on and off while it remained suspended approximately 1 m below the vessel's hull. However, a soft-start was not undertaken on 17 March 2026 due to deteriorating sea conditions. Following discussion between the MMO and survey team, it was agreed that conducting the procedure would present an unacceptable safety risk as the towfish's proximity to the vessel during the soft-start procedure potentially restricts vessel manoeuvrability. Following completion of the pre-watch, the towfish was deployed directly from the stern to its operational depth, after which survey operations commenced without a soft-start. Soft-start procedures were successfully undertaken during all other SSS survey periods.

SRP

SRP operations were undertaken using a single air gun. A total of three survey lines were completed over two survey days, from 9 and 10 June 2026. No soft-start procedure was implemented prior to the commencement of SRP survey operations, as the airgun system used for the survey was not capable of a gradual ramp-up. In accordance with the project-specific MMMP, a 30-minute pre-watch was completed prior to commencing operations.

The duration and timing of each geophysical survey operation are summarised in Table 15.

Table 15. Summary of geophysical survey operations and acoustic source activity.

Operation	Hours source active	Start Date	End Date	Number of Operational days
Sparker	28:31	17/02/2026	24/02/2026	6
MBES	04:12	27/02/2026	27/02/2026	1
SBP	25:30	09/03/2026	14/03/2026	5
USBL	09:14	16/03/2026	08/04/2026	3
USBL+SSS	27:46	16/03/2026	19/03/2026	4
USBL+MAG	31:07	20/03/2026	23/03/2026	4
SRP	01:32	09/06/2026	10/06/2026	2
Total	127:52	17/02/2026	10/06/2026	25

7.2 Geotechnical Survey Operational Summary

Geotechnical operations commenced on 5 June 2026 and concluded on 10 July 2026. Drilling operations were undertaken over 31 operational days, resulting in 265 hrs and 30 mins of noise producing drilling activity. A summary of the geotechnical survey operations is presented in Table 16.

Table 16. Summary of geotechnical survey operations, operational dates and drilling activity.

Operation	Hours source active	Start Date	End Date	Number of Operational days
Rotary/ Sonic Drilling	265:30	05/06/2026	10/07/2026	31

7.3 Geophysical Survey Monitoring Effort Summary

Over 25 days of geophysical survey operations, 39 pre-watches and 143 effort watches were conducted. This resulted in a total of 146 hours and 40 minutes of MMO observation effort, of which 120 hours and 22 minutes occurred during noise-producing survey operations. A breakdown of MMO monitoring effort across each geophysical survey type is presented in Table 17.

Table 17. Summary of MMO monitoring effort during geophysical survey operations

Operation	Total observation time (hh:mm)	Observation during sound production (hh:mm)	Number of Pre-watches	Number of Effort watches	Total days monitoring took place
Sparker	36:52	27:40	13	29	6
MBES	04:50	04:12	1	5	1
SBP	27:13	23:24	7	31	5
USBL	17:14	12:41	7	17	3
USBL+SSS	22:17	19:49	4	25	4
USBL+MAG	33:12	31:07	4	33	4
SRP	05:02	01:29	3	3	2
Total	146:40	120:22	39	143	25

7.4 Geotechnical Survey Monitoring Effort Summary

Over 31 days of geotechnical survey operations, 36 pre-watches and 99 effort watches were conducted. This resulted in a total of 151 hours and 36 minutes of MMO observation effort, of which 90 hours and 32 minutes occurred during noise-producing drilling operations. A summary of MMO monitoring effort during drilling operations is presented in Table 18.

Table 18. Summary of MMO effort during drilling operations.

Operation	Total mins of observation	Minutes of observation during sound production	Number of Pre-watches	Number of Effort watches	Total days monitoring took place
Rotary/ Sonic Drilling	151:36:00	90:32:00	36	99	31

7.5 Sightings

A total of six marine mammal sightings were recorded during the project. Of these, one occurred during a pre-watch, two during effort watches and three were incidental sightings.

Sighting #1 (Image 8) occurred on 17 February 2026 during a pre-watch prior to the commencement of seismic operations. A group of seven bottlenose dolphins were sighted approximately 250 m from the vessel, within the MZ. Commencement of survey operations was delayed until no marine mammals had been observed within the MZ for a continuous period of 30 minutes. This led to a delay to start of operations by 28 minutes.

All other sightings were recorded during the geotechnical phase of the project, and no further mitigation actions were required. A summary of all sightings recorded during the project is provided in Table 19.

Table 19. Summary of marine mammal sightings recorded during the project

Species	Number of sightings	% of Total Sightings	Total Individuals	Adults	Juveniles	Calves	Geophysical Operations	Geotechnical Operations
Bottlenose dolphin	5	83	33	30	3	0	1	4
Grey seal	1	17	1	1	0	0	0	1
Total	6	100	34	31	3	0	1	5



Image 8. Bottlenose dolphin sighting on the 17/02/2026, sighting Ref#1.



Figure 2. Projected locations of sightings throughout project operations 17/02/2026-10/07/2026.

7.6 Mitigation

A single mitigation event was recorded during the project. The event occurred during the geophysical survey phase, when the commencement of seismic operations was delayed following the observation of bottlenose dolphins within the MZ during a pre-watch. Details of the mitigation event are summarised in Table 20.

Table 20. Details of mitigation events over the course of geophysical and geotechnical operations.

Mitigation Ref #	Date	Time (UTC)	Intended Activity	Sighting Ref #	Operational Response	Distance to animals when Ops began	Time since animals sighted	Delay (Y/N)	Duration of Delay (h:mm)	Mitigation agreed with	Crew Response Satisfactory?	Photo Ref#
01	17/02/2026	15:50	Seismic	1	Delay	>500m	00:33	Y	Testing, no delay to acquisition	Survey	Y	S2

7.7 Weather Conditions

Weather conditions recorded throughout the survey are summarised in Figure 3. A total of 315 weather observations were recorded during geophysical and geotechnical survey operations.

Survey operations were predominantly undertaken in Beaufort Sea States 2-4 (SS2-SS4), which together accounted for 86% of all weather observations. Of these, Beaufort Sea State 3 (SS3) was the most frequently recorded, representing 34% of all observations. Visibility generally exceeded 10 km, and little or no swell was recorded during the majority of monitoring effort, providing favourable conditions for marine mammal observation.

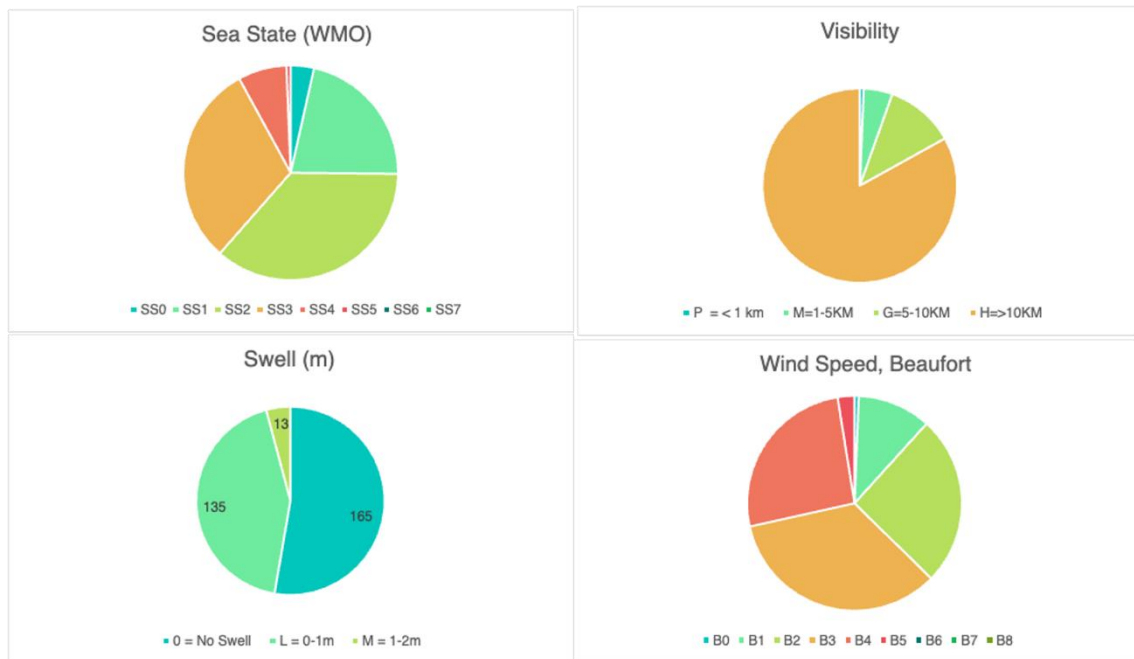


Figure 3. Summary of environmental conditions recorded during geophysical and geotechnical survey operations, including sea state, visibility, swell and wind speed.

8 Conclusion

The project was undertaken in compliance with the DAHG (2014) guidelines and the requirements of the MUL throughout the survey, with no non-compliance events recorded.

The survey and marine crews were professional and proactive with regards to both communication with the MMO and consistently adhered to the prescribed marine mammal mitigation measures during testing and survey commencement. The Scantech and Causeway teams were content to accept MMO requests and implemented mitigation requirements where required.

Marine mammal monitoring was undertaken efficiently throughout the project, with clear and effective communication always maintained between the MMO and vessel personnel. There were no instances of survey operations commencing without an MMO 'all clear' and the MMO was satisfied that the required mitigation measures were implemented appropriately throughout the project.

A total of six marine mammal sightings were recorded during the project, with a single mitigation event resulting in a temporary delay to the commencement of seismic operations during testing. No further mitigation actions were required, and survey operations were completed successfully in accordance with the project-specific MMMP.

9 References

Conservation of migratory species - Bonn Convention. 82/461/EEC. OJ L 210 of 19.7.1982. (1983)

Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention). European Treaty Series No.104 (1979)

EC Habitats Directive. Council Directive 92/43/EEC of 21 May 1992 on the Conservation of natural habitats and of wild fauna and flora. OJ L 206, 22.7.1992, p. 7–50 (1992)

National Parks and Wildlife Service (2007) Code of Practice for the Protection of Marine Mammals during Acoustic Seafloor Surveys in Irish Waters. Department of Environment, Heritage and Local Government, Ireland.

National Parks and Wildlife Service (2014) Guidance to manage the risk to marine mammals from man-made sound sources in Irish waters. Department of Arts, Heritage and the Gaeltacht, Ireland.

OSPAR Commission. "OSPAR Convention for the protection of the marine environment of the North-East Atlantic." (1992)

Wildlife Act. "Government of Ireland." (1976)

10 List Of Appendices

Appendix I. MMO Qualification

Appendix II. NPWS Effort Form

Appendix III. NPWS Activity Form

Appendix IV. Sighting Sheets



Andrew Shine

📍 Skibbereen & Cork City, Co. Cork, Ireland

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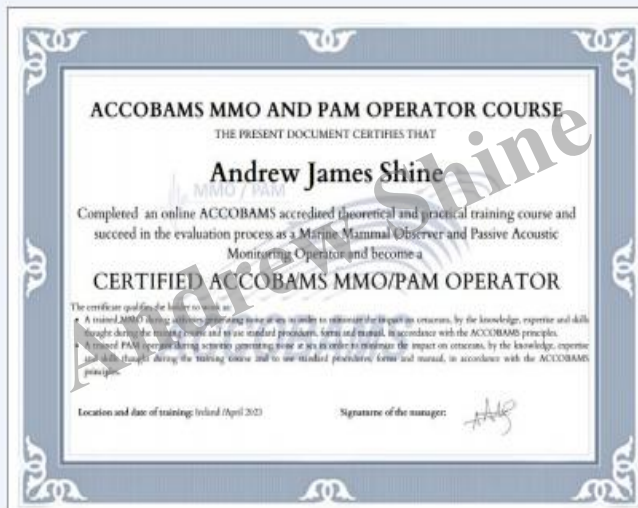
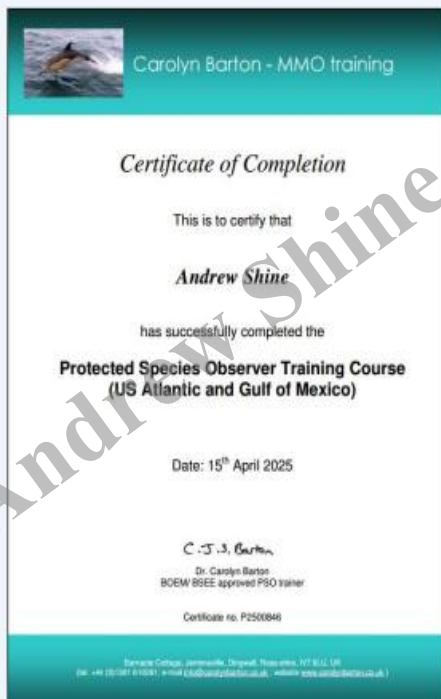
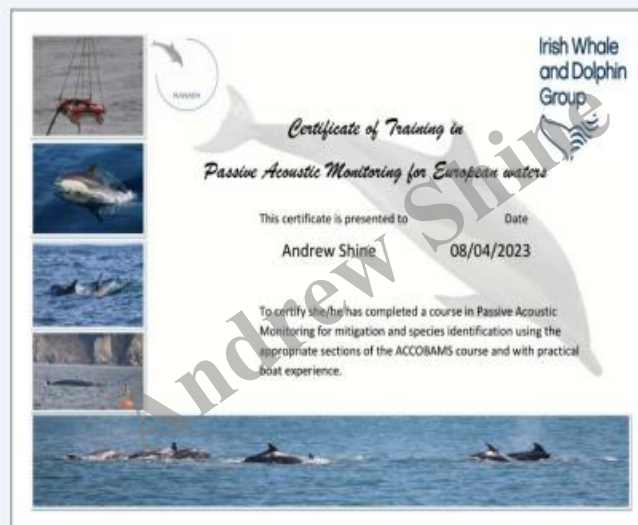
✉ andrewj.shine@gmail.com

Education

- **B. Sc., Marine Science**
 - National University of Ireland, Galway **2013 – 2017**
- **Further Training / Certification**
 - Marine Mammal Surveying & Photo Identification
 - BOSIET, SST, ENG 11, SAFEPASS, Working from Heights

Relevant Work History & Research Experience

Eight years' experience on OSW, Piling, Geophysical, Geotechnical, Seismic, Cable Laying, UXO, Dredging, Trenching, and more. Please contact if further details are required, email preferred.



FIONA CUMMINS (MSc)

Marine Mammal Observer (JNCC) & Passive Acoustic Monitoring Operator (OSC)

PROFESSIONAL PROFILE

JNCC-certified MMO with over six years of experience delivering marine mammal mitigation for geotechnical, geophysical, dredging and piling operations in compliance with regulations. Proven ability to work independently offshore, communicate mitigation requirements clearly to vessel crews and project managers, and produce high-quality technical reports for clients, regulators and developers.

KEY SKILLS

- Visual & acoustic marine mammal monitoring
 - Marine mammal mitigation & regulatory compliance
 - Offshore operations & vessel-based work
 - PAMGuard and CPOD acoustic data analysis
 - Technical reporting & GIS mapping
 - Client and crew communication
-

PROFESSIONAL EXPERIENCE

Freelance Marine Mammal Observer | 2019 – Present

Contracted via: IWDG Consulting, Mizen Archaeology, UCD

Clients: Dublin Port Company, Shannon Foynes Port Company, Rosslare Europort, ESB Moneypoint, Aughinish Alumina, Codling Wind Farm, SSE Renewables

Key Contractors: Fugro, Causeway Geotech, Boskalis, Dutch Dredging, Van den Herik, Fastnet Shipping, Green Rebel, Hydromaster, Hydro Survey, Murphy International

Responsibilities & Achievements:

- Implemented MMO mitigation and PAM monitoring in line with national guidelines and project-specific licenses
- Coordinated pre-start watches, soft starts, and crew workflows to minimize operational delays and ensure environmental compliance
- Deployed and maintained static and towed PAM equipment
- Produced daily updates and comprehensive final MMO/PAM reports for clients and regulators
- Conducted mitigation for high-energy activities including piling and controlled airgun use

Selected Relevant Projects:

- **Geotechnical Surveys:** Codling Wind Farm (*Fugro*, 2023), Rosslare Europort ORE Hub (*Causeway*, 2023–2024), DPC MP2 (*Causeway*, 2026), GNI Strategic Gas Reserve Project (*Causeway*, 2026)

- **Geophysical Surveys:** PISCES Subsea Cable System Project (*GeoTeam*, 2026), Aghinish Alumina (*Hydromaster*, 2025), Shannon Foynes Port (*Hydro Survey*, 2024)
- **Dredging Operations:** Dublin Port (*Boskalis, Dutch Dredging, Van den Herik*, 2019, 2020, 2024 & 2025), Shannon Foynes Port (*Dutch Dredging*, 2024)
- **Piling & High-Energy Activities:** Dublin Port ABR project (*Murphy International*, 2023), UCD research project, controlled airgun mitigation (2020)

Research & Statutory Surveys:

- IMMERSE and the 100m contour surveys onboard the Celtic Voyager & Explorer (*Marine Institute & ATU*, 2019 & 2023)
- Faroese NASS survey – MMO (*Faroese Marine Institute*, 2024)
- Rockabill to Dalkey Island SAC porpoise monitoring surveys (IWDG / NPWS, 2021)
- Baseline line-transect surveys for Parkwind Oriel Windfarm, Irish Sea (IWDG, 2019)

CERTIFICATIONS

Marine & Environmental

- JNCC Certified MMO (2018)
- Passive Acoustic Monitoring Operator – OSC (2024)
- Protected Species Observer – OSC (2024)

Offshore & Safety

- BOSIET, Personal Survival Training, ENG1 1 Seafarer Medical
- Manual Handling, SafePass, Working at Heights

Additional

- PADI Open Water Diver, Full clean driver's licence

EDUCATION

- MSc Conservation Behaviour – Atlantic Technological University (GMT), 2018–2019, First Class Honours
- BSc Zoology & Molecular and Cell Biology – University College Dublin, 2013–2017, First Class Honours

SCIENCE COMMUNICATION & OUTREACH

- Delivered marine mammal ID teaching module at undergraduate level (2022-2023)
 - Co-hosted and moderated a student webinar series with invited researchers and practitioners (2021-2022)
 - Conference presentations: UKIRSC Student Conference (2022), Dublin Bay Biosphere webinar (2021), World Marine Mammal Conference poster (2019)
 - Media: TG4 documentary interview on Dublin Bay harbour porpoise (2021)
-

TESSA VAN DER ERVE

Galway, Ireland WhatsApp: +31 614 539 747 tessvandereve@gmail.com

PROFESSIONAL SUMMARY

Dedicated and dynamic Marine Biologist with a strong foundation in marine and freshwater biology, complemented by prior experience as a veterinary nurse. Proven expertise in marine mammal observation, data analysis, and environmental conservation. Adept at leading research initiatives, providing consultancy on marine mammal activity, and contributing to large-scale conservation projects. Passionate about advancing marine science and committed to the preservation of marine ecosystems.

CORE COMPETENCIES

- | | |
|-------------------------|-------------------|
| - Public speaking | - Adaptability |
| - Research and analysis | - Problem solving |
| - Multitasking | - Dependability |

PROFESSIONAL EXPERIENCE

Independent Marine Mammal Observer (MMO) & Lead MMO

Ireland | August 2022 – Present

Independent Marine Mammal Observer (MMO) and Lead MMO providing environmental monitoring and mitigation services for marine infrastructure, dredging, piling, drilling and site investigation projects throughout Ireland. Experienced in delivering marine mammal mitigation in accordance with NPWS guidance and project-specific environmental management plans while working closely with clients, contractors and regulatory stakeholders.

Key Responsibilities

- Conduct marine mammal observations and mitigation during offshore and coastal construction activities, including dredging, piling, drilling and marine site investigations.
- Deliver real-time mitigation advice, including pre-start monitoring, soft-start procedures, shutdown recommendations and environmental risk assessments.
- Ensure compliance with NPWS guidance, licence conditions and project-specific environmental management plans.
- Produce detailed observation logs, daily reports and technical documentation for clients and regulatory requirements.
- Lead MMO teams on complex marine construction projects, coordinating mitigation strategies during high-risk operations.
- Liaise with contractors, project managers, environmental consultants and client representatives to ensure environmental compliance throughout operations.

Representative Projects

- **2026** – Strategic Gas Emergency Reserve (SGER), Marine Site Investigation Works – MMO
- **2025** – Fenit Harbour Dredging – MMO
- **2025** – Dublin Port Company B30–31 Piling Works – Lead MMO

TESSA VAN DER ERVE

Galway, Ireland WhatsApp: +31 614 539 747 tessvandereve@gmail.com

- **2024** – Dublin Port (IWDG) – MMO
- **2024** – RUSAL Aughinish Alumina – Maintenance Dredging – Lead MMO
- **2022–2023** – Smooth Point Pier Extension, Killybegs – Lead MMO
- **2022** – Dublin Port Company – Dredging & Drilling – MMO

Marine mammal Researcher - January 2026 to May 2026 Whale watch Kaikoura Research department, New Zealand

- Conducted vessel-based surveys and photo-ID analysis of sperm whales to support long-term population monitoring.
 - Collected behavioural and sighting data during cetacean surveys and managed research records in scientific databases.
 - Observed wildlife behaviors and shared documented video and pictures with scientific community for population monitoring
 - Applied field research techniques including visual surveys, Photo-Identification, and data archiving in a marine research setting.
-

Marine mammal research Assistant - February 2022 to June 2022 Húsavík Research Centre, Húsavík, Iceland

- Conducted systematic marine mammal surveys, collecting and analysing photo-identification and behavioural data.
- Collected and processed observational data from whale-watching platforms, contributing to ongoing long-term research programmes.

Research Assistant - July 2020 – August 2020 Archipelagos Institute of Marine Conservation, Greece

- Conducted cetacean monitoring surveys in the eastern Aegean Sea, recording distribution and behaviour.
- Collected and analysed environmental parameters, passive acoustic data, seabird observations, and photo-identification catalogues.
- Contributed to marine ecology research, including macroinvertebrate biodiversity assessments and seagrass health monitoring.

EDUCATION AND TRAINING

Master's in marine animal Ecology - Wageningen University and Research, Wageningen; Graduated May 2026.

Bachelor's in applied Freshwater and Marine Biology - Atlantic Technological University, Galway; September 2019 – October 2022 Graduated with Merit Grade 1.1

Veterinary Nurse Degree - Paraveterinary College, Utrecht, Netherlands; January 2017 – January 2019 Graduated

- **Marine Mammal Observer (JNCC Certified)** – March 2022
- **Small Powerboat License** – January 2022 (Galway)
- **Personal Survival Certificate STCW (PST)** – January 2022 (Seamanship Centre, Galway)
- **ENG11 seafarers medical certification** – Renewed February 2025

Rónán Berrow

Curriculum Vitae

Address: ~~Enagh, Moyasta, Kilrush, Co. Clare~~

Mobile: +353 89 2494542

Email: ronanberrow@gmail.com

Education

2022 – Present **Nautical Science BSc** National Maritime College of Ireland, Co. Cork

2021 **Leaving Certificate – 468 Points** ~~Kilrush~~ Community School, Co. Clare

Survey Experience

- 2025 Celtic Mist Survey: August 16th – 23rd Surveying Leg 14 Dingle to Dingle covering the ~~Blaskets~~. Species recorded: Common dolphin, Bottlenose dolphin, Harbour porpoise, Minke whale, ~~Rissos~~ dolphin, Grey seal. Use of LOGGER.
- 2022 – Present IWDG Consultancy: Bottlenose Dolphin surveys in the Lower River Shannon SAC and West Connaught Coast SAC on behalf of NPWS Circa 10 days.
- 2020 – Present Irish Basking Shark Group: Participating in Basking Shark Tagging and DNA sampling of both feeding and in a torus off Counties Kerry and Clare. Circa 20 days.
- 2019 IWDG Humpback Whale Expedition: April 2019 Surveying off Cape Verde islands for Humpback whales to obtain Fluke Photo ID and DNA and Blubber samples using a crossbow.
- 2018 IWDG Humpback Whale Expedition: 4 weeks in June member of IWDG surveying Humpback Whales for 3 legs around Iceland onboard Celtic Mist including Fluke Photo ID. August 1 week leg sailing from Iceland to Derry via Faroes and Hebrides, species recorded included Long-Finned Pilot whale, Common dolphin, White-beaked Dolphin, Northern Bottlenose Whale, Blue Whale, Humpback Whale.
- 2016 – Present Shannon Dolphin Project: Bottlenose Dolphin survey transects of the Lower River Shannon SAC on behalf of IWDG. Dorsal Fin ID pictures and behavioural observations. Deployment and recovery of SAM. Circa 25 days

Additional Qualifications & Experience

- JNCC MMO Course
- Irish Sailing Commercial Endorsement 2021-2022
 - Advanced Powerboat Certificate
 - Coastal Navigation Course
 - STCW Sea Survival Course
 - STCW First Aid Course
 - STCW Fire Prevention Course
 - VHF SRC Course
 - ENG11
 - 12 Passenger Master ticket night and day
 - STCW Designated Security Duties
 - STCW Firefighting
- Irish Sailing Powerboat Instructor
- Irish Sailing Dinghy Instructor
- Safe Pass Course (Expires Sept 2025)
- Rebuilt a 19ft Fastworker bulkheads, frame and deck to standards required for a P4 Passenger license.
- Sailing on deliveries and research trips including a 6 day sail from Greystones, Co. Wicklow to Lagos, Portugal on a Beneteau 41.1.

Skills Profile

IT - Microsoft Word, Powerpoint

Teamwork – Working to assist Skipper/Captain/Crew, Volunteering dinghy sailing

Communications – Developed communication and interpersonal skills managing crew and passengers aboard vessels and organising dinghy club sailing.

Languages – English (Mother tongue)

Driving License – Full Irish

Referees

Dr Simon Berrow, CEO IWDG, Kilrush, Co. Clare +353 86 8545450

Mr Cathal Blunnie, Master/Owner, Offshore 105, Doonbeg, Co. Clare +353 83 1107613

Appendix II. NPWS Effort Form

Type of operation or activity	Date	Marine Mammal Observer	Time you began monitoring for marine mammals	Time you stopped monitoring for marine mammals	Duration of Watch	Duration of the sound-producing operation/ activity while you were monitoring for marine mammals	Start Lat, Long (Degrees Minutes)	End Lat, Long (Degrees, Minutes)	Wind direction & Beaufort wind force	Sea State	Swell height	Visibility	Comments
Sparker	17/02/2026	AS	10:43:00	12:37:00	1:54:00	0:40:00	52° 36.875', - 9° 6.308'	52° 38.52', -9° 6.428'	SE4	3	0	H	PW Completed
Sparker	17/02/2026	AS	14:28:00	14:45:00	0:17:00	0:00:00	52° 37.095', - 9° 9.34'	52° 36.884', - 9° 10.449'	SE4	3	L	H	PW. Animals - S1
Sparker	17/02/2026	AS	15:18:00	16:40:00	1:22:00	0:40:00	52° 36.652', - 9° 11.534'	52° 38.025', - 9° 7.044'	SE4	3	L	H	PW Restarted, Completed
Sparker	18/02/2026	AS	8:16:00	9:15:00	0:59:00	0:59:00	52° 36.941', - 9° 6.838'	52° 37.031', - 9° 9.35'	W3	2	L	H	
Sparker	18/02/2026	AS	9:15:00	10:15:00	1:00:00	1:00:00	52° 37.031', - 9° 9.35'	52° 37.295', - 9° 8.681'	W3	2	L	H	
Sparker	18/02/2026	AS	10:15:00	11:15:00	1:00:00	1:00:00	52° 37.295', - 9° 8.681'	52° 37.364', - 9° 8.9'	W3	2	L	H	
Sparker	18/02/2026	AS	11:15:00	12:15:00	1:00:00	0:00:00	52° 37.364', - 9° 8.9'	52° 37.114', - 9° 9.329'	W2	2	L	G	

Sparker	18/02/2026	AS	12:15:00	13:05:00	0:50:00	0:00:00	52° 37.114', - 9° 9.329'	52° 36.343', - 9° 11.107'	W2	2	L	G	
Sparker	18/02/2026	AS	13:05:00	13:45:00	0:40:00	0:40:00	52° 36.343', - 9° 11.107'	52° 37.253', - 9° 9.158'	W2	2	L	H	SS 40 Minutes
Sparker	18/02/2026	AS	15:35:00	16:39:00	1:04:00	1:04:00	52° 38.661', - 9° 6.674'	52° 38.128', - 9° 7.013'	NW3	2	0	H	
Sparker	18/02/2026	AS	16:39:00	17:19:00	0:40:00	0:40:00	52° 38.128', - 9° 7.013'	52° 38.431', - 9° 7.387'	NW3	2	0	H	SS 40 Minutes
Sparker	19/02/2026	AS	8:10:00	8:59:00	0:49:00	0:00:00	52° 37.551', - 9° 8.142'	52° 37.665', - 9° 7.8'	NW4	3	L	G	
Sparker	19/02/2026	AS	8:59:00	9:39:00	0:40:00	0:40:00	52° 37.665', - 9° 7.8'	52° 37.831', - 9° 8.284'	NW5	4	L	G	
Sparker	19/02/2026	AS	9:39:00	10:38:00	0:59:00	0:59:00	52° 37.831', - 9° 8.284'	52° 38.123', - 9° 7.297'	NW5	4	L	G	SS 40 Minutes
Sparker	19/02/2026	AS	11:36:00	12:31:00	0:55:00	0:00:00	52° 37.778', - 9° 8.376'	52° 38.207', - 9° 7.648'	NW4	3	L	H	
Sparker	19/02/2026	AS	12:31:00	13:11:00	0:40:00	0:40:00	52° 38.207', - 9° 7.648'	52° 38.833', - 9° 6.248'	NW4	3	L	H	SS 40 Minutes
Sparker	19/02/2026	AS	13:11:00	14:11:00	1:00:00	1:00:00	52° 38.833', - 9° 6.248'	52° 38.469', - 9° 5.884'	NW4	3	L	H	
Sparker	19/02/2026	AS	14:11:00	15:11:00	1:00:00	1:00:00	52° 38.469', - 9° 5.884'	52° 37.958', - 9° 7.565'	NW4	3	L	H	
Sparker	20/02/2026	AS	7:37:00	8:32:00	0:55:00	0:00:00	52° 37.023', - 9° 7.205'	52° 38.438', - 9° 6.565'	SW3	2	0	G	

Sparker	20/02/2026	AS	8:32:00	9:12:00	0:40:00	0:40:00	52° 38.438', - 9° 6.565'	52° 37.898', - 9° 8.058'	SW4	3	0	H	
Sparker	20/02/2026	AS	9:12:00	10:12:00	1:00:00	1:00:00	52° 37.898', - 9° 8.058'	52° 38.085', - 9° 7.629'	SW4	3	0	H	Casual watch, sea state 5
Sparker	20/02/2026	AS	15:22:00	16:22:00	1:00:00	1:00:00	52° 37.903', - 9° 6.748'	52° 38.73', -9° 6.648'	SW5	4	L	H	
Sparker	20/02/2026	AS	16:22:00	17:48:00	1:26:00	1:26:00	52° 38.73', -9° 6.648'	52° 37.988', - 9° 7.695'	SW4	3	0	H	
Sparker	23/02/2026	AS	8:27:00	9:11:00	0:44:00	0:00:00	52° 37.032', - 9° 7.313'	52° 38.387', - 9° 6.061'	SW2	2	0	G	SS 40 Minutes
Sparker	23/02/2026	AS	9:11:00	9:51:00	0:40:00	0:40:00	52° 38.387', - 9° 6.061'	52° 38.664', - 9° 5.492'	SW2	2	0	G	
Sparker	23/02/2026	AS	9:51:00	10:51:00	1:00:00	1:00:00	52° 38.664', - 9° 5.492'	52° 38.595', - 9° 6.614'	SW3	2	0	M	
Sparker	23/02/2026	AS	10:51:00	11:51:00	1:00:00	1:00:00	52° 38.595', - 9° 6.614'	52° 38.427', - 9° 6.671'	SW3	3	0	M	
Sparker	23/02/2026	AS	11:51:00	12:51:00	1:00:00	1:00:00	52° 38.427', - 9° 6.671'	52° 38.104', - 9° 7.434'	SW3	3	0	M	
Sparker	23/02/2026	AS	12:51:00	13:51:00	1:00:00	1:00:00	52° 38.104', - 9° 7.434'	52° 38.516', - 9° 7.183'	SW3	3	0	G	
Sparker	23/02/2026	AS	13:51:00	14:01:00	0:10:00	0:10:00	52° 38.516', - 9° 7.183'	52° 38.728', - 9° 6.667'	SW3	3	0	H	
Sparker	23/02/2026	AS	14:01:00	14:14:00	0:13:00	0:00:00	52° 38.728', - 9° 6.667'	52° 38.012', - 9° 6.937'	SW3	3	0	H	SS 40 Minutes

Sparker	23/02/2026	AS	14:14:00	14:54:00	0:40:00	0:40:00	52° 38.012', - 9° 6.937'	52° 38.108', - 9° 6.655'	SW3	3	0	H	
Sparker	23/02/2026	AS	14:54:00	16:45:00	2:00:00	2:00:00	52° 38.108', - 9° 6.655'	52° 38.385', - 9° 7.271'	SW3	3	0	H	
Sparker	24/02/2026	AS	10:09:00	10:50:00	0:41:00	0:00:00	52° 37.032', - 9° 7.321'	52° 38.76', -9° 6.147'	S3	3	0	H	SS 40 Minutes
Sparker	24/02/2026	AS	10:50:00	11:30:00	0:40:00	0:40:00	52° 38.76', -9° 6.147'	52° 38.593', - 9° 6.018'	S3	3	0	H	
Sparker	24/02/2026	AS	11:30:00	12:26:00	0:56:00	0:56:00	52° 38.593', - 9° 6.018'	52° 38.427', - 9° 6.798'	S4	4	0	H	
Sparker	24/02/2026	AS	12:26:00	12:42:00	0:16:00	0:00:00	52° 38.427', - 9° 6.798'	52° 38.584', - 9° 6.043'	SW4	4	0	H	SS 40 Minutes
Sparker	24/02/2026	AS	12:42:00	13:22:00	0:40:00	0:40:00	52° 38.584', - 9° 6.043'	52° 38.229', - 9° 6.7'	SW4	4	0	H	
Sparker	24/02/2026	AS	13:22:00	14:22:00	1:00:00	1:00:00	52° 38.229', - 9° 6.7'	52° 38.268', - 9° 6.568'	SW3	3	0	H	
Sparker	24/02/2026	AS	15:27:00	16:20:00	0:53:00	0:00:00	52° 37.53', -9° 8.368'	52° 37.988', - 9° 7.693'	SW3	3	0	H	
Sparker	24/02/2026	AS	16:20:00	17:00:00	0:40:00	0:40:00	52° 37.988', - 9° 7.693'	52° 38.42', -9° 6.374'	SW3	3	0	H	SS 40 Minutes
Sparker	24/02/2026	AS	17:00:00	17:49:00	0:49:00	0:49:00	52° 38.42', -9° 6.374'	52° 38.639', - 9° 7.078'	SW4	3	0	H	
MBES	27/02/2026	AS	10:35:00	11:13:00	0:38:00	0:00:00	52° 36.84', -9° 6.72'	52° 37.23', -9° 7.638'	NW2	2	0	H	
MBES	27/02/2026	AS	11:13:00	12:13:00	1:00:00	1:00:00	52° 37.23', -9° 7.638'	52° 38.064', - 9° 6.924'	NW2	2	0	H	

MBES	27/02/2026	AS	12:13:00	13:13:00	1:00:00	1:00:00	52° 38.064', - 9° 6.924'	52° 38.496', - 9° 6.654'	N3	3	0	H	
MBES	27/02/2026	AS	13:13:00	14:13:00	1:00:00	1:00:00	52° 38.496', - 9° 6.654'	52° 38.322', - 9° 7.524'	N3	3	0	H	
MBES	27/02/2026	AS	14:13:00	15:13:00	1:00:00	1:00:00	52° 38.322', - 9° 7.524'	52° 38.718', - 9° 7.02'	NW2	2	0	H	
MBES	27/02/2026	AS	15:13:00	15:25:00	0:12:00	0:12:00	52° 38.718', - 9° 7.02'	52° 38.742', - 9° 6.9'	W3	3	0	H	
SBP	09/03/2026	AS	11:40:00	12:11:00	0:31:00	0:00:00	52° 36.8478', -9° 6.7164'	52° 36.8478', -9° 6.7164'	SW3	3	L	H	
SBP	09/03/2026	AS	12:11:00	12:31:00	0:20:00	0:20:00	52° 36.8478', -9° 6.7164'	52° 36.966', - 9° 6.948'	SW3	3	L	H	
SBP	09/03/2026	AS	12:31:00	13:31:00	1:00:00	1:00:00	52° 36.966', - 9° 6.948'	52° 38.235', - 9° 6.684'	SW3	3	L	H	
SBP	09/03/2026	AS	13:31:00	14:31:00	1:00:00	1:00:00	52° 38.235', - 9° 6.684'	52° 37.992', - 9° 7.536'	SW4	4	L	H	
SBP	09/03/2026	AS	14:31:00	15:31:00	1:00:00	1:00:00	52° 37.992', - 9° 7.536'	52° 38.1', -9° 7.6494'	SW4	4	L	H	
SBP	09/03/2026	AS	15:31:00	15:50:00	0:19:00	0:19:00	52° 38.1', -9° 7.6494'	52° 38.352', - 9° 6.912'	SW4	3	L	H	
SBP	10/03/2026	AS	7:45:00	8:19:00	0:34:00	0:00:00	52° 36.846', - 9° 6.717'	52° 36.846', - 9° 6.717'	SW2	2	0	H	
SBP	10/03/2026	AS	8:19:00	8:39:00	0:20:00	0:20:00	52° 36.846', - 9° 6.717'	52° 37.2582', -9° 7.5744'	SW2	2	0	H	

SBP	10/03/2026	AS	8:39:00	9:39:00	1:00:00	1:00:00	52° 37.2582', -9° 7.5744'	52° 38.532', - 9° 5.74542'	SW3	3	L	H	
SBP	10/03/2026	AS	9:39:00	10:39:00	1:00:00	1:00:00	52° 38.532', - 9° 5.74542'	52° 38.12766', -9° 6.59082'	SW3	3	L	H	
SBP	10/03/2026	AS	10:39:00	11:39:00	1:00:00	1:00:00	52° 38.12766', -9° 6.59082'	52° 38.046', - 9° 6.93816'	SW3	3	L	H	
SBP	10/03/2026	AS	11:39:00	12:39:00	1:00:00	1:00:00	52° 38.046', - 9° 6.93816'	52° 38.202', - 9° 6.702'	SW3	3	L	H	
SBP	10/03/2026	AS	12:39:00	12:48:00	0:09:00	0:09:00	52° 38.202', - 9° 6.702'	52° 37.542', - 9° 7.704'	SW3	3	L	H	
SBP	10/03/2026	AS	12:55:00	13:27:00	0:32:00	0:00:00	52° 36.846', - 9° 6.717'	52° 36.9', -9° 6.762'	SW2	2	0	H	
SBP	10/03/2026	AS	13:27:00	13:47:00	0:20:00	0:20:00	52° 36.9', -9° 6.762'	52° 37.866', - 9° 7.524'	SW4	4	L	H	
SBP	10/03/2026	AS	13:47:00	14:47:00	1:00:00	1:00:00	52° 37.866', - 9° 7.524'	52° 38.004', - 9° 7.338'	SW4	4	M	H	
SBP	10/03/2026	AS	14:47:00	15:21:00	0:34:00	0:34:00	52° 38.004', - 9° 7.338'	52° 38.082', - 9° 7.248'	SW4	4	M	H	
SBP	11/03/2026	AS	7:00:00	7:33:00	0:33:00	0:00:00	52° 36.852', - 9° 6.714'	52° 37.21656', -9° 37.21656'	W3	2	L	H	
SBP	11/03/2026	AS	7:33:00	7:53:00	0:20:00	0:20:00	52° 37.21656', -9° 37.21656'	52° 38.3526', -9° 6.6696'	W3	2	L	H	

SBP	11/03/2026	AS	7:53:00	8:53:00	1:00:00	1:00:00	52° 38.3526', -9° 6.6696'	52° 38.01', -9° 6.972'	W3	3	L	H	
SBP	11/03/2026	AS	8:53:00	9:53:00	1:00:00	1:00:00	52° 38.01', -9° 6.972'	52° 38.1636', -9° 7.029'	NW4	4	M	H	
SBP	11/03/2026	AS	9:53:00	10:53:00	1:00:00	1:00:00	52° 38.1636', -9° 7.029'	52° 38.2818', -9° 7.0014'	NW4	4	M	H	
SBP	11/03/2026	AS	10:53:00	11:39:00	0:46:00	0:46:00	52° 38.2818', -9° 7.0014'	52° 38.511', - 9° 6.71574'	SW5	5	M	H	
SBP	12/03/2026	AS	7:00:00	7:30:00	0:30:00	0:00:00	52° 36.84984', -9° 6.71574'	52° 36.85368', -9° 6.71454'	SW2	2	L	H	
SBP	12/03/2026	AS	7:30:00	7:50:00	0:20:00	0:20:00	52° 36.85368', -9° 6.71454'	52° 38.41968', -9° 6.00648'	SW4	4	M	H	
SBP	12/03/2026	AS	7:50:00	8:06:00	0:16:00	0:16:00	52° 38.41968', -9° 6.00648'	52° 38.067', - 9° 6.98046'	SW5	5	M	H	
SBP	13/03/2026	AS	7:00:00	7:36:00	0:36:00	0:00:00	52° 36.8463', -9° 6.7188'	52° 36.95334', -9° 6.14334'	SW2	2	L	H	
SBP	13/03/2026	AS	7:36:00	7:56:00	0:20:00	0:20:00	52° 36.95334', -9° 6.14334'	52° 38.18328', -9° 38.18328'	W2	2	0	H	
SBP	14/03/2026	AS	6:50:00	7:23:00	0:33:00	0:00:00	52° ', -9° '	52° 36.866', - 9° 6.715'	W2	2	0	H	
SBP	14/03/2026	AS	7:23:00	7:43:00	0:20:00	0:20:00	52° 36.866', - 9° 6.715'	52° 38.641', - 9° 6.359'	W3	2	0	H	

SBP	14/03/2026	AS	7:43:00	8:43:00	1:00:00	1:00:00	52° 38.641', - 9° 6.359'	52° 38.121', - 9° 7.553'	W3	3	0	H	
SBP	14/03/2026	AS	8:43:00	9:43:00	1:00:00	1:00:00	52° 38.121', - 9° 7.553'	52° 38.4894', -9° 6.8148'	W3	3	0	H	
SBP	14/03/2026	AS	9:43:00	10:43:00	1:00:00	1:00:00	52° 38.4894', -9° 6.8148'	52° 38.64654', -9° 6.54276'	W3	3	L	H	
SBP	14/03/2026	AS	10:43:00	11:43:00	1:00:00	1:00:00	52° 38.64654', -9° 6.54276'	52° 38.76408', -9° 6.41634'	W3	3	L	H	
SBP	14/03/2026	AS	11:43:00	12:43:00	1:00:00	1:00:00	52° 38.76408', -9° 6.41634'	52° 38.23356', -9° 7.74336'	W3	3	L	H	
SBP	14/03/2026	AS	12:43:00	13:43:00	1:00:00	1:00:00	52° 38.23356', -9° 7.74336'	52° 38.57442', -9° 6.987'	W4	3	L	H	
SBP	14/03/2026	AS	15:09:00	16:09:00	1:00:00	1:00:00	52° 38.74362', -9° 6.74844'	52° 38.67204', -9° 7.0524'	W4	3	L	H	
SBP	14/03/2026	AS	16:09:00	17:09:00	1:00:00	1:00:00	52° 38.67204', -9° 7.0524'	52° 37.92642', -9° 6.67464'	W4	3	L	H	
USBL	16/03/2026	AS	7:30:00	8:02:00	0:32:00	0:00:00	52° 36.84852', -9° 6.69726'	52° 38.37858', -9° 6.54888'	W4	3	L	H	
USBL	16/03/2026	AS	8:02:00	8:34:00	0:32:00	0:32:00	52° 38.37858', -9° 6.54888'	52° 38.37858', -9° 6.54888'	W4	3	L	H	
USBL	16/03/2026	AS	9:30:00	10:04:00	0:34:00	0:00:00	52° 36.8508', -9° 6.62838'	52° 37.51218', -9° 5.68494'	W4	3	L	H	

USBL	16/03/2026	AS	10:04:00	10:24:00	0:20:00	0:20:00	52° 37.51218', -9° 5.68494'	52° 38.36766', -9° 6.51396'	W4	3	L	H	
USBL	16/03/2026	AS	10:24:00	11:24:00	1:00:00	1:00:00	52° 38.36766', -9° 6.51396'	52° 38.37468', -9° 6.51774'	SW4	3	L	H	
USBL	16/03/2026	AS	11:24:00	12:24:00	1:00:00	1:00:00	52° 38.37468', -9° 6.51774'	52° 38.41356', -9° 38.41356'	SW4	3	L	H	
USBL	16/03/2026	AS	12:24:00	13:24:00	1:00:00	1:00:00	52° 38.41356', -9° 38.41356'	52° 38.42682', -9° 7.22604'	SW4	3	L	H	
USBL	16/03/2026	AS	13:24:00	14:34:00	1:10:00	1:10:00	52° 38.42682', -9° 7.22604'	52° 38.50188', -9° 7.0623'	SW4	3	L	H	
USBL	16/03/2026	AS	14:34:00	15:01:00	0:27:00	0:27:00	52° 38.50188', -9° 7.0623'	52° 38.2269', -9° 7.56372'	SW4	4	L	H	
USBL	16/03/2026	AS	15:25:00	15:56:00	0:31:00	0:00:00	52° 36.84894', -9° 6.71958'	52° 38.0553', -9° 7.32156'	SW4	4	L	H	
USBL/SSS	16/03/2026	AS	15:56:00	16:16:00	0:20:00	0:20:00	52° 38.0553', -9° 7.32156'	52° 37.69536', -9° 7.82112'	SW4	4	L	H	
USBL/SSS	16/03/2026	AS	16:16:00	17:17:00	1:01:00	1:01:00	52° 37.69536', -9° 7.82112'	52° 38.38716', -9° 6.26748'	SW4	4	L	H	
USBL/SSS	16/03/2026	AS	17:17:00	17:43:00	0:26:00	0:26:00	52° 38.38716', -9° 6.26748'	52° 37.6773', -9° 7.67676'	SW4	4	L	H	

USBL/SSS	17/03/2026	AS	7:44:00	8:24:00	0:40:00	0:00:00	52° 36.84702', -9° 6.71754'	52° 37.80084', -9° 7.53048'	SW3	3	L	H	
USBL/SSS	17/03/2026	AS	8:24:00	8:44:00	0:20:00	0:20:00	52° 37.80084', -9° 7.53048'	52° 38.13864', -9° 6.73932'	SW4	4	M	H	
USBL/SSS	17/03/2026	AS	8:44:00	9:44:00	1:00:00	1:00:00	52° 38.13864', -9° 6.73932'	52° 38.53266', -9° 6.06336'	SW4	4	M	H	
USBL/SSS	17/03/2026	AS	9:44:00	10:44:00	1:00:00	1:00:00	52° 38.53266', -9° 6.06336'	52° 38.2299', -9° 6.7572'	SW4	4	M	H	
USBL/SSS	17/03/2026	AS	10:44:00	11:44:00	1:00:00	1:00:00	52° 38.2299', -9° 6.7572'	52° 38.09436', -9° 7.26558'	W4	3	M	H	
USBL/SSS	17/03/2026	AS	11:44:00	12:44:00	1:00:00	1:00:00	52° 38.09436', -9° 7.26558'	52° 38.33034', -9° 6.78558'	W4	3	M	H	
USBL/SSS	17/03/2026	AS	12:44:00	13:44:00	1:00:00	1:00:00	52° 38.33034', -9° 6.78558'	52° 38.67186', -9° 5.88708'	W4	3	L	H	
USBL/SSS	17/03/2026	AS	13:44:00	14:44:00	1:00:00	1:00:00	52° 38.67186', -9° 5.88708'	52° 38.202', - 9° 7.68096'	W3	3	L	G	
USBL/SSS	17/03/2026	AS	14:44:00	15:44:00	1:00:00	1:00:00	52° 38.202', - 9° 7.68096'	52° 38.26146', -9° 6.3003'	W3	3	L	G	
USBL/SSS	17/03/2026	AS	15:44:00	16:44:00	1:00:00	1:00:00	52° 38.26146', -9° 6.3003'	52° 38.15202', -9° 7.35906'	W3	3	L	G	
USBL/SSS	17/03/2026	AS	16:44:00	17:44:00	1:00:00	1:00:00	52° 38.15202', -9° 7.35906'	52° 38.0946', -9° 7.54614'	W3	2	L	H	

USBL/SSS	17/03/2026	AS	17:44:00	18:16:00	0:32:00	0:32:00	52° 38.0946', -9° 7.54614'	52° 37.93806', -9° 7.8909'	W3	2	L	H	
USBL/SSS	18/03/2026	AS	8:10:00	8:57:00	0:47:00	0:00:00	52° 36.852', - 9° 36.852'	52° 38.178', - 9° 7.47'	SW2	2	0	H	
USBL/SSS	18/03/2026	AS	8:57:00	9:17:00	0:20:00	0:20:00	52° 38.178', - 9° 7.47'	52° 37.938', - 9° 7.86'	SE3	2	0	H	
USBL/SSS	18/03/2026	AS	9:17:00	10:17:00	1:00:00	1:00:00	52° 37.938', - 9° 7.86'	52° 38.508', - 9° 6.744'	SE3	2	0	H	
USBL/SSS	18/03/2026	AS	10:17:00	11:17:00	1:00:00	1:00:00	52° 38.508', - 9° 6.744'	52° 38.25', -9° 7.512'	SE3	2	0	H	
USBL/SSS	18/03/2026	AS	11:17:00	12:17:00	1:00:00	1:00:00	52° 38.25', -9° 7.512'	52° 38.58', -9° 6.936'	SE2	2	0	H	
USBL/SSS	18/03/2026	AS	12:17:00	13:17:00	1:00:00	1:00:00	52° 38.58', -9° 6.936'	52° 38.658', - 9° 6.906'	SE2	2	L	H	
USBL/SSS	18/03/2026	AS	13:17:00	13:30:00	0:13:00	0:13:00	52° 38.658', - 9° 6.906'	52° 38.3928', -9° 6.36'	NE3	2	L	H	
USBL/SSS	18/03/2026	AS	14:00:00	14:30:00	0:30:00	0:00:00	52° 36.846', - 9° 6.708'	52° 38.754', - 9° 6.48'	NE2	2	L	H	
USBL/SSS	18/03/2026	AS	14:30:00	14:50:00	0:20:00	0:20:00	52° 38.754', - 9° 6.48'	52° 38.694', - 9° 6.342'	NE3	2	L	H	
USBL/SSS	18/03/2026	AS	14:50:00	15:50:00	1:00:00	1:00:00	52° 38.694', - 9° 6.342'	52° 38.742', - 9° 6.5988'	SE3	2	L	H	
USBL/SSS	18/03/2026	AS	15:50:00	16:50:00	1:00:00	1:00:00	52° 38.742', - 9° 6.5988'	52° 38.66286', -9° 6.8865'	SE3	2	L	H	

USBL/SSS	18/03/2026	AS	16:50:00	17:50:00	1:00:00	1:00:00	52° 38.66286', -9° 6.8865'	52° 38.628', - 9° 6.9456'	NE3	2	L	H	
USBL/SSS	18/03/2026	AS	17:50:00	18:07:00	0:17:00	0:17:00	52° 38.628', - 9° 6.9456'	52° 38.39286', -9° 7.3368'	NE3	2	L	H	
USBL/SSS	19/03/2026	AS	7:38:00	8:09:00	0:31:00	0:00:00	52° 36.84684', -9° 6.71604'	52° 38.22234', -9° 7.56606'	NE2	2	L	H	
USBL	19/03/2026	AS	8:09:00	8:29:00	0:20:00	0:20:00	52° 38.22234', -9° 7.56606'	52° 38.016', - 9° 7.854'	NE2	2	L	H	
USBL	19/03/2026	AS	8:29:00	9:29:00	1:00:00	1:00:00	52° 38.016', - 9° 7.854'	52° 38.652', - 9° 6.642'	NE2	2	L	H	
USBL	19/03/2026	AS	9:29:00	10:29:00	1:00:00	1:00:00	52° 38.652', - 9° 6.642'	52° 38.58', -9° 6.378'	NE3	2	L	H	
USBL	19/03/2026	AS	10:29:00	11:29:00	1:00:00	1:00:00	52° 38.58', -9° 6.378'	52° 38.538', - 9° 6.408'	NE2	1	L	H	
USBL	19/03/2026	AS	11:29:00	11:53:00	0:24:00	0:24:00	52° 38.538', - 9° 6.408'	52° 37.85934', -9° 7.794'	NE2	2	L	H	
USBL	19/03/2026	AS	15:17:00	15:51:00	0:34:00	0:34:00	52° 36.849', - 9° 6.716'	52° 38.382', - 9° 7.218'	SE2	2	L	H	
USBL	19/03/2026	AS	15:51:00	16:51:00	1:00:00	1:00:00	52° 38.382', - 9° 7.218'	52° 38.484', - 9° 6.744'	SE2	2	L	H	
USBL	19/03/2026	AS	16:51:00	17:51:00	1:00:00	1:00:00	52° 38.484', - 9° 6.744'	52° 38.339', - 9° 7.078'	SE2	2	L	H	
USBL	19/03/2026	AS	17:51:00	18:25:00	0:34:00	0:34:00	52° 38.339', - 9° 7.078'	52° 38.3', -9° 6.992'	SE2	2	L	H	

USBL/MAG	20/03/2026	AS	7:49:00	8:21:00	0:32:00	0:00:00	52° 36.854', - 9° 6.035'	52° 38.284', - 9° 7.564'	SE1	0	0	H	
USBL/MAG	20/03/2026	AS	8:21:00	9:21:00	1:00:00	1:00:00	52° 38.284', - 9° 7.564'	52° 38.476', - 9° 6.074'	SE1	0	0	H	
USBL/MAG	20/03/2026	AS	9:21:00	10:21:00	1:00:00	1:00:00	52° 38.476', - 9° 6.074'	52° 38.295', - 9° 6.182'	SE1	0	0	H	
USBL/MAG	20/03/2026	AS	10:21:00	11:21:00	1:00:00	1:00:00	52° 38.295', - 9° 6.182'	52° 38.11', -9° 6.672'	SE1	0	0	H	
USBL/MAG	20/03/2026	AS	11:21:00	12:21:00	1:00:00	1:00:00	52° 38.11', -9° 6.672'	52° 38.58', -9° 5.896'	SE1	0	0	H	
USBL/MAG	20/03/2026	AS	12:21:00	13:21:00	1:00:00	1:00:00	52° 38.58', -9° 5.896'	52° 38.057', - 9° 7.017'	SE2	1	0	H	
USBL/MAG	20/03/2026	AS	13:21:00	14:21:00	1:00:00	1:00:00	52° 38.057', - 9° 7.017'	52° 38.356', - 9° 6.37'	SE2	1	0	H	
USBL/MAG	20/03/2026	AS	14:21:00	15:21:00	1:00:00	1:00:00	52° 38.356', - 9° 6.37'	52° 38.539', - 9° 6.418'	SE2	1	0	H	
USBL/MAG	20/03/2026	AS	15:21:00	16:21:00	1:00:00	1:00:00	52° 38.539', - 9° 6.418'	52° 38.563', - 9° 6.373'	NW3	3	0	H	
USBL/MAG	20/03/2026	AS	16:21:00	17:21:00	1:00:00	1:00:00	52° 38.563', - 9° 6.373'	52° 38.31', -9° 9.949'	NW3	3	0	H	
USBL/MAG	20/03/2026	AS	17:21:00	18:21:00	1:00:00	1:00:00	52° 38.31', -9° 9.949'	52° 38.392', - 9° 6.437'	NW3	3	0	H	
USBL/MAG	20/03/2026	AS	18:21:00	18:33:00	0:12:00	0:12:00	52° 38.392', - 9° 6.437'	52° 38.883', - 9° 5.652'	NW3	3	0	H	

USBL/MAG	21/03/2026	AS	7:42:00	8:13:00	0:31:00	0:00:00	52° 36.8555', -9° 6.0332'	52° 37.4804', -9° 7.7508'	SE2	1	0	P	
USBL/MAG	21/03/2026	AS	8:13:00	9:13:00	1:00:00	1:00:00	52° 37.4804', -9° 7.7508'	52° 38.7577', -9° 6.5471'	SE2	1	0	P	
USBL/MAG	21/03/2026	AS	9:13:00	10:13:00	1:00:00	1:00:00	52° 38.7577', -9° 6.5471'	52° 38.6114', -9° 7.0431'	SE2	1	0	M	
USBL/MAG	21/03/2026	AS	10:13:00	11:13:00	1:00:00	1:00:00	52° 38.6114', -9° 7.0431'	52° 38.309', - 9° 6.7288'	SE2	1	0	G	
USBL/MAG	21/03/2026	AS	11:13:00	12:13:00	1:00:00	1:00:00	52° 38.309', - 9° 6.7288'	52° 38.6636', -9° 6.8387'	SE2	1	0	H	
USBL/MAG	21/03/2026	AS	12:13:00	13:13:00	1:00:00	1:00:00	52° 38.6636', -9° 6.8387'	52° 38.4928', -9° 6.3886'	SE2	1	0	H	
USBL/MAG	21/03/2026	AS	13:13:00	14:13:00	1:00:00	1:00:00	52° 38.4928', -9° 6.3886'	52° 38.1619', -9° 7.2012'	SE1	0	0	H	
USBL/MAG	21/03/2026	AS	14:13:00	15:13:00	1:00:00	1:00:00	52° 38.1619', -9° 7.2012'	52° 38.1388', -9° 7.3441'	SE0	0	0	H	
USBL/MAG	21/03/2026	AS	15:13:00	16:13:00	1:00:00	1:00:00	52° 38.1388', -9° 7.3441'	52° 38.1401', -9° 7.5221'	NE0	0	0	H	
USBL/MAG	21/03/2026	AS	16:13:00	17:13:00	1:00:00	1:00:00	52° 38.1401', -9° 7.5221'	52° 38.1556', -9° 7.4552'	NE3	2	0	H	
USBL/MAG	21/03/2026	AS	17:13:00	18:10:00	0:57:00	0:57:00	52° 38.1556', -9° 7.4552'	52° 38.3863', -9° 6.7284'	NE3	2	0	H	

USBL/MAG	22/03/2026	AS	7:42:00	8:14:00	0:32:00	0:00:00	52° 36.8574', -9° 6.036'	52° 38.4169', -9° 7.413'	NE1	1	0	H	
USBL/MAG	22/03/2026	AS	8:14:00	9:14:00	1:00:00	1:00:00	52° 38.4169', -9° 7.413'	52° 38.844', - 9° 6.7296'	NE1	1	0	H	
USBL/MAG	22/03/2026	AS	9:14:00	10:14:00	1:00:00	1:00:00	52° 38.844', - 9° 6.7296'	52° 38.0898', -9° 6.9132'	W3	3	0	H	
USBL/MAG	22/03/2026	AS	10:14:00	11:14:00	1:00:00	1:00:00	52° 38.0898', -9° 6.9132'	52° 38.136', - 9° 7.395'	W3	3	0	H	
USBL/MAG	22/03/2026	AS	11:14:00	12:14:00	1:00:00	1:00:00	52° 38.136', - 9° 7.395'	52° 38.571', - 9° 6.5495'	W3	3	0	M	
USBL/MAG	22/03/2026	AS	12:14:00	13:14:00	1:00:00	1:00:00	52° 38.571', - 9° 6.5495'	52° 38.5602', -9° 6.6504'	N3	2	0	H	
USBL/MAG	22/03/2026	AS	13:14:00	14:14:00	1:00:00	1:00:00	52° 38.5602', -9° 6.6504'	52° 38.451', - 9° 7.2082'	N3	2	0	H	
USBL/MAG	22/03/2026	AS	14:14:00	15:14:00	1:00:00	1:00:00	52° 38.451', - 9° 7.2082'	52° 38.2938', -9° 7.5023'	N3	2	0	H	
USBL/MAG	22/03/2026	AS	15:14:00	16:14:00	1:00:00	1:00:00	52° 38.2938', -9° 7.5023'	52° 38.3202', -9° 7.0194'	N3	2	0	H	
USBL/MAG	22/03/2026	AS	16:14:00	17:06:00	0:52:00	0:52:00	52° 38.3202', -9° 7.0194'	52° 37.9613', -9° 6.9234'	N3	2	0	H	
USBL/MAG	23/03/2026	AS	7:22:00	7:52:00	0:30:00	0:00:00	52° 36.8537', -9° 6.7225'	52° 38.1799', -9° 7.7282'	S1	0	0	H	

USBL/MAG	23/03/2026	AS	7:52:00	8:52:00	1:00:00	1:00:00	52° 38.1799', -9° 7.7282'	52° 38.4253', -9° 7.0995'	S2	2	0	H	
USBL/MAG	23/03/2026	AS	8:52:00	9:52:00	1:00:00	1:00:00	52° 38.4253', -9° 7.0995'	52° 38.7131', -9° 6.4504'	S2	2	0	H	
USBL/MAG	23/03/2026	AS	9:52:00	9:58:00	0:06:00	0:06:00	52° 38.7131', -9° 6.4504'	52° 38.6272', -9° 6.4944'	S2	2	0	H	
USBL	08/04/2026	AS	10:15:00	10:49:00	0:34:00	0:00:00	52° 38.553', - 9° 6.73'	52° 38.553', - 9° 6.73'	SW1	1	0	H	
USBL	08/04/2026	AS	11:40:00	12:00:00	0:20:00	0:20:00	52° 38.553', - 9° 6.73'	52° 38.553', - 9° 6.73'	SW1	1	0	H	
USBL	08/04/2026	AS	12:17:00	13:14:00	0:57:00	0:00:00	52° 38.553', - 9° 6.73'	52° 38.553', - 9° 6.73'	SW2	2	0	H	
USBL	08/04/2026	AS	14:30:00	15:15:00	0:45:00	0:00:00	52° 38.553', - 9° 6.73'	52° 38.553', - 9° 6.73'	W2	2	0	H	
USBL	08/04/2026	AS	16:05:00	16:45:00	0:40:00	0:00:00	52° 38.553', - 9° 6.73'	52° 38.57', -9° 7.16'	W2	3	0	H	
Drilling BH12	05/06/2026	AS	11:04:00	12:16:00	1:12:00	0:26:00	52° 38.57', -9° 7.16'	52° 38.57', -9° 7.16'	SW3	3	L	G	
Drilling BH12	05/06/2026	AS	13:26:00	13:56:00	0:30:00	0:30:00	52° 38.57', -9° 7.16'	52° 38.57', -9° 7.16'	S4	2	L	G	
Drilling BH12	05/06/2026	AS	16:40:00	17:30:00	0:50:00	0:50:00	52° 38.57', -9° 7.16'	52° 38.57', -9° 7.16'	S4	2	L	G	
Drilling BH12	05/06/2026	AS	19:20:00	20:20:00	1:00:00	1:00:00	52° 38.57', -9° 7.16'	52° 38.57', -9° 7.16'	SE4	2	L	G	
CPT BH12	06/06/2026	AS	7:10:00	7:40:00	0:30:00	0:00:00	52° 38.57', -9° 7.16'	52° 38.57', -9° 7.16'	SW3	2	L	G	

CPT BH12	06/06/2026	AS	11:30:00	12:15:00	0:30:00	0:00:00	52° 38.57', -9° 7.16'	52° 38.57', -9° 7.16'	SW5	3	L	G	
Drilling BH13	07/06/2026	AS	10:50:00	11:50:00	0:45:00	0:00:00	52° 38.6045', -9° 7.1828'	52° 38.6045', -9° 7.1828'	SW4	3	L	G	
Drilling BH13	07/06/2026	AS	11:50:00	12:50:00	1:00:00	0:00:00	52° 38.6045', -9° 7.1828'	52° 38.6045', -9° 7.1828'	SW4	3	L	G	
Drilling BH13	07/06/2026	AS	12:50:00	13:50:00	1:00:00	0:00:00	52° 38.6045', -9° 7.1828'	52° 38.6045', -9° 7.1828'	SW4	3	L	G	
Drilling BH13	07/06/2026	AS	13:50:00	14:25:00	1:00:00	0:03:00	52° 38.6045', -9° 7.1828'	52° 38.6045', -9° 7.1828'	SW4	2	L	M	
Drilling BH13	07/06/2026	AS	18:52:00	19:22:00	0:35:00	0:00:00	52° 38.6045', -9° 7.1828'	52° 38.6045', -9° 7.1828'	SW3	3	L	G	
Drilling BH13	07/06/2026	AS	20:30:00	21:30:00	1:00:00	1:00:00	52° 38.6045', -9° 7.1828'	52° 38.6045', -9° 7.1828'	SW3	3	L	G	
Drilling BH13	08/06/2026	AS	9:35:00	10:05:00	0:30:00	0:30:00	52° 38.6045', -9° 7.1828'	52° 38.6045', -9° 7.1828'	W4	3	L	G	
Drilling BH13	08/06/2026	AS	12:40:00	13:40:00	1:00:00	1:00:00	52° 38.6045', -9° 7.1828'	52° 38.6045', -9° 7.1828'	W4	3	L	G	
Drilling BH14	09/06/2026	AS	5:50:00	6:50:00	1:00:00	0:00:00	52° 38.5834', -9° 7.1666'	52° 38.5834', -9° 7.1666'	NW4	3	L	G	
Drilling BH14	09/06/2026	AS	6:50:00	7:50:00	1:00:00	0:00:00	52° 38.5834', -9° 7.1666'	52° 38.5834', -9° 7.1666'	W4	3	L	G	

Drilling BH14	09/06/2026	AS	7:50:00	8:30:00	0:40:00	0:10:00	52° 38.5834', -9° 7.1666'	52° 38.5834', -9° 7.1666'	W4	3	L	G	
Drilling BH14	09/06/2026	AS	12:40:00	13:50:00	1:10:00	1:10:00	52° 38.5834', -9° 7.1666'	52° 38.5834', -9° 7.1666'	W4	2	L	G	
Drilling BH14	09/06/2026	AS	16:55:00	18:10:00	1:15:00	1:15:00	52° 38.5834', -9° 7.1666'	52° 38.5834', -9° 7.1666'	W4	3	L	G	
SRP	09/06/2026	AS	17:34:00	19:02:00	1:28:00	0:00:00	52° 38.35', -9° 7.42'	52° 38.58', -9° 7.26'	W4	3	M	H	
SRP	09/06/2026	AS	19:03:00	19:40:00	0:37:00	0:33:00	52° 38.58', -9° 7.26'	52° 38.58', -9° 7.26'	W4	3	L	H	
Drilling BH14	09/06/2026	AS	20:39:00	21:14:00	0:35:00	0:00:00	52° 38.5834', -9° 7.1666'	52° 38.5834', -9° 7.23'	W3	2	L	H	
SRP	10/06/2026	AS	6:33:00	7:36:00	1:03:00	0:00:00	52° 38.52', -9° 7.23'	52° 38.64', -9° 7.22'	W3	3	0	H	
SRP	10/06/2026	AS	7:37:00	8:05:00	0:28:00	0:17:00	52° 38.64', -9° 7.21'	52° 38.64', -9° 7.21'	W3	3	0	H	
Drilling BH14	10/06/2026	AS	11:43:00	12:43:00	1:00:00	0:00:00	52° 38.5834', -9° 7.1666'	52° 38.5834', -9° 7.1666'	W4	3	L	H	
Drilling BH14	10/06/2026	AS	12:43:00	13:23:00	0:40:00	0:00:00	52° 38.5834', -9° 7.1666'	52° 38.5834', -9° 7.17'	W4	3	L	H	
SRP	10/06/2026	AS	13:01:00	13:48:00	0:47:00	0:00:00	52° 38.61', -9° 7.17'	52° 38.63', -9° 7.18'	NW4	3	0	H	
SRP	10/06/2026	AS	13:49:00	14:28:00	0:39:00	0:39:00	52° 38.63', -9° 7.18'	52° 38.64', -9° 7.18'	NW4	2	0	H	

Drilling BH15	13/06/2026	AS	8:50:00	9:50:00	1:00:00	0:00:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW3	2	L	H	
Drilling BH15	13/06/2026	AS	9:50:00	10:20:00	0:30:00	0:00:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW3	2	L	H	
Drilling BH15	13/06/2026	AS	10:20:00	10:50:00	0:30:00	0:00:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW3	2	L	H	
Drilling BH15	13/06/2026	AS	10:50:00	11:05:00	0:15:00	0:15:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW3	2	L	H	
Drilling BH15	13/06/2026	AS	12:30:00	13:30:00	1:00:00	1:00:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW3	2	L	H	
Drilling BH15	13/06/2026	AS	13:30:00	14:30:00	1:00:00	1:00:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW3	2	L	H	
Drilling BH15	13/06/2026	AS	15:30:00	16:30:00	1:00:00	1:00:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW3	2	L	H	
Drilling BH15	13/06/2026	AS	16:30:00	17:30:00	1:00:00	1:00:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW2	1	L	H	
Drilling BH15	13/06/2026	AS	17:30:00	18:00:00	0:30:00	0:30:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW2	1	L	H	
Drilling BH15	13/06/2026	AS	18:00:00	19:15:00	1:15:00	0:00:00	52° 38.5579', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW2	1	L	H	
Drilling BH15	13/06/2026	AS	19:20:00	21:50:00	2:30:00	2:30:00	52° 38.56', -9° 7.1482'	52° 38.5579', -9° 7.1482'	NW2	1	L	H	

Drilling BH15	14/06/2026	AS	5:20:00	5:45:00	0:25:00	0:25:00	52° 38.56', -9° 7.1482'	52° 38.5579', -9° 7.1482'	E2	1	L	H	
Drilling BH24	14/06/2026	AS	18:15:00	18:55:00	0:40:00	0:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'		0	0	0	
Drilling BH24	14/06/2026	AS	18:55:00	19:41:00	0:46:00	0:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW2	2	L	H	
Drilling BH24	14/06/2026	AS	19:41:00	20:11:00	0:30:00	0:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW2	2	L	H	
Drilling BH24	14/06/2026	AS	20:27:00	20:59:00	0:32:00	0:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW3	2	L	H	
Drilling BH24	14/06/2026	AS	20:59:00	21:29:00	0:30:00	0:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW3	2	L	H	
Drilling BH24	15/06/2026	AS	4:55:00	6:45:00	1:50:00	1:50:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW2	2	0	G	
Drilling BH24	15/06/2026	AS	7:15:00	8:15:00	1:00:00	1:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW2	2	0	H	
Drilling BH24	15/06/2026	AS	8:30:00	9:30:00	1:00:00	1:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW2	1	0	H	
Drilling BH24	15/06/2026	AS	9:30:00	10:30:00	1:00:00	1:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW2	1	0	H	
Drilling BH24	15/06/2026	AS	11:30:00	12:30:00	1:00:00	1:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	S2	1	0	H	
Drilling BH24	15/06/2026	AS	14:00:00	15:00:00	1:00:00	1:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	S2	2	0	H	

Drilling BH24	15/06/2026	AS	17:00:00	18:00:00	1:00:00	1:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	S2	2	0	H	
Drilling BH24	15/06/2026	AS	18:25:00	19:25:00	1:00:00	0:20:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW2	1	0	H	
Drilling BH24	15/06/2026	AS	20:50:00	21:50:00	1:00:00	1:00:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW2	1	0	H	
Drilling BH24	15/06/2026	AS	21:50:00	22:20:00	0:30:00	0:30:00	52° 38.564', - 9° 7.055'	52° 38.564', - 9° 7.055'	SW2	1	0	G	
Drilling BH22	18/06/2026	AS	20:40:00	21:40:00	1:00:00	0:00:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	SW3	1	0	H	
Drilling BH22	18/06/2026	AS	21:40:00	22:15:00	0:35:00	0:00:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	SW3	2	0	G	
Drilling BH22	19/06/2026	AS	5:09:00	5:40:00	0:31:00	0:00:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	SW3	2	0	G	
Drilling BH22	19/06/2026	AS	7:30:00	8:28:00	0:58:00	0:00:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	SW3	2	0	M	
Drilling BH22	19/06/2026	AS	10:25:00	11:30:00	1:05:00	0:12:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	SW3	2	0	M	
Drilling BH22	19/06/2026	AS	12:45:00	13:45:00	1:00:00	0:02:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	SW3	3	0	H	
Drilling BH22	19/06/2026	AS	14:30:00	15:03:00	0:33:00	0:00:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	NW3	3	0	H	
Drilling BH22	19/06/2026	AS	18:00:00	18:45:00	0:45:00	0:00:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	NW2	2	0	H	

Drilling BH22	19/06/2026	AS	18:45:00	19:20:00	0:35:00	0:00:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	NW2	2	0	H	
Drilling BH22	19/06/2026	AS	21:30:00	22:40:00	1:10:00	1:10:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	W2	2	0	H	
Drilling BH22	20/06/2026	AS	5:30:00	6:30:00	1:00:00	1:00:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	W2	2	0	H	
Drilling BH22	20/06/2026	AS	6:30:00	7:08:00	0:38:00	0:00:00	52° 38.534', - 9° 7.127'	52° 38.534', - 9° 7.127'	W1	1	0	H	
Drilling BH22	20/06/2026	AS	11:00:00	12:00:00	1:00:00	1:00:00	52° ', -9° '	52° 0', -9° 0'	W1	0	H	H	
Drilling BH22	20/06/2026	AS	13:00:00	14:00:00	1:00:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	W1	0	H	H	
Drilling BH22	20/06/2026	AS	14:00:00	14:57:00	0:57:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	SE1	0	H	H	
Drilling BH22	20/06/2026	AS	19:40:00	20:30:00	0:50:00	0:50:00	52° ', -9° '	52° 0', -9° 0'	SE1	0	H	H	
Drilling BH19	21/06/2026	AS	11:00:00	12:00:00	1:00:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	SE1	0	H	H	
Drilling BH19	21/06/2026	AS	12:00:00	13:00:00	1:00:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	SE1	0	H	H	
Drilling BH19	21/06/2026	AS	17:10:00	18:10:00	1:00:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	SE1	0	H	H	
Drilling BH19	21/06/2026	AS	18:10:00	19:00:00	0:50:00	0:00:00	52° ', -9° '	52° 0', -9° 0'		0	0	0	
Drilling BH19	21/06/2026	AS	19:15:00	20:15:00	1:00:00	0:28:00	52° ', -9° '	52° 0', -9° 0'	SE1	0	H	H	
Drilling BH19	21/06/2026	AS	21:20:00	21:56:00	0:36:00	0:10:00	52° ', -9° '	52° 0', -9° 0'	SE2	0	H	H	
Drilling BH19	21/06/2026	AS	21:56:00	22:30:00	0:34:00	0:04:00	52° ', -9° '	52° 0', -9° 0'	SE1	0	H	H	
Drilling BH19	22/06/2026	AS	5:30:00	6:00:00	0:30:00	0:30:00	52° ', -9° '	52° 0', -9° 0'	E1	0	H	H	
Drilling BH19	22/06/2026	AS	6:30:00	7:16:00	0:46:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	E1	0	H	H	
Drilling BH19A	23/06/2026	AS	8:00:00	9:00:00	1:00:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	W2	0	H	H	
Drilling BH19A	23/06/2026	AS	9:20:00	10:00:00	0:40:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	W2	0	H	H	

Drilling BH19A	23/06/2026	AS	10:00:00	10:55:00	0:55:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	W2	0	H	H	
Drilling BH19A	23/06/2026	AS	10:55:00	11:25:00	0:30:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	W2	0	H	H	
Drilling BH19A	23/06/2026	AS	11:25:00	12:00:00	0:35:00	0:35:00	52° ', -9° '	52° 0', -9° 0'	W2	0	H	H	
Drilling BH19A	23/06/2026	AS	19:00:00	20:00:00	1:00:00	1:00:00	52° ', -9° '	52° 0', -9° 0'	W2	L	H	H	
Drilling BH19A	23/06/2026	AS	20:45:00	21:15:00	0:30:00	0:30:00	52° ', -9° '	52° 0', -9° 0'	W2	L	H	H	
Drilling BH19A	24/06/2026	AS	6:15:00	7:10:00	0:55:00	0:03:00	52° ', -9° '	52° 0', -9° 0'		0	0	0	
Location19-CPT5	24/06/2026	AS	19:30:00	20:30:00	1:00:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	NE1	0	H	H	
Location19-CPT5	24/06/2026	AS	20:30:00	21:30:00	1:00:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	NE2	0	H	H	
Location19-CPT5	24/06/2026	AS	21:30:00	22:30:00	1:00:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	NE1	0	H	H	
Location19-CPT5	24/06/2026	AS	14:25:00	16:28:00	2:03:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	SSE3	1	0	H	
Location19-CPT5	24/06/2026	AS	19:45:00	20:45:00	1:00:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	SE2	1	0	H	
Location19-CPT5	24/06/2026	AS	20:45:00	21:20:00	0:35:00	0:00:00	52° ', -9° '	52° 0', -9° 0'	SE1	1	0	H	
Drilling BH20	25/06/2026	AS	21:20:00	22:00:00	0:40:00	0:10:00	52° ', -9° '	52° 0', -9° 0'	W1	1	0	H	
Drilling BH20	26/06/2026	AS	6:48:00	10:46:00	3:58:00	2:46:00	52° ', -9° '	52° 0', -9° 0'	NE1	0	H	H	
Drilling BH20	26/06/2026	AS	13:30:00	15:30:00	2:00:00	2:00:00	52° ', -9° '	52° 38.46', -9° 7.29'	SE1	0	H	H	
CPT8	27/06/2026	FC	5:05:00	5:40:00	0:35:00	0:00:00	52° 38.46', -9° 7.29'	52° 38.46', -9° 7.29'	S 4	2	0	H	EW 00:35
CPT8	27/06/2026	FC	6:05:00	6:40:00	0:35:00	0:00:00	52° 38.46', -9° 7.29'	52° 38.46', -9° 7.29'	S 4	2	0	H	EW 00:35
CPT8	27/06/2026	TVDE	10:00:00	11:30:00	1:30:00	0:00:00	52° 38.46', -9° 7.29'	52° 38.46', -9° 7.29'	S 4	2	0	H	EW 01:30
CPT10	27/06/2026	TVDE	16:30:00	17:30:00	1:00:00	0:00:00	52° 38.567', -9° 7.052'	52° 38.567', -9° 7.052'	SW 4	2	0	M	EW 01:00

CPT10	27/06/2026	FC	21:42:00	22:20:00	0:38:00	0:00:00	52° 38.567', - 9° 7.052'	52° 38.567', - 9° 7.052'	SW 4	3	L	M	EW 00:38
CPT10	28/06/2026	FC	6:00:00	6:30:00	0:30:00	0:00:00	52° 38.567', - 9° 7.052'	52° 38.567', - 9° 7.052'	SW 4	3	L	H	EW 00:30
CPT10	28/06/2026	TVDE	10:10:00	11:27:00	1:17:00	0:00:00	52° 38.567', - 9° 7.052'	52° 38.567', - 9° 7.052'	SW 5	3	L	H	EW 1:17
Drilling BH23	30/06/2026	TVDE	14:03:00	15:00:00	0:57:00	0:15:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	W 4	2	0	H	PW 00:57
Drilling BH23	30/06/2026	TVDE	16:30:00	17:30:00	1:00:00	0:29:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	NW 4	2	0	H	PW 1:00
Drilling BH23	30/06/2026	RB	18:55:00	19:25:00	0:30:00	0:00:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	NW 4	3	0	M	PW 00:30
Drilling BH23	30/06/2026	RB	20:20:00	21:30:00	1:10:00	0:00:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	NW 4	3	0	M	EW 1:10
Drilling BH23	30/06/2026	RB	21:30:00	22:00:00	0:30:00	0:00:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	NW 3	2	0	M	PW 00:30
Drilling BH23	01/07/2026	TVDE	8:35:00	10:00:00	1:25:00	1:25:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	SW 3	2	0	H	
Drilling BH23	01/07/2026	TVDE	12:58:00	14:00:00	1:02:00	0:07:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	SW 4	2	0	H	
CPT 9	01/07/2026	RB	19:00:00	20:20:00	1:20:00	2:00:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	WSW 4-5	4	1.7m	M-P	
CPT 9	02/07/2026	RB	5:30:00	6:40:00	1:10:00	0:00:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	W 2	1	0	G	

CPT 9	02/07/2026	TVDE	7:30:00	9:00:00	1:30:00	1:25:00	52° 38.554', - 9° 7.086'	52° 38.554', - 9° 7.086'	WNW 3	1	0	H	
CPT 9	02/07/2026	TVDE	13:00:00	14:00:00	1:00:00	1:10:00	52° 38.554', - 9° 7.086'	52° 38.55', -9° 7.09'	WNW 3	1	0	H	
CPT 4	02/07/2026	RB	18:45:00	21:35:00	2:50:00	0:01:00	52° 38.54', -9° 7.1'	52° 38.54', -9° 7.1'	NW 1	1	0	H	
CPT 4	03/07/2026	RB	5:45:00	6:35:00	0:50:00	2:40:00	52° 38.54', -9° 7.1'	52° 38.54', -9° 7.1'	N 1	1	0	H	
CPT 4	03/07/2026	TVDE	7:30:00	9:30:00	2:00:00	0:10:00	52° 38.54', -9° 7.1'	52° 38.54', -9° 7.1'	SW2	0	0	H	
CPT 4	03/07/2026	TVDE	11:30:00	13:30:00	2:00:00	1:05:00	52° 38.54', -9° 7.1'	52° 38.54', -9° 7.1'	WSW3	1	0	H	
Drilling BH18	03/07/2026	SB	19:15:00	21:20:00	2:05:00	0:00:00	52° 38.55', -9° 7.1'	52° 38.55', -9° 7.1'	WSW4	0	0	H	
Drilling BH18	04/07/2026	TVDE	8:05:00	9:30:00	1:25:00	0:53:00	52° 38.55', -9° 7.1'	52° 38.55', -9° 7.1'	WSW4	2	L	H	
Drilling BH18	04/07/2026	TVDE	15:50:00	17:00:00	1:10:00	0:38:00	52° 38.55', -9° 7.1'	52° 38.53', -9° 7.1'	W4	2	L	H	
Drilling BH16	05/07/2026	TVDE	9:16:00	10:10:00	0:54:00	0:01:00	52° 38.53', -9° 7.14'	52° 38.53', -9° 7.14'	W3	1	L	H	
Drilling BH16	05/07/2026	TVDE	10:10:00	12:50:00	2:40:00	2:40:00	52° 38.53', -9° 7.14'	52° 38.53', -9° 7.14'	W3	1	L	H	
Drilling BH16	05/07/2026	RB	18:50:00	19:00:00	0:10:00	0:10:00	52° 38.53', -9° 7.14'	52° 38.53', -9° 7.14'	W3	1	0	H	
Drilling BH16	05/07/2026	RB	19:40:00	20:45:00	1:05:00	1:05:00	52° 38.53', -9° 7.14'	52° 38.53', -9° 7.14'	W3	1	0	H	
BH16	06/07/2026	RB	5:20:00	6:00:00	0:40:00	2:19:00	52° 38.53', -9° 7.14'	52° 38.53', -9° 7.14'	W2	1	L	H	

CPT 3	06/07/2026	TVDE	9:30:00	10:30:00	1:00:00	1:50:00	52° 38.53', -9° 7.14'	52° 38.53', -9° 7.14'	WSW3	1	L	H	
CPT 3	06/07/2026	TVDE	16:00:00	17:35:00	1:35:00	2:20:00	52° 38.53', -9° 7.14'	52° 38.53', -9° 7.14'	W4	3	L	H	
CPT 2	07/07/2026	TVDE	9:30:00	11:30:00	2:00:00	4:45:00	52° 38.52', -9° 7.14'	52° 38.52', -9° 7.14'	W3	1	L	H	
CPT 7	07/07/2026	TVDE	14:30:00	18:20:00	3:50:00	1:55:00	52° 38.41', -9° 7.22'	52° 38.41', -9° 7.22'	W3	1	L	H	
CPT 7	07/07/2026	RB	19:00:00	20:30:00	1:30:00	1:10:00	52° 38.41', -9° 7.22'	52° 38.41', -9° 7.22'	W2	1	L	H	
Drilling BH21	08/07/2026	RB	5:32:00	6:47:00	1:15:00	0:00:00	52° 38.47', -9° 7.24'	52° 38.47', -9° 7.24'	W 1	1	L	M	
Drilling BH21	08/07/2026	TVDE	6:47:00	11:11:00	4:24:00	1:13:00	52° 38.47', -9° 7.24'	52° 38.47', -9° 7.24'	W 1	1	L	M	
Drilling BH21	08/07/2026	TVDE	15:40:00	18:15:00	2:35:00	0:05:00	52° 38.47', -9° 7.24'	52° 38.47', -9° 7.24'	WNW 3	1	L	H	
Drilling BH21	08/07/2026	TVDE/RB	18:15:00	20:35:00	2:20:00	2:05:00	52° 38.47', -9° 7.24'	52° 38.47', -9° 7.24'	NW 3	2	L	H	
Drilling BH21	09/07/2026	RB/TVDE	5:25:00	10:10:00	4:45:00	4:45:00	52° 38.47', -9° 7.24'	52° 38.47', -9° 7.24'	NW2	1	L	H	
Drilling BH17	09/07/2026	TVDE	14:35:00	17:00:00	2:25:00	1:54:00	52° 38.48', -9° 7.15'	52° 38.48', -9° 7.15'	NW3	1	L	H	
Drilling BH17	09/07/2026	RB	18:50:00	20:00:00	1:10:00	1:00:00	52° 38.48', -9° 7.15'	52° 38.48', -9° 7.15'	NW1	1	L	H	
Drilling BH17	09/07/2026	RB	20:40:00	22:00:00	1:20:00	1:20:00	52° 38.48', -9° 7.15'	52° 38.48', -9° 7.15'	NW1	1	L	H	
Drilling BH17	10/07/2026	RB/TVDE	6:00:00	8:50:00	2:50:00	2:50:00	52° 38.48', -9° 7.15'	52° 38.48', -9° 7.15'	NE 2	1	L	H	

Appendix III. NPWS Activity Form

Type of operation or activity	Date	Time when ramp-up/soft-start began	Time when equipment reached full power	Time when equipment stopped or shut down	Who carried out the monitoring for marine mammals?	Start time of monitoring for marine mammals	End time of monitoring for marine mammals	Reason for non-detection of marine mammals?	Were hydro-phones used?	Were marine mammals present in the 30/60 mins before start-up?	If Yes, give time when marine mammals were last seen	If marine mammals were present, cite mitigation reference?
Sparker	17/01/2026	11:57	12:37	13:47	MMO	10:43	12:37		No	No		
Sparker	17/01/2026				MMO	14:28	14:45		No	No		
Sparker	17/01/2026	16:00	16:40	17:10	MMO	15:18	16:40		No	No		S#1
Sparker	18/02/2026				MMO	08:16	09:15		No	No		

Sparker	18/02/2026				MMO	09:15	10:15		No	No		
Sparker	18/02/2026				MMO	10:15	11:15		No	No		
Sparker	18/02/2026				MMO	11:15	12:15		No	No		
Sparker	18/02/2026	13:05	13:45	16:09	MMO	12:15	13:05		No	No		
Sparker	18/02/2026				MMO	13:05	13:45		No	No		
Sparker	18/02/2026				MMO	15:35	16:39		No	No		
Sparker	18/02/2026	16:39	17:19	17:49	MMO	16:39	17:19		No	No		
Sparker	19/02/2026	08:59	09:39	10:38	MMO	08:10	08:59		No	No		
Sparker	19/02/2026				MMO	08:59	09:39		No	No		
Sparker	19/02/2026				MMO	09:39	10:38		No	No		
Sparker	19/02/2026	12:31	13:11	18:15	MMO	11:36	12:31		No	No		
Sparker	19/02/2026				MMO	12:31	13:11		No	No		
Sparker	19/02/2026				MMO	13:11	14:11		No	No		
Sparker	19/02/2026				MMO	14:11	15:11		No	No		
Sparker	20/02/2026	08:32	09:12	17:48	MMO	07:37	08:32		No	No		
Sparker	20/02/2026				MMO	08:32	09:12		No	No		
Sparker	20/02/2026				MMO	09:12	10:12		No	No		
Sparker	20/02/2026				MMO	15:22	16:22		No	No		
Sparker	20/02/2026				MMO	16:22	17:48		No	No		
Sparker	23/02/2026	09:11	09:51	14:01	MMO	08:27	09:11		No	No		
Sparker	23/02/2026				MMO	09:11	09:51		No	No		
Sparker	23/02/2026				MMO	09:51	10:51		No	No		
Sparker	23/02/2026				MMO	10:51	11:51		No	No		
Sparker	23/02/2026				MMO	11:51	12:51		No	No		
Sparker	23/02/2026				MMO	12:51	13:51		No	No		
Sparker	23/02/2026				MMO	13:51	14:01		No	No		
Sparker	23/02/2026	14:14	14:54	16:45	MMO	14:01	14:14		No	No		
Sparker	23/02/2026				MMO	14:14	14:54		No	No		
Sparker	23/02/2026				MMO	14:54	16:54		No	No		
Sparker	24/02/2026	10:50	11:30	12:26	MMO	10:09	10:50		No	No		
Sparker	24/02/2026				MMO	10:50	11:30		No	No		
Sparker	24/02/2026				MMO	11:30	12:26		No	No		

Sparker	24/02/2026	12:42	13:22	14:54	MMO	12:26	12:42		No	No		
Sparker	24/02/2026				MMO	12:42	13:22		No	No		
Sparker	24/02/2026				MMO	13:22	14:22		No	No		
Sparker	24/02/2026	16:20	17:00	17:49	MMO	15:27	16:20		No	No		
Sparker	24/02/2026				MMO	16:20	17:00		No	No		
Sparker	24/02/2026				MMO	17:00	17:49		No	No		
MBES	27/02/2026	11:13	11:13	15:25	MMO	10:35	11:13		No	No		
MBES	27/02/2026				MMO	11:13	12:13		No	No		
MBES	27/02/2026				MMO	12:13	13:13		No	No		
MBES	27/02/2026				MMO	13:13	14:13		No	No		
MBES	27/02/2026				MMO	14:13	15:13		No	No		
MBES	27/02/2026				MMO	15:13	15:25		No	No		
SBP	09/03/2026	12:11	12:31	15:50	MMO	11:40	12:11		No	No		
SBP	09/03/2026				MMO	12:11	12:31		No	No		
SBP	09/03/2026				MMO	12:31	13:31		No	No		
SBP	09/03/2026				MMO	13:31	14:31		No	No		
SBP	09/03/2026				MMO	14:31	15:31		No	No		
SBP	09/03/2026				MMO	15:31	15:50		No	No		
SBP	10/03/2026	08:19	08:39	12:48	MMO	07:45	08:19		No	No		
SBP	10/03/2026				MMO	08:19	08:39		No	No		
SBP	10/03/2026				MMO	08:39	09:39		No	No		
SBP	10/03/2026				MMO	09:39	10:39		No	No		
SBP	10/03/2026				MMO	10:39	11:39		No	No		
SBP	10/03/2026				MMO	11:39	12:39		No	No		
SBP	10/03/2026				MMO	12:39	12:48		No	No		
SBP	10/03/2026	13:27	13:47	16:45	MMO	12:55	13:27		No	No		
SBP	10/03/2026				MMO	13:27	13:47		No	No		
SBP	10/03/2026				MMO	13:47	14:47		No	No		
SBP	10/03/2026				MMO	14:47	15:21		No	No		
SBP	11/03/2026	07:33	07:53	12:40	MMO	07:00	07:33		No	No		
SBP	11/03/2026				MMO	07:33	07:53		No	No		
SBP	11/03/2026				MMO	07:53	08:53		No	No		

SBP	11/03/2026				MMO	08:53	09:53		No	No		
SBP	11/03/2026				MMO	09:53	10:53		No	No		
SBP	11/03/2026				MMO	10:53	11:39		No	No		
SBP	12/03/2026	07:30	07:50	08:06	MMO	07:00	07:30		No	No		
SBP	12/03/2026				MMO	07:30	07:50		No	No		
SBP	12/03/2026				MMO	07:50	08:06		No	No		
SBP	13/03/2026	07:36	07:56	07:58	MMO	07:00	07:36		No	No		
SBP	13/03/2026				MMO	07:36	07:56		No	No		
SBP	14/03/2026	07:23	07:43	17:42	MMO	06:50	07:23		No	No		
SBP	14/03/2026				MMO	07:23	07:43		No	No		
SBP	14/03/2026				MMO	07:43	08:43		No	No		
SBP	14/03/2026				MMO	08:43	09:43		No	No		
SBP	14/03/2026				MMO	09:43	10:43		No	No		
SBP	14/03/2026				MMO	10:43	11:43		No	No		
SBP	14/03/2026				MMO	11:43	12:43		No	No		
SBP	14/03/2026				MMO	12:43	13:43		No	No		
SBP	14/03/2026				MMO	15:09	16:09		No	No		
SBP	14/03/2026				MMO	16:09	17:09		No	No		
USBL	16/03/2026	08:02	08:02	08:34	MMO	07:30	08:02		No	No		
USBL	16/03/2026				MMO	08:02	08:34		No	No		
USBL	16/03/2026	10:04	10:04	15:01	MMO	09:30	10:04		No	No		
USBL	16/03/2026				MMO	10:04	10:24		No	No		
USBL	16/03/2026				MMO	10:24	11:24		No	No		
USBL	16/03/2026				MMO	11:24	12:24		No	No		
USBL	16/03/2026				MMO	12:24	13:24		No	No		
USBL	16/03/2026				MMO	13:24	14:34		No	No		
USBL	16/03/2026				MMO	14:34	15:01		No	No		
USBL	16/03/2026	15:56	16:16	17:43	MMO	15:25	15:56		No	No		
USBL/SSS	16/03/2026				MMO	15:56	16:16		No	No		
USBL/SSS	16/03/2026				MMO	16:16	17:17		No	No		
USBL/SSS	16/03/2026				MMO	17:17	17:43		No	No		
USBL/SSS	17/03/2026	08:24	08:24	18:16	MMO	07:44	08:24		No	No		

USBL/SSS	17/03/2026				MMO	08:24	08:44		No	No		
USBL/SSS	17/03/2026				MMO	08:44	09:44		No	No		
USBL/SSS	17/03/2026				MMO	09:44	10:44		No	No		
USBL/SSS	17/03/2026				MMO	10:44	11:44		No	No		
USBL/SSS	17/03/2026				MMO	11:44	12:44		No	No		
USBL/SSS	17/03/2026				MMO	12:44	13:44		No	No		
USBL/SSS	17/03/2026				MMO	13:44	14:44		No	No		
USBL/SSS	17/03/2026				MMO	14:44	15:44		No	No		
USBL/SSS	17/03/2026				MMO	15:44	16:44		No	No		
USBL/SSS	17/03/2026				MMO	16:44	17:44		No	No		
USBL/SSS	17/03/2026				MMO	17:44	18:16		No	No		
USBL/SSS	18/03/2026	08:57	09:17	13:30	MMO	08:10	08:57		No	No		
USBL/SSS	18/03/2026				MMO	08:57	09:17		No	No		
USBL/SSS	18/03/2026				MMO	09:17	10:17		No	No		
USBL/SSS	18/03/2026				MMO	10:17	11:17		No	No		
USBL/SSS	18/03/2026				MMO	11:17	12:17		No	No		
USBL/SSS	18/03/2026				MMO	12:17	13:17		No	No		
USBL/SSS	18/03/2026				MMO	13:17	13:30		No	No		
USBL/SSS	18/03/2026	14:30	14:50	18:07	MMO	14:00	14:30		No	No		
USBL/SSS	18/03/2026				MMO	14:30	14:50		No	No		
USBL/SSS	18/03/2026				MMO	14:50	15:50		No	No		
USBL/SSS	18/03/2026				MMO	15:50	16:50		No	No		
USBL/SSS	18/03/2026				MMO	16:50	17:50		No	No		
USBL/SSS	18/03/2026				MMO	17:50	18:07		No	No		
USBL/SSS	19/03/2026	08:09	08:29	18:53	MMO	07:38	08:09		No	No		
USBL	19/03/2026				MMO	08:09	08:29		No	No		
USBL	19/03/2026				MMO	08:29	09:29		No	No		
USBL	19/03/2026				MMO	09:29	10:29		No	No		
USBL	19/03/2026				MMO	10:29	11:29		No	No		
USBL	19/03/2026				MMO	11:29	11:53		No	No		
USBL	19/03/2026				MMO	15:17	15:51		No	No		
USBL	19/03/2026				MMO	15:51	16:51		No	No		

USBL	19/03/2026				MMO	16:51	17:51		No	No		
USBL	19/03/2026				MMO	17:51	18:25		No	No		
USBL/MAG	20/03/2026	08:21	08:21	18:33	MMO	07:49	08:21		No	No		
USBL/MAG	20/03/2026				MMO	08:21	09:21		No	No		
USBL/MAG	20/03/2026				MMO	09:21	10:21		No	No		
USBL/MAG	20/03/2026				MMO	10:21	11:21		No	No		
USBL/MAG	20/03/2026				MMO	11:21	12:21		No	No		
USBL/MAG	20/03/2026				MMO	12:21	13:21		No	No		
USBL/MAG	20/03/2026				MMO	13:21	14:21		No	No		
USBL/MAG	20/03/2026				MMO	14:21	15:21		No	No		
USBL/MAG	20/03/2026				MMO	15:21	16:21		No	No		
USBL/MAG	20/03/2026				MMO	16:21	17:21		No	No		
USBL/MAG	20/03/2026				MMO	17:21	18:21		No	No		
USBL/MAG	20/03/2026				MMO	18:21	18:33		No	No		
USBL/MAG	21/03/2026	08:13	08:13	18:10	MMO	07:42	08:13		No	No		
USBL/MAG	21/03/2026				MMO	08:13	09:13		No	No		
USBL/MAG	21/03/2026				MMO	09:13	10:13		No	No		
USBL/MAG	21/03/2026				MMO	10:13	11:13		No	No		
USBL/MAG	21/03/2026				MMO	11:13	12:13		No	No		
USBL/MAG	21/03/2026				MMO	12:13	13:13		No	No		
USBL/MAG	21/03/2026				MMO	13:13	14:13		No	No		
USBL/MAG	21/03/2026				MMO	14:13	15:13		No	No		
USBL/MAG	21/03/2026				MMO	15:13	16:13		No	No		
USBL/MAG	21/03/2026				MMO	16:13	17:13		No	No		
USBL/MAG	21/03/2026				MMO	17:13	18:10		No	No		
USBL/MAG	22/03/2026	08:14	08:14	17:06	MMO	07:42	08:14		No	No		
USBL/MAG	22/03/2026				MMO	08:14	09:14		No	No		
USBL/MAG	22/03/2026				MMO	09:14	10:14		No	No		
USBL/MAG	22/03/2026				MMO	10:14	11:14		No	No		
USBL/MAG	22/03/2026				MMO	11:14	12:14		No	No		
USBL/MAG	22/03/2026				MMO	12:14	13:14		No	No		
USBL/MAG	22/03/2026				MMO	13:14	14:14		No	No		

USBL/MAG	22/03/2026				MMO	14:14	15:14		No	No		
USBL/MAG	22/03/2026				MMO	15:14	16:14		No	No		
USBL/MAG	22/03/2026				MMO	16:14	17:06		No	No		
USBL/MAG	23/03/2026	07:52	07:52	09:58	MMO	07:22	07:52		No	No		
USBL/MAG	23/03/2026				MMO	07:52	08:52		No	No		
USBL/MAG	23/03/2026				MMO	08:52	09:52		No	No		
USBL/MAG	23/03/2026				MMO	09:52	09:58		No	No		
USBL	08/04/2026	10:49	10:49	12:16	MMO	10:15	10:49		No	No		
USBL	08/04/2026				MMO	11:40	12:00		No	No		
USBL	08/04/2026	13:14	13:14	13:17	MMO	12:17	13:14		No	No		
USBL	08/04/2026	15:15	15:15	15:53	MMO	14:30	15:15		No	No		
USBL	08/04/2026	16:45	16:45	16:55	MMO	16:05	16:45		No	No		
Drilling BH12	05/06/2026	11:50	11:50	03:30	MMO	11:04	12:16		No	No		
Drilling BH12	05/06/2026				MMO	13:26	13:56		No	No		
Drilling BH12	05/06/2026				MMO	16:40	17:30		No	No		
Drilling BH12	05/06/2026				MMO	19:20	20:20		No	No		
CPT BH12	06/06/2026				MMO	07:10	07:40		No	No		
CPT BH12	06/06/2026				MMO	11:30	12:15		No	No		
Drilling BH13	07/06/2026				MMO	10:50	11:50		No	No		
Drilling BH13	07/06/2026				MMO	11:50	12:50		No	No		
Drilling BH13	07/06/2026				MMO	12:50	13:50		No	No		
Drilling BH13	07/06/2026	14:22	14:22	18:40	MMO	13:50	14:25		No	No		
Drilling BH13	07/06/2026	19:22	19:22	13:50	MMO	18:52	19:22		No	No		
Drilling BH13	07/06/2026				MMO	20:30	21:30		No	No		
Drilling BH13	08/06/2026				MMO	09:35	10:05		No	No		
Drilling BH13	08/06/2026				MMO	12:40	13:40		No	No		
Drilling BH14	09/06/2026				MMO	05:50	06:50		No	No		
Drilling BH14	09/06/2026				MMO	06:50	07:50		No	No		
Drilling BH14	09/06/2026	08:20	08:20	18:30	MMO	07:50	08:30		No	No		
Drilling BH14	09/06/2026				MMO	12:40	13:50		No	No		
Drilling BH14	09/06/2026				MMO	16:55	18:10		No	No		
SRP	09/06/2026	19:02	19:02	19:36	MMO	17:34	19:02		No	No		

SRP	09/06/2026				MMO	19:03	19:40		No	No		
Drilling BH14	09/06/2026	21:14	21:14	03:45	MMO	20:39	21:14		No	No		
SRP	10/06/2026	07:36	07:36	07:54	MMO	06:33	07:36		No	No		
SRP	10/06/2026				MMO	07:37	08:05		No	No		
Drilling BH14	10/06/2026				MMO	11:43	12:43		No	No		
Drilling BH14	10/06/2026				MMO	12:43	13:23		No	No		
SRP	10/06/2026	13:48	13:48	14:28	MMO	13:01	13:48		No	No		
SRP	10/06/2026				MMO	13:49	14:28		No	No		
Drilling BH15	13/06/2026				MMO	08:50	09:50		No	No		
Drilling BH15	13/06/2026				MMO	09:50	10:20		No	No		
Drilling BH15	13/06/2026	10:50	10:50	18:15	MMO	10:20	10:50		No	No		
Drilling BH15	13/06/2026				MMO	10:50	11:05		No	No		
Drilling BH15	13/06/2026				MMO	12:30	13:30		No	No		
Drilling BH15	13/06/2026				MMO	13:30	14:30		No	No		
Drilling BH15	13/06/2026				MMO	15:30	16:30		No	No		
Drilling BH15	13/06/2026				MMO	16:30	17:30		No	No		
Drilling BH15	13/06/2026				MMO	17:30	18:00		No	No		
Drilling BH15	13/06/2026	19:15	19:15	05:45	MMO	18:00	19:15		No	No		
Drilling BH15	13/06/2026				MMO	19:20	21:50		No	No		
Drilling BH15	14/06/2026				MMO	05:20	05:45		No	No		
Drilling BH24	14/06/2026				MMO	18:15	18:55		No	No		
Drilling BH24	14/06/2026				MMO	18:55	19:41		No	No		
Drilling BH24	14/06/2026	20:11	20:11	20:27	MMO	19:41	20:11		No	No		
Drilling BH24	14/06/2026				MMO	20:27	20:59		No	No		
Drilling BH24	14/06/2026	21:29	21:29	18:25	MMO	20:59	21:29		No	No		
Drilling BH24	15/06/2026				MMO	04:55	06:45		No	No		
Drilling BH24	15/06/2026				MMO	07:15	08:15		No	No		
Drilling BH24	15/06/2026				MMO	08:30	09:30		No	No		
Drilling BH24	15/06/2026				MMO	09:30	10:30		No	No		
Drilling BH24	15/06/2026				MMO	11:30	12:30		No	No		
Drilling BH24	15/06/2026				MMO	14:00	15:00		No	No		
Drilling BH24	15/06/2026				MMO	17:00	18:00		No	No		

Drilling BH24	15/06/2026	19:05	19:05	02:40	MMO	18:25	19:25		No	No		
Drilling BH24	15/06/2026				MMO	20:50	21:50		No	No		
Drilling BH24	15/06/2026				MMO	21:50	22:20		No	No		
Drilling BH22	18/06/2026				MMO	20:40	21:40		No	No		
Drilling BH22	18/06/2026				MMO	21:40	22:15		No	No		
Drilling BH22	19/06/2026				MMO	05:09	05:40		No	No		
Drilling BH22	19/06/2026	08:28	08:28	10:20	MMO	07:30	08:28		No	No		
Drilling BH22	19/06/2026	11:18	11:18	12:45	MMO	10:25	11:30		No	No		
Drilling BH22	19/06/2026	13:43	13:43	14:20	MMO	12:45	13:45		No	No		
Drilling BH22	19/06/2026	15:03	15:03	18:00	MMO	14:30	15:03		No	No		
Drilling BH22	19/06/2026				MMO	18:00	18:45		No	No		
Drilling BH22	19/06/2026	19:20	19:20	06:43	MMO	18:45	19:20		No	No		
Drilling BH22	19/06/2026				MMO	21:30	22:40		No	No		
Drilling BH22	20/06/2026				MMO	05:30	06:30		No	No		
Drilling BH22	20/06/2026	07:08	07:08	13:00	MMO	06:30	07:08		No	No		
Drilling BH22	20/06/2026				MMO	11:00	12:00		No	No		
Drilling BH22	20/06/2026				MMO	13:00	14:00		No	No		
Drilling BH22	20/06/2026	14:57	14:57	20:30	MMO	14:00	14:57		No	No		
Drilling BH22	20/06/2026				MMO	19:40	20:30		No	No		
Drilling BH19	21/06/2026				MMO	11:00	12:00		No	No		
Drilling BH19	21/06/2026				MMO	12:00	13:00		No	No		
Drilling BH19	21/06/2026				MMO	17:10	18:10		No	No		
Drilling BH19	21/06/2026				MMO	18:10	19:00		No	No		
Drilling BH19	21/06/2026	19:47	19:47	21:30	MMO	19:15	20:15		No	No		
Drilling BH19	21/06/2026				MMO	21:20	21:56		No	No		
Drilling BH19	21/06/2026	22:26	22:26	06:10	MMO	21:56	22:30		No	No		
Drilling BH19	22/06/2026				MMO	05:30	06:00		No	No		
Drilling BH19	22/06/2026	07:16	07:16	07:25	MMO	06:30	07:16		No	No		
Drilling BH19A	23/06/2026				MMO	08:00	09:00		No	No		
Drilling BH19A	23/06/2026				MMO	09:20	10:00		No	No		

Drilling BH19A	23/06/2026				MMO	10:00	10:55		No	No		
Drilling BH19A	23/06/2026	11:25	11:25	06:30	MMO	10:55	11:25		No	No		
Drilling BH19A	23/06/2026				MMO	11:25	12:00		No	No		
Drilling BH19A	23/06/2026				MMO	19:00	20:00		No	No		
Drilling BH19A	23/06/2026				MMO	20:45	21:15		No	No		
Drilling BH19A	24/06/2026	07:07	07:07	07:43	MMO	06:15	07:10		No	No		
Location19-CPT5	24/06/2026				MMO	19:30	20:30		No	No		
Location19-CPT5	24/06/2026				MMO	20:30	21:30		No	No		
Location19-CPT5	24/06/2026				MMO	21:30	22:30		No	No		
Location19-CPT5	24/06/2026				MMO	14:25	16:28		No	No		
Location19-CPT5	24/06/2026				MMO	19:45	20:45		No	No		
Location19-CPT5	24/06/2026				MMO	20:45	21:20		No	No		
Drilling BH20	25/06/2026	21:50	21:50	05:44	MMO	21:20	22:00		No	No		
Drilling BH20	26/06/2026	08:00	17:07	17:07	MMO	06:48	10:46		No	No		
Drilling BH20	26/06/2026				MMO	13:30	15:30		No	No		
CPT8	27/06/2026				MMO	05:05	05:40		No	No		
CPT8	27/06/2026				MMO	06:05	06:40		No	No		
CPT8	27/06/2026				MMO	10:00	11:30		No	No		
CPT10	27/06/2026				MMO	16:30	17:30		No	No		
CPT10	27/06/2026				MMO	21:42	22:20		No	No		
CPT10	28/06/2026				MMO	06:00	06:30		No	No		
Drilling BH23	30/06/2026		14:45	16:28	MMO	14:03	15:00		No	No		

Drilling BH23	30/06/2026	14:45	17:01	16:28	MMO	16:30	17:30		No	No		
Drilling BH23	30/06/2026	17:01	19:55	20:20	MMO	18:55	19:55		No	No		
Drilling BH23	30/06/2026	19:25	19:55	20:20	MMO	20:20	21:30		No	No		
Drilling BH23	30/06/2026		22:00		MMO	21:30	22:00		No	No		
Drilling BH23	30/06/2026	22:00	22:00	12:30	MMO	21:30	22:00		No	No		
Drilling BH23	01/07/2026				MMO	08:35	10:00		No	No		
Drilling BH23	01/07/2026	13:53	13:53	16:35	MMO	12:58	14:00		No	No		
CPT 9	01/07/2026				MMO	19:00	20:20		No	No		
CPT 9	02/07/2026				MMO	05:30	06:40		No	No		
CPT 9	02/07/2026				MMO	07:30	09:00		No	No		
CPT 9	02/07/2026				MMO	13:00	14:00		No	No		
CPT 4	02/07/2026				MMO	18:45	21:35		No	No		
CPT 4	03/07/2026				MMO	05:45	06:35		No	No		
CPT 4	03/07/2026				MMO	07:30	09:30		No	No		
CPT 4	03/07/2026				MMO	11:30	13:30		No	No		
Drilling-BH18	03/07/2026		21:20	04:44	MMO	19:15	21:20		No	No		
Drilling-BH18	04/07/2026		08:37	15:20	MMO	08:05	09:30		No	No		
Drilling-BH18	04/07/2026		16:22	18:00	MMO	15:50	17:00		No	No		
Drilling-BH18	05/07/2026		10:09		MMO	09:16	10:10		No	No		
Drilling-BH18	05/07/2026				MMO	10:10	12:50		No	No		
Drilling-BH18	05/07/2026				MMO	18:50	19:00		No	No		
Drilling-BH18	05/07/2026				MMO	19:40	20:45		No	No		
Drilling-BH18	06/07/2026			01:45	MMO	05:20	06:00		No	No		
CPT 3	06/07/2026				MMO	09:30	10:30		No	No		
CPT 3	06/07/2026				MMO	16:00	17:35		No	No		
CPT 2	07/07/2026				MMO	09:30	11:30		No	No		

CPT 7	07/07/2026				MMO	14:30	18:20		No	No		
CPT 7	07/07/2026				MMO	19:00	20:30		No	No		
Drilling-BH21	08/07/2026		08:52	11:11	MMO	06:47	11:11		No	No		
Drilling-BH21	08/07/2026		18:15	19:00	MMO	15:40	18:15		No	No		
Drilling-BH21	08/07/2026		19:15	19:00	MMO	18:15	20:35		No	No		
Drilling-BH21	08/07/2026		19:15		MMO	18:15	20:35		No	No		
Drilling-BH21	09/07/2026			10:10	MMO	05:25	10:10		No	No		
Drilling-BH17	09/07/2026		15:05	18:50	MMO	14:35	17:00		No	No		
Drilling-BH17	09/07/2026		19:00		MMO	18:50	20:00		No	No		
Drilling-BH17	09/07/2026				MMO	20:40	22:00		No	No		
Drilling-BH17	10/07/2026			08:50	MMO	06:00	08:50		No	No		

Appendix IV. Sighting Sheets

DATA FORM FOR COASTAL/MARINE WORKS - MARINE MAMMAL SIGHTING RECORDS



Options in italics should be circled or underlined as appropriate. Complete 1 record per sheet.

Operation/Activity (please tick)		Dredging	Drilling	Pile Driving	Blasting	Other Seismic
Date (dd/mm/yyyy) 17/02/2026	Time (Local) 14:45	Time (GMT/UTC) 14:45			Sighting Record no. 1	
How did this sighting occur? (please tick) While you were keeping a continuous watch for marine mammals YES Spotted incidentally by you or someone else — Other (please specify) — Details:						
Platform type & name (e.g. ship, rig, headland)			Observer's name Andrew Shine			
Observer's position (Latitude/Longitude or 6-figure Grid reference) 52° 36.884, 09° 10.449					Water depth (metres) (if available) 25	
Species recorded Bottlenose Dolphin			Certainty of identification (underline) <u>Definite</u> / probable / possible			
Total number of animals (best estimate) 07		No. of adults 05		No. of juveniles 02		No. of calves 0
Maximum number (estimated total) 10		Minimum number (estimated total) 07				
Description (include features such as overall size; shape of head; position, shape and size of dorsal fin; colour and patterning; height, direction, shape of blow) Large, robust animals, short rostrum, grey with white ventral side.				Photograph or video taken Yes / <u>No</u> Direction of travel of animals in relation to platform/vessel (draw arrow) 		
Behaviour Logging, slow travel, fast travel, bow riding				Direction of travel of animals (compass points or degrees) 320		
Activity of platform/vessel Testing equipment		Operation/activity under way (when animals first seen) Yes / No / <u>Pre-Start watch</u>		Closest distance of animals from platform/vessel (metres) (Record even if not operating) 05		

DATA FORM FOR COASTAL/MARINE WORKS - MARINE MAMMAL SIGHTING RECORDS

Options in italics should be circled or underlined as appropriate. Complete 1 record per sheet.

Operation/Activity (please tick)		Dredging	<u>Drilling</u>	Pile Driving	Blasting	Other
Date (dd/mm/yyyy) 18/06/2026	Time (Local) 20:59	Time (GMT/UTC) 19:59			Sighting Record no. 2	
How did this sighting occur? (please tick) While you were keeping a continuous watch for marine mammals YES Spotted incidentally by you or someone else — Other (please specify) — Details:						
Platform type & name (e.g. ship, rig, headland) Jack-Up-Barge, Causeway Giant 2			Observer's name Fiona Cummins			
Observer's position (Latitude/Longitude or 6-figure Grid reference) BH22- 52°38.534', -9°7.127'					Water depth (metres) (if available)	
Species recorded Grey seal			Certainty of identification (underline) <u>Definite</u> / probable / possible			
Total number of animals (best estimate) 01		No. of adults 01	No. of juveniles 0	No. of calves 0		
Maximum number (estimated total) 01		Minimum number (estimated total) 01				
Description (include features such as overall size; shape of head; position, shape and size of dorsal fin; colour and patterning; height, direction, shape of blow) Large pinniped species, large head with elongated convex snout.				Photograph or video taken Yes / <u>No</u>		
				Direction of travel of animals in relation to platform/vessel (draw arrow) 		
Behaviour Logging, slow surface swimming, dive				Direction of travel of animals (compass points or degrees) 170 (True bearing: 250)		
Activity of platform/vessel Drilling- Not operational	Operation/activity under way (when animals first seen) Yes / <u>No</u> / Pre-Start watch		Closest distance of animals from platform/vessel (metres) (Record even if not operating) 800			

DATA FORM FOR COASTAL/MARINE WORKS - MARINE MAMMAL SIGHTING RECORDS

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Operation/Activity (please tick)		Dredging	<u>Drilling</u>	Pile Driving	Blasting	Other
Date (dd/mm/yyyy) 22/06/2026	Time (Local) 06:55	Time (GMT/UTC) 05:55			Sighting Record no. 3	
How did this sighting occur? (please tick) While you were keeping a continuous watch for marine mammals _____ Spotted incidentally by you or someone else <u>Y</u> Other (please specify) _____ Details:						
Platform type & name (e.g. ship, rig, headland) CTV – RHIB – Ocean Quest				Observer's name Fiona Cummins		
Observer's position (Latitude/Longitude or 6-figure Grid reference) 52°36.963', -09°06.99'					Water depth (metres) (if available)	
Species recorded Bottlenose dolphin		Certainty of identification (underline) <u>Definite</u> / probable / possible				
Total number of animals (best estimate) 03	No. of adults 03	No. of juveniles 0	No. of calves 0			
Maximum number (estimated total) 05		Minimum number (estimated total) 02				
Description (include features such as overall size; shape of head; position, shape and size of dorsal fin; colour and patterning; height, direction, shape of blow) Robust grey body, <u>short rounded</u> beak.				Photograph or video taken Yes / <u>No</u> Direction of travel of animals in relation to platform/vessel (draw arrow) 		
Behaviour Sighted during crew transfer. Sighted on approach to Foynes Port. Slow swimming.				Direction of travel of animals (compass points or degrees) variable (True bearing: 120)		
Activity of platform/vessel During crew transfer, ~ 3km away from JUB	Operation/activity under way (when animals first seen) Yes / <u>No</u> / Pre-Start watch		Closest distance of animals from platform/vessel (metres) (Record even if not operating) 40			

DATA FORM FOR COASTAL/MARINE WORKS - MARINE MAMMAL SIGHTING RECORDS

Options in italics should be circled or underlined as appropriate. Complete 1 record per sheet.

Operation/Activity (please tick)		Dredging	<u>Drilling</u>	Pile Driving	Blasting	Other
Date (dd/mm/yyyy) 24/06/2026	Time (Local) 18:40	Time (GMT/UTC) 17:40			Sighting Record no. 4	
How did this sighting occur? (please tick) While you were keeping a continuous watch for marine mammals ☐ Spotted incidentally by you or someone else ☒ <u>YES</u> Other (please specify) ☐ Details:						
Platform type & name (e.g. ship, rig, headland) CTV – RHIB – Ocean Quest			Observer's name Fiona Cummins			
Observer's position (Latitude/Longitude or 6-figure Grid reference) 52°37.064, -9°7.381'					Water depth (metres) (if available)	
Species recorded Bottlenose dolphin		Certainty of identification (underline) <u>Definite</u> / probable / possible				
Total number of animals (best estimate) 15		No. of adults 14		No. of juveniles 1		No. of calves 0
Maximum number (estimated total) 20		Minimum number (estimated total) 10				
Description (include features such as overall size; shape of head; position, shape and size of dorsal fin; colour and patterning; height, direction, shape of blow) Robust grey dolphin, <u>short rounded</u> beak				Photograph or video taken Yes / <u>No</u>		
				Direction of travel of animals in relation to platform/vessel (draw arrow)		
Behaviour Slow swimming, spread out, variable heading.				Direction of travel of animals (compass points or degrees) variable (True bearing: 270)		
Activity of platform/vessel Crew transfer		Operation/activity under way (when animals first seen) Yes / <u>No</u> / Pre-Start watch		Closest distance of animals from platform/vessel (metres) (Record even if not operating) 30		

DATA FORM FOR COASTAL/MARINE WORKS - MARINE MAMMAL SIGHTING RECORDS

Options in *italics* should be circled or underlined as appropriate. Complete 1 record per sheet.

Operation/Activity (please tick)		Dredging	<u>Drilling</u>	Pile Driving	Blasting	Other
Date (dd/mm/yyyy) 01/07/2026	Time (Local) 18:35	Time (GMT/UTC) 17:35			Sighting Record no. 5	
How did this sighting occur? (please tick) While you were keeping a continuous watch for marine mammals _____ Spotted incidentally by you or someone else _____ <u>YES</u> _____ Other (please specify) _____ Details:						
Platform type & name (e.g. ship, rig, headland) CTV – RHIB – Ocean Quest			Observer's name Rónán Berrow			
Observer's position (Latitude/Longitude or 6-figure Grid reference) 52°36.881, -9°6.672'					Water depth (metres) (if available)	
Species recorded Bottlenose dolphin			Certainty of identification (underline) <u>Definite</u> / probable / possible			
Total number of animals (best estimate) 3			No. of adults 3	No. of juveniles 0	No. of calves 0	
Maximum number (estimated total) 5			Minimum number (estimated total) 2			
Description (include features such as overall size; shape of head; position, shape and size of dorsal fin; colour and patterning; height, direction, shape of blow) Robust grey dolphin, <u>short rounded</u> beak				Photograph or video taken Yes / <u>No</u>		
				Direction of travel of animals in relation to platform/vessel (draw arrow) 		
Behaviour Slow swimming, variable heading.				Direction of travel of animals (compass points or degrees) 270 (True bearing: 100)		
Activity of platform/vessel Crew transfer		Operation/activity under way (when animals first seen) Yes / <u>No</u> / Pre-Start watch		Closest distance of animals from platform/vessel (metres) (Record even if not operating) 20		

DATA FORM FOR COASTAL/MARINE WORKS - MARINE MAMMAL SIGHTING RECORDS

Options in italics should be circled or underlined as appropriate. Complete 1 record per sheet.

Operation/Activity (please tick)		Dredging	<u>Drilling</u>	Pile Driving	Blasting	Other
Date (dd/mm/yyyy) 02/07/2026	Time (Local) 06:15	Time (GMT/UTC) 05:15			Sighting Record no. 6	
How did this sighting occur? (please tick) While you were keeping a continuous watch for marine mammals <u>YES</u> Spotted incidentally by you or someone else _____ Other (please specify) _____ Details:						
Platform type & name (e.g. ship, rig, headland) Jack-Up Barge Causeway Giant				Observer's name Rónán Berrow		
Observer's position (Latitude/Longitude or 6-figure Grid reference) 52°38.550, -9°7.090'					Water depth (metres) (if available)	
Species recorded Bottlenose dolphin		Certainty of identification (underline) <u>Definite</u> / probable / possible				
Total number of animals (best estimate) 5	No. of adults 5	No. of juveniles 0		No. of calves 0		
Maximum number (estimated total) 7		Minimum number (estimated total) 2				
Description (include features such as overall size; shape of head; position, shape and size of dorsal fin; colour and patterning; height, direction, shape of blow) Robust grey dolphin, <u>short rounded</u> beak				Photograph or video taken Yes / <u>No</u>		
				Direction of travel of animals in relation to platform/vessel (draw arrow) 		
Behaviour Slow swimming, variable heading.				Direction of travel of animals (compass points or degrees) variable (True bearing: 230)		
Activity of platform/vessel Drilling	Operation/activity under way (when animals first seen) <u>Yes</u> / No / Pre-Start watch		Closest distance of animals from platform/vessel (metres) (Record even if not operating) 1500			