

Application for a Band 1 Marine Licence

Project description

Project name

Prince of Wales Dock Aquatic Ecology Surveys

Please provide a brief description of the proposed project, including location.

APEM have been commissioned to conduct a suite of aquatic ecology surveys to inform the preparation of a Water Framework Directive (WFD) assessment and Preliminary Ecological Appraisal (PEA) for proposed redevelopment works within the Prince of Wales Dock (PoWD), Swansea.

The proposed location for the surveys are located within the infill communication channel connecting the PoWD to King's Dock in Swansea. General coordinates for where the survey will take place are:

Latitude: 51.618343

Longitude: -3.9236909

Surveys will consist of the following:

Benthic Grab Surveys - Four benthic stations will be sampled using a 0.0225 m² Ekman Grab. Three replicate samples will be taken at each station for macrobiota and one sample for Particle Size Analysis (PSA).

Intertidal Wall Scrapes - A total of seven intertidal wall scrape stations will be sampled using a 0.01 m² sampling device, in accordance with the methodologies described by Worsfold (1998). This is to characterise fouling biota present on hard structures at approximately the mid tide level.

Subtidal Wall Scrapes - A total of seven intertidal wall scrape stations will be sampled using a standard kick net to characterise the fouling biota present on hard structures from the shallow subtidal region.

Fyke Netting - Fyke nets will be deployed at three stations to sample any fish potentially present. At each station two fyke nets will be used in conjunction joined by a 'curtain' of net that encourages fish to swim into the hoop entrance (referred to as paired fyke nets).

Baited Traps - Baited traps will be deployed at three stations to qualitatively sample the mobile invertebrates. APEM will use a modified crayfish trap covered in a fine mesh to more adequately retain smaller organisms such as scavenging amphipods and cirrhitid isopods.

Applicant details

To whom the licence will be issued. This must be a legal entity such as an individual, registered company/ charity or public body.

Title	Mr
Full name	Connor Markham
Company or trading name	APEM Ltd.
Company Registration Number (if applicable)	02530851
Name of contact or individual (if different)	N/A
Position in company	Marine Consultant
Address (provide registered company address if applicable)	A17 Embankment, Business Park Heaton Mersey Manchester
Postcode	SK4 3GN
Telephone number	0161 442 8938
Email address	c.markham@apemltd.co.uk

Details of agent, contractor, vehicles and/or vessels used to carry out works

Will the works require the use of vessels?

Yes

Will the works require the use of any vehicles?

No

Proposed project details

Licensable period

Determination of applications will be based on the works taking place during these dates. Please ensure you have included an adequate contingency period. If works are not completed by the requested licence expiry date you may be required to submit a new application. Including a contingency period within your original application does not impact on the licence fee.

Start date (DD/MM/YYYY) 22/07/2022

Requested licence expiry date (DD/MM/YYYY) 22/07/2023

Please detail the location of the proposed project.

This should be either Ordnance Survey National Grid Reference (i.e. SN 12345 67890) or Latitude and Longitude in decimal degrees to 4 decimal places (i.e. Lat 52.1234 Long -4.1234), defining the extent of the project. Please specify which coordinate system has been used and if using GIS co-ordinates, specify which projection has been used.

Ordnance Survey National Grid Reference: SS 66916 92811

Extent of surveys:

Northerly - Latitude: 51.6185 Longitude: -3.9238

Easterly - Latitude: 51.6184 Longitude: -3.9232

Southernly - Latitude: 51.6181 Longitude: -3.9236

Westerly - Latitude: 51.6184 Longitude: -3.9244

Survey Area: 7,505.6km²

Coordinate system: WGS 1984

Method statement

Are the works within a sensitive area or one of the following activities: boreholes, replacement piles or beach management?

No

Method statement

Please give a brief method statement outlining the proposed project

APEM have been commissioned to conduct a suite of aquatic ecology surveys to inform the preparation of a Water Framework Directive (WFD) assessment and Preliminary Ecological Appraisal (PEA) for proposed redevelopment works within the Prince of Wales Dock (PoWD), Swansea.

The proposed location for the surveys are located within the infill communication channel connecting the PoWD to King's Dock in Swansea. General coordinates for where the survey will take place are:

Latitude: 51.618343

Longitude: -3.9236909

Surveys will consist of the following sampling techniques:

Benthic Grab Surveys - Four benthic stations will be sampled using a 0.0225 m² Ekman Grab. Three replicate samples will be taken at each station for macrobiota and one sample for Particle Size Analysis (PSA). Retrieved grab samples will then be taken onshore and photographed. Samples will then either be stored for laboratory processing or processed and stored in situ.

Intertidal Wall Scrapes - A total of seven intertidal wall scrape stations will be sampled using a 0.01 m² sampling device, in accordance with the methodologies described by Worsfold (1998). This is to characterise fouling biota present on hard structures at approximately the mid tide level. Samples will be transferred to an appropriate container and fixed with 4% buffered formaldehyde solution in seawater.

Subtidal Wall Scrapes - A total of seven intertidal wall scrape stations will be sampled using a standard kick net to characterise the fouling biota present on hard structures from the shallow subtidal region. Samples will be transferred to an appropriate container and fixed with 4% buffered formaldehyde solution in seawater.

Fyke Netting - Fyke nets will be deployed at three stations to sample any fish potentially present. At each station two fyke nets will be used in conjunction joined by a 'curtain' of net that encourages fish to swim into the hoop entrance (referred to as paired fyke nets). Nets will be left overnight clearly marked with a buoy and recovered the following day. All fish retrieved from the nets will be recorded in situ and returned to the dock.

Baited Traps - Baited traps will be deployed at three stations to qualitatively sample the mobile invertebrates. APEM will use a modified crayfish trap covered in a fine mesh to more adequately retain smaller organisms such as scavenging amphipods and cirrhitid isopods. Baited traps will be left overnight clearly marked with a buoy and on retrieval the entire contents of each trap will be emptied into a large bucket. Easily identified species, such as shore crabs, will be counted and returned to the water. All other invertebrates, including those that are difficult to identify or may be non-native species will be preserved in 4% buffered formaldehyde solution in seawater and processed in the lab.

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

APEM are aware of the dangers of transferring invasive non-native species (INNS) among water bodies and therefore we will deploy their biosecurity procedure at all times, including observing the Check, Clean, Dry campaign. The biosecurity measures adhered to, as a minimum, in all surveys are:

- Checking and cleaning survey vehicles, equipment and PPE before carrying out any work on site;
- Drying clothes and boots between survey days; and
- Disinfection of all equipment and vehicles with Virkon Aquatic disinfectant where required.

APEM will use an inflatable rib to conduct surveys and will ensure that the vessel is deployed and removed from the Prince of Wales Dock to ensure that no INNS transfer takes place between other docks within the area.

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

APEM have identified that Swansea Watersports frequently use the Prince of Wales Dock on a daily basis. However, Swansea Watersports have confirmed that they do not use the area of the dock intended for surveying. Therefore, no interference will be caused.

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

APEM have consulted both the MCA and Trinity House regarding the risk to navigational safety.

The MCA have requested that the following risk mitigation measures take place, to which APEM have agreed:

- All maritime safety legislation is complied with.

The MCA have also advised that 'the applicant should gain the approval/agreement of the responsible local navigation authority or the Harbour Authority/Commissioners/Council'. APEM understand that the Prince of Wales Dock has recently been subject to a Harbour Revision Order (HRO) which will result in ownership transferring to Welsh Government. APEM have therefore sought the approval from the relevant authority.

Trinity House have has no objections to these works, providing any requirements suggested by the harbour authority are adhered to.

As Fyke nets and baited traps will be within the dock overnight, they will be marked clearly with a buoy not only to assist with retrieval but to warn other users of their presence.

Materials of the project

Description of materials to be deposited seaward of Mean High Water Springs (MHWS) (Please tick all that apply)

Other (please provide a description of materials):

Fyke nets and Baited traps will be left overnight within the Prince of Wales Dock and retrieved the following morning

Delivery method of materials to site

If sea delivery, details of vessels to be used with a chart of proposed route and transshipment area is required. If delivery is by vehicle, the details about the proposed access route are required. Please indicate if you are providing details in a separate file.

Delivery of materials to survey site via Van. Materials will be transported from Cardiff to Swansea, Wales.

Will the works involve removals seaward of MHWS?

Yes

Description of materials to be removed seaward of MHWS (Please tick all that apply)

Other

Description of objects/materials to be removed seaward of MHWS, including quantities to be removed.

Sediment will be taken from the Prince of Wales Dock using a 0.0225 m² Ekman grab. A total of 12 grabs will be taken covering an area of approximately 0.27 m². A volume of approximately 60 L (0.06 cubic metres) of sediment will be removed.

Additional information

Please provide the following:

You must include a suitably scaled extract of an Ordnance Survey Map or Admiralty Chart with location of project complete with north arrow and scale

You must include details of correspondence with MCA, Trinity House and The Crown Estate

You must include any pre application advice/correspondence with NRW

Correspondence with RCAHMMW (B1 removals only)

Please upload these below

- File: PoWD Survey Area.jpg - [Download](#)
- File: PoWD Survey Area & Sampling Locations.jpg - [Download](#)
- File: PoWD Correspondence with MCA.docx - [Download](#)
- File: PoWD Correspondence with NRW.docx - [Download](#)
- File: PoWD Correspondence with RCAHMMW.docx - [Download](#)
- File: PoWD Correspondence with Trinity House.docx - [Download](#)
- File: PoWD Correspondence with Swansea Watersports.docx - [Download](#)

Please list below all supporting documents that have been submitted with this application.

Supporting documents submitted with application:

- OS maps with details of survey area and locations of sampling stations
- Correspondence with MCA
- Correspondence with Trinity House
- Correspondence with NRW
- Correspondence with RCAHMMW
- Correspondence with Swansea Watersports

Statutory powers

Does the applicant have statutory powers to consent any aspect of the project? e.g. coast protection authority, dredging powers, statutory undertakers

No

Public register

Is there any information contained within or provided in support of this application that you consider should NOT be included on the Public Register on the grounds that its disclosure:

	Yes	No
Would be contrary to the interest of National Security?		X
Would prejudice to an unreasonable degree you, or some other person's commercial interest or those of a third party?		X

Application fee

Please provide the method of payment

World pay (please contact the Permit Receipt Centre)

Declaration

I declare that to the best of my knowledge and belief that the information given in this application form and supporting documentation is true.

WARNING: It is an offence under the Marine and Coastal Access Act 2009, under which this application is made, to fail to disclose information or to provide false or misleading information. This could invalidate any licence granted.

Name	Connor Markham
Date	21/07/2022
Position in company	Marine Consultant

If you would like a copy of your completed form, please add your preferred email address below:

c.markham@apemltd.co.uk