

Application for a Band 1 Marine Licence

Project description

Project name

Old Wye Bridge Chepstow- Temporary Sheet Footway

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

Ultrabeam Limited have been asked by Monmouthshire County Council to perform a high resolution above and below water sonar and LiDAR inspection survey at the Old River Wye Bridge in Chepstow (NP16 5HF). The survey will inform ongoing engineering assessment of the structure by WSP UK. Due to the tidal nature of the water course in this location, along with the difficulties associated with launching a traditional manned survey craft to this location, Ultrabeam propose to use their own custom designed and built lightweight carbon fibre modular 'Black Swan' USV.

The launch and recovery of the USV and RIB is particularly challenging at the Old Wye Bridge location, due to the large tidal range of the watercourse at the bridge location and the steep, muddy estuarine banks of the river. For this reason, the launch and recovery of all equipment and personnel to the watercourse is planned to be done by deploying a temporary sheet footway down the muddy bank, on the western bank, immediately downstream of the bridge. The location of this footway is shown in UHC23008_Project HSE Pack_Rev0.2 in section 1.8.

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	Steve Baldwin
Company or trading name	Monmouthshire County Council
Company Registration Number (if applicable)	N/A
Name of contact or individual (if different)	N/A
Position in company	Project Engineer
Address (provide registered company address if applicable)	Unit 3, Hayle Marine Renewables Business Park North Quay Hayle, Cornwall
Postcode	TR27 4DD
Telephone number	01663 644713
Email address	stevebaldwin@monomouthshire.gov.uk

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

Agent details

This is who we will correspond with unless otherwise informed. If no agent is identified we will contact the applicant.

Title	Mr
Full name	Shwan Saed
Company or trading name	WSP
Company Registration Number (if applicable)	N/A
Name of contact or individual (if different)	N/A
Position in company	Principal Engineer
Address (provide registered company address if applicable)	1 Capital Quarter Tyndall Street Cardiff
Postcode	CF10 4BZ
Telephone number	+44 29 2076 9262
Email address	shwan.saed@wsp.com

Does the applicant wish to be included in all correspondence?

Yes

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) 28/06/2023

Requested licence expiry date (DD/MM/YYYY) 28/12/2023

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.

The location of the footway is shown in UHC23008_Project HSE Pack_Rev0.2 in section 1.8.

Method statement

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

Yes

Band 1 method statement template

You can upload your method statement here or fill in the questions below.

- File: UHC23008_Project HSE Pack_Rev0.2 (1).pdf - [Download](#)

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

Ultrabeam Limited have been asked by Monmouthshire County Council to perform a high resolution above and below water sonar and LiDAR inspection survey at the Old River Wye Bridge in Chepstow (NP16 5HF). The survey will inform ongoing engineering assessment of the structure by WSP UK. Due to the tidal nature of the water course in this location, along with the difficulties associated with launching a traditional manned survey craft to this location, Ultrabeam propose to use their own custom designed and built lightweight carbon fibre modular 'Black Swan' USV.

The launch and recovery of the USV and RIB is particularly challenging at the Old Wye Bridge location, due to the large tidal range of the watercourse at the bridge location and the steep, muddy estuarine banks of the river. For this reason, the launch and recovery of all equipment and personnel to the watercourse is planned to be done by deploying a temporary sheet footway down the muddy bank, on the western bank, immediately downstream of the bridge.

The location of the Proposed footway is shown in document UHC23008_Project HSE Pack_Rev0.2 in section 1.8. The approximate central grid reference of the proposed footway is Ordnance Survey National Grid Reference ST 53671 94324.

Scope of works

Please provide a full description of all proposed works including: Sequence of works (mobilisation, marine works, site remediation (if required)) Estimated timing of works (duration, working hours, day/night, plus contingency) Plant, machinery or vessel required Estimated quantities (removals, deposits, construction materials)

Purpose of the Project

Ultrabeam Limited have been asked by Monmouthshire County Council and WSP UK to perform a high resolution above and below water sonar and LiDAR inspection survey at the Old River Wye Bridge in Chepstow. The survey will inform ongoing engineering assessment of the structure by WSP UK. Due to the tidal nature of the water course in this location, along with the difficulties associated with launching a traditional manned survey craft to this location, Ultrabeam propose to use their own custom designed and built lightweight carbon fibre modular 'Black Swan' USV.

Proposed Works

The launch and recovery of the USV and RIB is particularly challenging at the Old Wye Bridge location, due to the large tidal range of the watercourse at the bridge location and the steep, muddy estuarine banks of the river. For this reason, the launch and recovery of all equipment and personnel to the watercourse is planned to be done by deploying a temporary sheet footway down the muddy bank, on the western bank, immediately downstream of the bridge.

The temporary footway down the southern bank shall be provided for the purposes of supplying additional support when moving up and down the bank at low tide. The footway shall comprise of (1) A tarpaulin roll, unrolled down the bank. The roll of tarpaulin shall be circa 1.8m wide and shall have a total unrolled length of up to 100m, however it is planned that only around 20-30m will be used (2) A 6m extendable ladder overlain onto the tarpaulin. This ladder shall be used to further spread the load of personnel moving up and down the bank. All of whom shall have full PPE including a works buoyancy aid.

Boat Specifications

The Black Swan is a capable light weight survey vehicle with 4 axis electric thrusters allowing solid positioning performance for navigating around structures. The Black Swan is controlled remotely from the riverbank within line of site.

The Yamaha YAM 275 Air is a small inflatable craft and is 2.7m long.

Estimated Timescales of Construction and Operation

The survey operations of the inspection of the bridge are expected to take 1 day with mobilisation taking 1 day and demobilisation also taking 1 day. Works will start as soon as possible once the marine license has been accepted. Works will occur during the day.

Mobilisation

This stage of the works will involve the deployment of a temporary sheet footway down the muddy bank, on the western bank, immediately downstream of the bridge. Mobilisation will take one day.

Bridge Inspection

This stage of the works will involve the undertaking of the water sonar and LiDAR inspection survey at the Old River Wye Bridge in Chepstow. The bridge inspection will take one day.

Demobilisation

This stage of the works will involve the removal of the temporary sheet footway. Demobilisation will take one day.

Access and working areas

Please provide details of access to the site and working areas. This should include:
Attached map of the access/egress route and working areas (annotated aerial image and/or OS map)
Predicted plant/vehicle movements
Storage areas for plant, equipment and materials (if required)
Risks to navigation

Predicted plant/vehicle movements & storage areas

The tarpaulin roll, extending ladder and all other survey equipment to be deployed to the water course shall be hand carried from the parked van, which will likely be parked at the western end of the parkland and at the end of 'The Back' road. Once this equipment is carried to the river bank, it shall be kept clear of the public footpath along the river bank, and shall be deployed to the north of this path, causing no obstruction to any members of the public using the footpath. These locations are detailed in UHC23008_Project_HSE_Pack_Rev0.2

Risks to Navigation

Survey operations shall be conducted in daylight hours only and in favourable weather conditions. Measures to maintain navigational safety are set out in the document HSE-F-005 Risk Assessment Template.

Environmental mitigation

Please list appropriate mitigation measures to minimise impacts on the marine environment these may include: Pollution prevention and control procedure (guidance available on the NetRegs website) Spill response kits Minimise plant traffic Designated access and egress routes Storage of materials (fuel, chemicals, construction waste) Biosecurity (guidance available at <http://www.snh.gov.uk/docs/A1294630.pdf>)

Note: To assist you, the following mitigation statements will be used as conditions within the licence. By signing this method statement you will be agreeing to adhere to these restrictions. If you are unable to do this, the application will not qualify as Band 1. All equipment, temporary structures, access tracks, waste and/or debris associated with the works will be removed on completion of the works. Bunding, storage facilities and spill kits will be employed to contain and prevent the release of fuel, oils and chemicals associated with the plant, refuelling and construction equipment into the marine environment. Plant, vehicles and machinery will not be refuelled on the foreshore. Coatings and treatments will be suitable for use in the marine environment and are used in accordance with best environmental practice. All equipment, materials, machinery and PPE used will be in a clean condition prior to their arrival on site, and upon removal from site, to minimise risk of introducing non-native species into the marine environment. In the event of removal of any sensitive species or habitat designated by NRW under Schedule 7 of the Environment (Wales) Act 2016, no further removals will occur at that location or within 20m of that location.

Please list your bespoke mitigations here:

The survey will be completed using a small USV and will not generate notable noise. The USV will not be used in areas of observed bird activity where possible and therefore any disturbance to birds would be mitigated. All works will be carried out in full compliance of any marine licencing conditions governing the project. Where license conditions are in place to prevent harm to marine mammals then these conditions shall be complied with fully including but not limited to logging sightings of marine mammals and performing soft starts of any high power low frequency survey equipment as detailed in the license conditions for the project.

In the event of a spill of any fluid such as fuel oil, chemicals or lubricants during the course of the project, the USCV pilot shall conduct the response to the spill in accordance with UK MCA guidelines and shall inform the relevant authorities as well as the project management team of both Ultrabeam limited and Bam Nuttall.

The tarpaulin roll, extending ladder and all other survey equipment to be deployed to the water course shall be hand carried from the parked van, which will likely be parked at the western end of the parkland and at the end of 'The Back' road. Once this equipment is carried to the river bank, it shall be kept clear of the public footpath along the river bank, and shall be deployed to the north of this path, causing no obstruction to any members of the public using the footpath. These locations are detailed in UHC23008_Project_HSE_Pack_Rev0.2.

Additional information

Please list any additional information that may help with the application:
Consents/permissions required List of plans or drawings attached to method statement
Emergency procedures Contact details

Monmouthshire County Council have been in touch with Natural Resources Wales (NRW) who have confirmed that a Band 1 marine license will be required prior to the commencement of the survey. Correspondence was with Gary Purnell, Senior Advisor. This is due to the proposed temporary sheet footway being below the MHWS.

All supporting documents attached to this application are listed below:-

- (1) UHC23008_Project_HSE_Pack_Rev0.2
- (2) HSE-F-006_Method Statement Template
- (3) HSE-F-005 Risk Assessment Template
- (4) UHC23008_BlackSwan USV Details_Rev0.1.pdf
- (5) UHC23008_YAM 275 Inflatable Details_Rev0.1.pdf

Materials of the project

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

Plastic/synthetics

Other (please provide a description of materials):
The temporary sheet footway will consist of a tarpaulin roll.

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.

The tarpaulin roll, extending ladder and all other survey equipment to be deployed to the water course shall be hand carried from the parked van, which will likely be parked at the western end of the parkland and at the end of 'The Back' road. Once this equipment is carried to the river bank, it shall be kept clear of the public footpath along the river bank, and shall be deployed to the north of this path, causing no obstruction to any members of the public using the footpath. These locations are detailed in UHC23008_Project_HSE_Pack_Rev0.2.

Will the works involve removals seaward of MHWS?

No

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

N/A

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

If applicable, any construction plans and sectional drawings showing those proposed works below/seaward of MHWS, which should give details of the materials to be used (for beach replenishment the quantity, particle size and source of material to be deposited and deposit location is also required)

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

You must include any pre application advice/correspondence with NRW

Please upload these below

- File: UHC23008_Project HSE Pack_Rev0.2 (1).pdf - [Download](#)
- File: UHC23008_TRA002-Black Swan USV Ops_Old Wye Bridge Survey.pdf - [Download](#)
- File: UHC23008_YAM 275 Inflatable Details_Rev0.1 (3).pdf - [Download](#)

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

-The location of the Proposed Works and materials to be used are detailed within the file UHC23008_Project HSE Pack_Rev0.2 (1).pdf

-The details of the vessels to be used are within the file UHC23008_TRA002-Black Swan USV Ops_Old Wye Bridge Survey.pdf and file UHC23008_YAM 275 Inflatable Details_Rev0.1 (3).pdf

-Correspondence has been made with the relevant groups. Confirmation is available but the site wont let us upload the file.

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

If yes, please give details and state the relevant legislation that gives these powers.

N/A

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

BACS

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 Jessica Vevers
Date 21/06/2023
Position in company Assistant Ecologist at WSP

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

jessica.vevers@wsp.com