Application for a Band 1 Marine Licence

Project description

Project name
A465 Neath Masonry Arch - Foundation Depth Investigation

Please provide a brief description of the proposed project, including location.
On behalf of the South Wales Trunk Road Agent (SWTRA), Atkins has been commissioned to oversee the drilling of 4nr vertical cored boreholes through the A465 masonry bridge spanning the River Neath. The bridge supports a footbridge, which allows pedestrian access from Bridge Street, to the east of the A465 to Neath Abbey Road, to the west. To ascertain the bridge foundation and riverbed properties for a scour assessment, lightweight cored boreholes will extend through the bridge deck down to the original river bed, at the 2 bridge piers and the 2 bridge abutments.

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	Rhys Denman
Company or trading name	South Wales Trunk Road Agency (SWTRA)
Company Registration Number (if applicable)	N/A
Name of contact or individual (if different)	N/A
Position in company	Principal Engineer (Structures)
Address (provide registered company address if applicable)	Unit 12 Llandarcy House, The Courtyard Llandarcy
Postcode	SA10 6EJ
Telephone number	01792 325913
Email address	R.Denman@southwales-tra.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	Derek Fenn
Company or trading name	Atkins Limited
Company Registration Number (if applicable)	00688424
Name of contact or individual (if different)	derek Fenn
Position in company	Chief Engineer
Address (provide registered company address if applicable)	West Glamorgan House Orchard Street Swansea
Postcode	SA1 5AD
Telephone number	01792 633571
Email address	derek.fenn@atkinsglobal.com

Does the applicant wish to be included in all correspondence?

Yes

Will the works require the use of vessels?

No

Will the works require the use of any vehicles?

Yes

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)	01/02/2022
Requested licence expiry date (DD/MM/YYYY)	01/02/2023

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.

OS Grid Reference, Eastings & Northings for the following 4 cored boreholes:
275014E, 197807N
275002E, 197813N
274987E, 197822N
274977E, 197829N

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: T8513 - Methodology REV 5_Final.docx - 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.

OS Grid Reference, (SS 749978)

Borehole locations are at:
275014E, 197807N
275002E, 197813N
274987E, 197822N
274977E, 197829N

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)

Programme
Due to the presence of the pedestrian footbridge on top of the masonry arch bridge, the use of a mobile underbridge unit is not possible. As a result, the boreholes will be carried out by core drilling through the original structure from deck level. These will be drilled into the piers to the pier foundations and into the abutments to the abutment foundations.
Four core drilled holes shall be undertaken. The approximate working time frame will be a duration of 4 to 5 weeks. A high-level programme is shown below.
• Shift 1 to 2: Set up site and public protection
• Shift 3 to 4: Remove asphalt based surfacing to expose top of bridge deck
• Shift 5 to 20: Core drilling and core sampling through piers and abutments down to formation level
• Shift 21 to 22: Reinstatement of voids left by cores and reinstatement of asphalt based surfacing
Weather forecasts and flood risk shall be taken into account using the NRW website for alerts and regular weather monitoring.
The core boreholes will be carried out using a light trailer drilling rig - see page 6 of the contractors method statement for a photograph of the type of rig to be used. The drilling rig will be towed by a land rover.
The total volume of material below river bed to be recovered, will be less than 1m3.
A topographical survey of the river banks and a bathymetric survey of the river bed will be undertaken at the same time.

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

The site compound and access route to the boreholes on the bridge is shown on the annotated photograph on page 4 of the contractor's method statement.

Plant, equipment, and materials will be stored in the site compound.

Ships and vessels don't travel up as far as the A465 masonry bridge , so there will not be any risks to navigation

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:

Protection to Watercourse
The potential for harm to the watercourse is considered low. The following mitigation measures will be implemented:

• Risk of material spills from the core drilling will be mitigated by batching in small amounts away from the watercourse, in the site compound.
• Dust will be suppressed via the use of water from a towable bowser.
• Drilling residue liquid spills will be: soaked up with dry sand, shovelled up into bags, and removed at the end of every shift.
• Wall boards will be placed in front of the parapets to ensure that no debris / water enters the watercourse below.
• Risk of heritage lime grout spills from the reinstatement of the boreholes will be mitigated by batching in small amounts away from the watercourse, in the site compound.
• Observations of the piers will be maintained whilst reinstatement of the boreholes takes place. Works will be stopped if any historic lime grout seepage is observed. Any lime grout seepages from borehole reinstatement, will be plugged with timber wedges.

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

1. Listed Building Consent is required for the cored boreholes and is being sought from Neath Port Talbot County Borough Council. Submitted on 26/11/21 ref PP-1047754.
2. Drawing FD04_001-ATK-SBR-SWTRA-DR-CB-0001 is attached to this licence application
3. With regards to emergency procedures, All work activities will be discussed prior to each shift with all site personnel, via the Knights Brown daily briefing; highlighting any changes to the working front and all hazards identified. All operatives will have mobile phones. The Knights Brown team will also have 2 – way radio communication, if required. If in the case of an emergency, emergency services will be called using a mobile phone and Atkins/SWTRA management tea, will be notified. Knights Brown will sign up to river flood alerts from NRW, as an added precaution.
4. As the start date is weeks away and the site personnel are not finalised at the time of this application, the contact details for Knights Brown's and Atkins' site personnel will be provided prior to the start of works. Atkins' site supervisor will come from Atkins nearby Swansea Office.

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):
Heritage lime grout to backfill the 4 boreholes.

Delivery method of materials to site

If sea delivery, details of vessels to be used with a chart of proposed route and transhipment 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.

Materials used for the cored boreholes and their reinstatement will be transported to site by a van.
Materials will be stored in the compound/storage site, at the location outlined in the Method Statement.

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.

Each borehole will have a diameter of 100mm and depth below bridge deck typically ranging between 10 and 15m; depending on its location and the materials encountered.
The boreholes are likely to encounter and recover cores containing: stone masonry, cementitious grout, river deposits, and potentially bedrock.
The total volume of material below river bed to be recovered, will be less than 1m3.

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)

Please upload these below

- File: FD04_001-ATK-SBR-SWTRA-DR-CB-0001 (004).pdf - Download

Please list below all supporting documents that have been submitted with this application.
¬ Drawing FD04_001-ATK-SBR-SWTRA-DR-CB-0001 is attached to this licence application

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

If yes to either of the above, please provide full justification as to why all or part of the information you have provided should be withheld.
N/A

Application fee

Please provide the method of payment

BACS

Reference number (not BACS remittance no.)
PRCAPPSWTRA465

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	Rhys Denman
Date	9 December 2021
Position in company	Principal Engineer Structures

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

derek.fenn@atkinsglobal.com