

Methodology Outline

ELR & Mileage	LLA
MGroup ID:	1184 - Afon Llwchwr Bridge
Structure Type	Metallic Rail Underbridge
Grid Ref:	SN 58746 03959

Location



Images



Scope of Works

The project involves carrying out a full inspection to all metallic elements of the structure, high level access to the underside of the structure will be required to inspect the metallic deck. The report should comment on each metallic element and highlight any defects and where required should make recommendations.

Minor Works Methodology

All operatives are to receive a full brief as per the below methodology for carrying out the works, risks surrounding the site and work activities, including any toolbox talks relevant to tasks being undertaken. All persons are to sign the relevant declaration/briefing forms to confirm they have understood the briefing daily which will be undertaken by the on-site supervisor. All mandatory PPE by all personnel at site is to be worn with welfare facilities available for the duration of the works.

Vegetation Clearance

- Access to the structure will be gained via 3rd party land which will be agreed on pre-site visit.
- Prior to any de-veg works being undertaken a visual survey will be completed by the Mgroup supervisor to identify, and nesting birds or cables which may be present and record findings on the bird nesting check sheet form to be completed prior to de-veg.
- All de-veg operations will then be carried out with petrol hedge trimmers, chainsaws, and general hand tools. All plant is to be operated by trained and certified operatives whose certification has been checked by the site supervisor prior to the works being completed.
- Plant check sheets are also to be completed on a weekly basis for handheld plant i.e. hedge trimmer, chainsaw to determine that the plant has in date certification and is also fit for purpose.
- When de-veg has been completed install access steps from the embankment down into the watercourse to give safe access to set up Pontoons and carry out timber survey.

Installation of the pontoons

- Once access steps have been installed the specialist team (Floating Pontoon) will assemble a pontoon from the embankment and float into position to the underside of the structure the pontoon will be fitted with suitable handrails and kick boards once pontoon is in position it will be secured to each corner to secure into position.
- The pontoon is to be assembled when the tide is on the way out to allow time to carry out the timber survey.
- All operatives must be always wearing life jackets throughout the works.
- 2no life rings will be positioned appropriately in case of a man overboard emergency.
- Weather conditions and water levels are to be checked prior to entering the watercourse. If water levels are too high the team are to postpone the works until the water has dropped to a safe level.
- Weather conditions are to be monitored throughout the works. (HOLD POINT) – works are to be planned in when tide times are suitable that is when high tide is at their lowest example below 7m.

Metallic Survey:

- When all above works have been carried out the team will install a small scaffold Tower on to the Pontoon to the underside of the structure where Crouch waterfall will carry out a survey to all the metallic elements of the structure this will be done with hand tools making sure to take high quality photos throughout and recorded and produce survey report to feed back to NR and Mgroup.

- On the completion of the survey the team will remove scaffold tower from the pontoon and the pontoon is to be removed from within the watercourse.
- Any close calls will be recorded via the Mgroup SSW+ Reporting App.
- Before, during and after photos are to be taken throughout the duration of the job.
- Minor alteration to the TBS due to site conditions can be made by the site supervisor and recorded in section 5 of this document. The site supervisor will also record and fill in, if necessary, a Point of Work Risk Assessment (POWRA) for any unforeseen or change in circumstance that arise before, during or after the works.
- Any deviation from the above scope then the site supervisor will be contacted to make the necessary changes and stand down until the changes have been made.

Programme and Weather Constraints

Works will be programmed exclusively during optimal weather windows to eliminate the risk of working in or adjacent to high or fast-flowing water.
The installation will be completed during midweek daytime shifts.
Works are programmed outside of the winter period.

Pollution Prevention and Environmental Controls

Aquatic Biosecurity:

- All pontoon components and equipment to be used within the watercourse must arrive clean to site. All elements will be visually inspected prior to deployment. The site supervisor will reject any components that exhibit obvious signs of biofouling and request that these be cleaned and dried prior to redeployment.

Site Management Protocols:

- All project materials and tools when not in use, will be stored at least 10 metres from the watercourse.
- Spill response kits will be maintained on site and accessible at all times.
- All operatives will receive a site-specific environmental briefing, covering pollution prevention measures, emergency response procedures, and ecological sensitivities.