

# **Construction Environmental Management Plan (CEMP)**

## **Newport Transporter Bridge**



| REVISION HISTORY                        |                   |                                                               |                                    |                                      |                              |
|-----------------------------------------|-------------------|---------------------------------------------------------------|------------------------------------|--------------------------------------|------------------------------|
| REVISION                                | HISTORY           | SECTION                                                       | PAGE                               | REVISION SUMMARY                     |                              |
| 0                                       |                   |                                                               |                                    | First Issue                          |                              |
|                                         | <b>ORIGINATOR</b> | <b>CBUK<br/>CONSTRUCTION<br/>MANAGER</b>                      | <b>CBUK PROJECT<br/>ACCEPTANCE</b> | <b>CBUK H &amp; S<br/>ACCEPTANCE</b> | <b>CLIENT<br/>ACCEPTANCE</b> |
| Name:                                   | Ross Noble        | Paul Roberts                                                  | Jim Mawson                         | Martin Gilbert                       |                              |
| Position:                               | General Foreman   | Construction<br>Manager                                       | Head of Operations                 | H & S Advisor                        |                              |
| Signature:                              |                   |                                                               |                                    |                                      |                              |
| Date:                                   |                   |                                                               |                                    |                                      |                              |
| REVIEW OF ENVIRONMENTAL MANAGEMENT PLAN |                   |                                                               |                                    |                                      |                              |
| Date for Review:                        |                   | Work is in accordance with this environmental management plan |                                    |                                      |                              |
| By:                                     |                   | Sign:                                                         |                                    | Date:                                |                              |

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## 1. ENVIRONMENTAL MANAGEMENT

### Environmental Management Plan

The Biodiversity Construction Environmental Management Plan has been prepared specifically for this project in accordance with condition 4 of application 19/1164 of the town and country planning act 1990 to safeguard habitats and species protected under the conservation of habitats and species regulations 2017, the wildlife countryside act 1981 and environmental (Wales) act 2016. GP5 of the Adopted LDP and the Wales Marine Plan.

This Environmental Plan has been formulated to ensure environmental risks associated with this project are adequately managed.

### Description of the Project

Newport Transporter Bridge project will consist of various works including:

#### The painting of the main cables

This will be carried out by rope access technicians at high level at both the Eastern and Western approaches. CBUK will liaise with the dog's home for the eastern approach works potentially have a road closure on the A48 when the western works are carried out.

#### The replacement of oblique cables

Works on the oblique cables will be confined to the access platforms that CBUK will have had installed. These platforms will have x30m of the x60m platform fully encapsulated. It is not foreseen that these works will need to be carried out within an encapsulated area, however if required CBUK will erect encapsulation and have it removed at the end of each shift.

#### Straightening of the main boom

This work will be carried out before any follow-on works can proceed. This will be controlled from the top of both the East and West towers.

## **Replacement of the boom anchor cables**

The boom anchor cables will be replaced at both the East and West approaches. Due to the complex nature of these works a road closure will be needed on the A48 whilst good communication will be needed with the dog's home on Stephenson Street.

## **Diagonal bracing replacement**

A number of diagonal bracings will be replaced from the access platform on the main boom. Where any encapsulation is needed for this operation out with the 30m encapsulated area of the platform, CBUK will erect temporary encapsulation and have this taken down at the end of each shift.

## **Repairs or replacements of items on the main boom**

CBUK will be required to replace/repair steelwork members on the main boom. Once these items are complete a blasting operation followed by a full paint system will be applied. This will be carried out within the confines of the fully encapsulated area of the access platform.

## **Restoration of the traveller and gondola**

The gondola and traveller require restoration works carried out such as repair of steelwork, replacement of cables and a full paint system. These will be parked up on the western bank where a fully encapsulated scaffolding will be erected before works proceed.

## **Anchorage Houses**

Work to be carried out in the anchorage consists of drainage works within and repairing of mortar at the brickwork. CBUK will use techniques and materials such as lime mortar to adhere to the heritage aspect of the bridge structure.

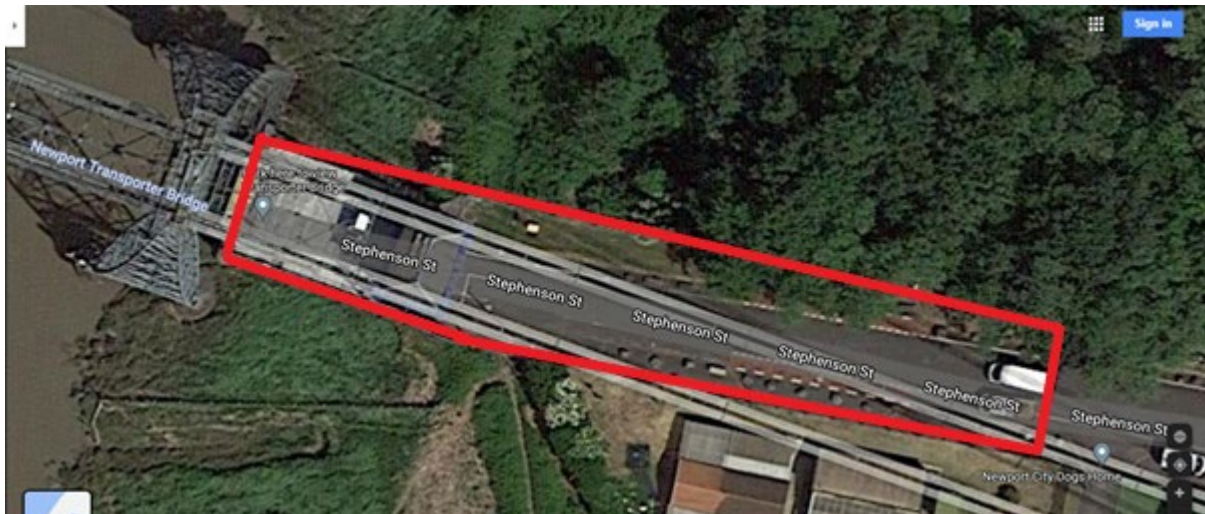
## **Landing Bridge**

The landing bridge on the eastern approach has various works to take place such as removal and replacement of timbers and the repair and replacement of the steel girders and bracings. Due to the nature of the works being within a tidal area, it has been agreed that before any works can proceed an ecologist will need to visit site and agree with CBUK the best options to prevent any disruption to the local wildlife.

**ALL TASKS WILL HAVE A FULL SET OF RAMS PRODUCED AND ACCEPTED BEFORE WORKS PROCEED (review periods to be agreed).**

Site compound will be situated at:

Newport Transporter Bridge  
Stephenson Street  
Newport  
Gwent



## Project Personnel

|               |                                                |           |                                                                                    |
|---------------|------------------------------------------------|-----------|------------------------------------------------------------------------------------|
| Name:         | Jim Mawson                                     | Position: | Head of Operational Delivery                                                       |
| Company Name: | CBUK                                           |           |                                                                                    |
| Address:      | Cleveland House, Yarm Road, Darlington, DL14DE |           |                                                                                    |
| Telephone:    | 07932 948522                                   | Email:    | <a href="mailto:Jim.mawson@clevelandbridge.com">Jim.mawson@clevelandbridge.com</a> |

|               |                                                |           |                                                                                            |
|---------------|------------------------------------------------|-----------|--------------------------------------------------------------------------------------------|
| Name:         | Martin Gilbert                                 | Position: | Health and Safety Advisor                                                                  |
| Company Name: | CBUK                                           |           |                                                                                            |
| Address:      | Cleveland House, Yarm Road, Darlington, DL14DE |           |                                                                                            |
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|               |                                                |           |                                                                                  |
|---------------|------------------------------------------------|-----------|----------------------------------------------------------------------------------|
| Name:         | Lee Monks                                      | Position: | Quantity Surveyor                                                                |
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| Telephone:    | 07595 205301                                   | Email:    | <a href="mailto:Lee.monks@clevelandbridge.com">Lee.monks@clevelandbridge.com</a> |

|               |                                                |           |                                                                                        |
|---------------|------------------------------------------------|-----------|----------------------------------------------------------------------------------------|
| Name:         | Paul Roberts                                   | Position: | Construction Manager                                                                   |
| Company Name: | CBUK                                           |           |                                                                                        |
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| Telephone:    | 07519 121037                                   | Email:    | <a href="mailto:Paul.roberts@clevelandbridge.com">Paul.roberts@clevelandbridge.com</a> |

|               |                                                |           |                                                                                    |
|---------------|------------------------------------------------|-----------|------------------------------------------------------------------------------------|
| Name:         | Ross Noble                                     | Position: | General Foreman                                                                    |
| Company Name: | CBUK                                           |           |                                                                                    |
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|               |                                                  |           |                                                                                      |
|---------------|--------------------------------------------------|-----------|--------------------------------------------------------------------------------------|
| Name:         | Maxine White                                     | Position: | Project Manager                                                                      |
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| Address:      | Telford Depot, Telford Street, Newport, NP19 0ES |           |                                                                                      |
| Telephone:    | 01633 240471                                     | Email:    | <a href="mailto:Maxine.white@newportnorse.co.uk">Maxine.white@newportnorse.co.uk</a> |

|               |                                                |           |                                                                    |
|---------------|------------------------------------------------|-----------|--------------------------------------------------------------------|
| Name:         | Samuel A McCourt                               | Position: | Senior Engineer                                                    |
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|               |                                                |           |                                                                          |
|---------------|------------------------------------------------|-----------|--------------------------------------------------------------------------|
| Name:         | Stephen Beggs                                  | Position: | Technical Director                                                       |
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| Telephone:    | 029 2068 0900                                  | Email:    | <a href="mailto:Stephen.beggs@curtins.com">Stephen.beggs@curtins.com</a> |

|               |                         |           |                                                                                |
|---------------|-------------------------|-----------|--------------------------------------------------------------------------------|
| Name:         | Ash Harris (Ecologist)  | Position: | Director                                                                       |
| Company Name: | Ecological Services Ltd |           |                                                                                |
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|               |                           |           |                                                          |
|---------------|---------------------------|-----------|----------------------------------------------------------|
| Name:         | Sam Shove (Otter Fencing) | Position: | Senior Ecologist                                         |
| Company Name: | TACP                      |           |                                                          |
| Address:      |                           |           |                                                          |
| Telephone:    | 02920 228966              | Email:    | <a href="mailto:sshove@tacp.co.uk">sshove@tacp.co.uk</a> |



## Environmental Policy

### CBUK ENVIRONMENTAL POLICY STATEMENT

It is Cleveland Bridge UK Limited policy to develop an environmental and caring approach and to manage all activities to give benefit to the community at large. The company will meet the relevant regulations and ensure the environmental impact is reduced to a practicable minimum.

#### CBUK ENVIRONMENTAL POLICY OBJECTIVES ARE:

- Reduce material waste wherever possible and where practical, utilise materials and products that are environmentally friendly and can be recycled or reused.
- Ensure that its developments are sympathetic to the environment, paying attention to the treatment and disposal of any hazardous or potentially toxic waste materials to avoid environmental issues.
- Pay attention during manufacture and construction activities to the emissions or pollutants, reduction in noise and general dust, taking the most stringent precautions to avoid health hazards and ensuring that environmental issues are reduced.
- Develop and promote energy efficiency amongst employees.
- Promote awareness of environmental management systems and encourage active support from all employees to ensure effectiveness of this policy.
- Carry out risk assessments to establish environmental targets and objectives.
- Set annual targets and objectives in order to continually improve our environmental performance.
- Monitor our environmental performance against the targets and objectives during review meetings and take corrective actions.
- Ensure all site activities undertaken as either principle or sub-contractors are covered by a waste management plan ensuring all waste streams are correctly disposed of by licenced contractors.

The effectiveness of the policy depends on the cooperation and active support of all employees. Therefore, roles and responsibilities are detailed in the SHE Manual, with additional responsibilities detailed in the Network Rail procedure for work on Network Rail projects and its infrastructure. Provision is made for employees and their representatives to be consulted on matters which affect the environment at work and in connection with any responsibility or duty which may be assigned to them for the purpose of implementing this policy.

Training, information, instruction and supervision will be provided to ensure activities are carried out with minimal environmental impact.

An open and honest approach is seen as critical to maintain and improve environmental performance and as such an open-door policy applies.

The Policy together with the Company SHE Manual, Network Rail procedure and Register of Legislation and Codes of Practice will be reviewed annually and, where necessary amended to consider new legislation and Codes of Practice. Such amendments or changes thereto may only be authorised by the Managing Director.

This Policy is applicable wherever Cleveland Bridge UK Limited carries out operations.

Signed:

Date:



13/1/21

**Chris Droogan** Managing Director  
Cleveland Bridge UK Limited

CBUK's Environmental Policy Statement is reviewed annually by the Executive Management team and signed by the Managing Director.



This policy will be displayed on site notice boards and communicated to employees and sub-contractors through the weekly toolbox talks.

An environmental aspect and impacts assessment have been completed for the project which can be found in Appendix A

Several significant environmental impacts have been identified.

Targets and responsibilities are stated for the significant impacts register.

The overall environmental objectives for the project are stated.

The client pre-tender information identified relevant environmental information, which has been taken into consideration during the development of this management plan.

Any incident will be recorded on form EHS-F-535 Environmental Incident Report.

## Legislation, Regulations and Other Requirements

CBUK will carry out the contract in compliance with all applicable UK legislation. A list of relevant legislation and standards is shown below.

CBUK accepts that any procedures contained within this Plan do not prejudice any statutory requirements and guidelines that may be in force at any time during the project period.

|    | RELEVANT & CURRENT ENVIRONMENTAL LEGISLATION:                                                                     |   |  |
|----|-------------------------------------------------------------------------------------------------------------------|---|--|
| 1  | Clean Air Act 1993                                                                                                | x |  |
| 2  | Contaminated Land (England) Regulations 2006 amended 2012                                                         |   |  |
| 3  | Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations 1991 (SI 1624) as amended in 1998 | x |  |
| 4  | Conservation (Natural Habitats, & ....) Regulations 1994 and amendments 2007 & 2009                               | x |  |
| 5  | Controlled Waste Regulations 2012                                                                                 | x |  |
| 6  | Control of Noise (Codes of Practice for Construction and Open Sites) Order 2015                                   | x |  |
| 7  | Control of Pollution Act 1974                                                                                     | x |  |
| 8  | Control of Pollution Act 1974 – Part III S.57-61                                                                  | x |  |
| 9  | Control of Pollution (Amendment) Act 1989                                                                         | x |  |
| 10 | Control of Pollution (Applications, Appeals and Registers) Regulations 1996                                       | x |  |
| 11 | Control of Pollution (Oil Storage) (England) Regulations 2001                                                     |   |  |

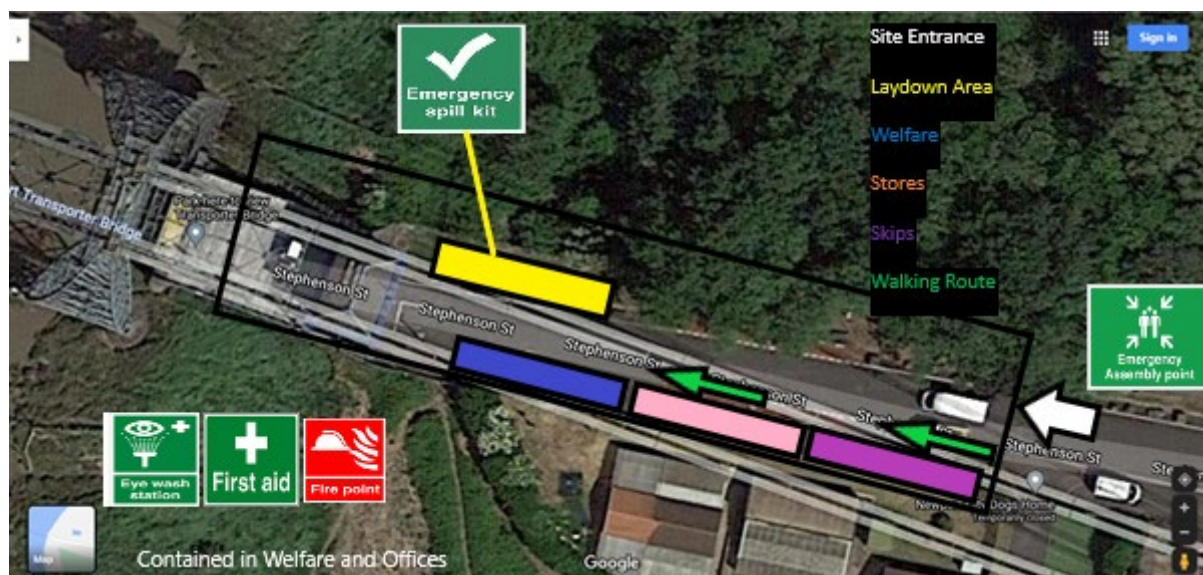
|     |                                                                                                |   |  |
|-----|------------------------------------------------------------------------------------------------|---|--|
| 12  | Control of Substances Hazardous to Health Regulations 2002 amended 2004                        | x |  |
| 13  | Countryside Act 1968                                                                           |   |  |
| 14  | Countryside and Rights of Way Act 2000                                                         |   |  |
| 15  | Environmental Civil Sanctions Order 2010                                                       |   |  |
| 16  | Environmental Damage (Prevention and Remediation) Regulations 2015                             | x |  |
| 17  | Environmental Noise, Site Waste Management Plans and Spreadable Fats Regulations 2013          | x |  |
| 18  | Environmental Permitting (England and Wales) Regulations 2010 amended 2016                     | x |  |
| 19  | Environmental Protection Act 1990                                                              | x |  |
| 19a | Waste (England & Wales) Regulations 2011 Amend 2012, 2014                                      | x |  |
| 20  | Hazardous Waste (England and Wales) Regulations 2005 and amendment in 2009 & 2016              | x |  |
| 21  | Hedgerows Regulations 1997                                                                     |   |  |
| 22  | Noise Emissions in the Environment by Equipment for use Outdoors Regulations 2001 amended 2015 | x |  |
| 23  | Noise and Statutory Nuisance Act 1993                                                          | x |  |
| 24  | Prevention of Oil Pollution Act 1971                                                           | x |  |
| 25  | Protection of Badgers Act 1992                                                                 |   |  |
| 26  | Scrap Metal Dealers Act 2013                                                                   |   |  |
| 27  | Sewerage (Scotland) Act 1968                                                                   |   |  |
| 28  | Town and Country Planning Act 1990                                                             |   |  |
| 29  | Trade Effluent (Prescribed processes and substances) Regulations 1898 amend 1992               | x |  |
| 30  | Waste (England and Wales) Regulations 2011 amended 2014                                        | x |  |
| 31  | Water Industry Act 1991 (as amended by WIA 1999 and Water Act 2003)                            |   |  |
| 32  | Water Resources Act 1991 (as amended by Water Act 2003) amend 2009                             |   |  |
| 33  | Wildlife and Countryside Act 1981 amended 2004                                                 |   |  |

## Environmental Objectives and Targets

| Objective                                                                                                            | Target                                                   | Measure                                                                 | Responsibility    |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------|-------------------|
| Ensure the health, safety and welfare of all workers associated with the project                                     | Zero RIDDOR reportable injuries or dangerous occurrences | Monitor project AFR and report on accident/ incident statistics monthly | Contracts Manager |
| Ensure all substances/ chemicals are stored, dispensed and used in accordance with legislation and company standards | Zero environmental spillages                             | Monitor and report on monthly                                           | Contracts Manager |
| Minimise the impact upon the local environment specifically protected species                                        | Zero complaints from the environment agency              | Monitor and report on monthly                                           | Contracts Manager |

## Environment Management Plan

This Environmental Management Plan shall be reviewed by site management every month, to ensure the contents remain valid. The findings of each review will be reported at the progress meetings.



CBUK have the perimeter of compound secured using herras fencing. This will be locked at the main entrance with the code held by CBUK personnel.

Welfare will consist of x 2 21ft offices double stacked with stair access. A 21ft canteen and 21ft drying room double stacked with stair access and a toilet block containing both male and female toilets. All welfare to contain fire extinguishers as well as first aid kits in case of emergency. These will be hard wired to the motor house on Stephenson Street as agreed with NORSE.

Site storage will consist of a 40ft store along with a 20ft COSHH/Paint stores. Spill kits will be available in the stores in case of any accidental spillage.

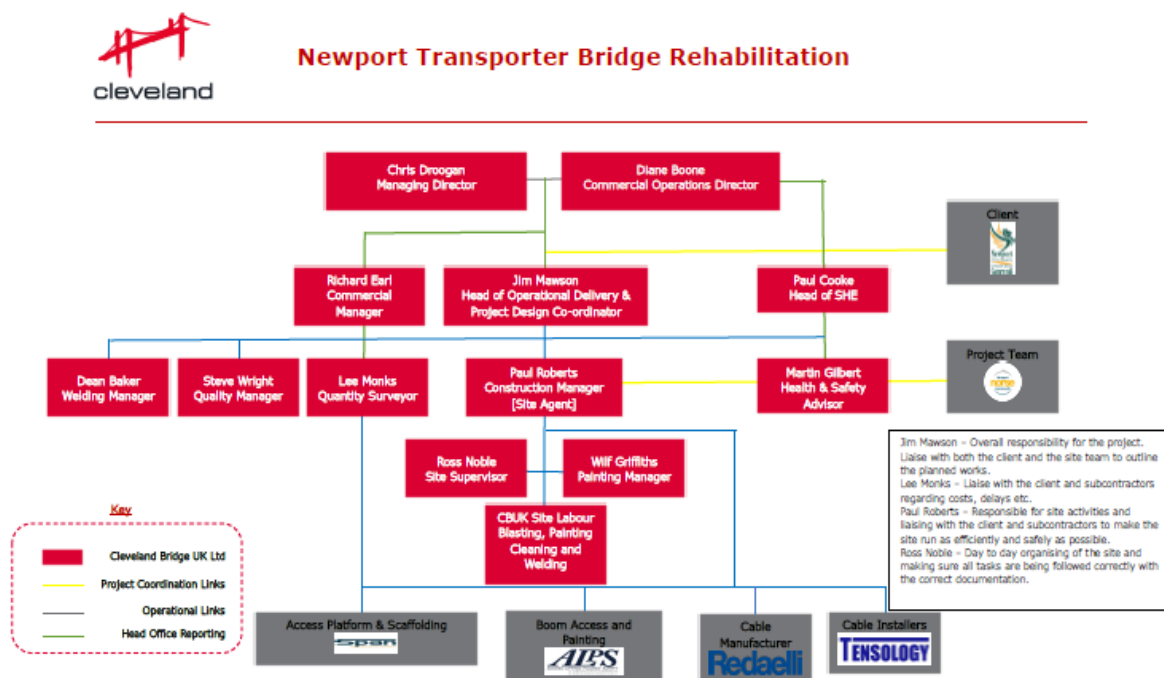
The laydown area will be kept clean at all times and will be the area in which refuelling takes place. There will be spill kits available throughout the site and CBUK supervision will maintain their levels throughout the project.

All walking routes will be barriered off using pedestrian barriers and will be kept in good order.

## Structure and Responsibility

The Person with overall responsibility for compliance with this Environmental Management Plan and associated standards / legislation is the Construction Manager.

The project organisation chart is shown below and in Appendix K:



## **Training, Awareness and Competence**

CBUK employees receive environmental awareness training as part of the company's core training. In addition, site personnel receive training in site procedures for preventing and controlling environmental hazards and emergency response.

Site employees and sub-contractors receive site specific information during the site induction and is reinforced at regular intervals during the weekly toolbox talk programme. Each toolbox talk will be relevant to the works CBUK are carrying out during that week.

No person will be allowed to work on site until they have been fully inducted and briefed on the works they are carrying out.

## **Internal Communication**

The Company's Environmental Policy Statement will be displayed on site notice boards and communicated to employees and sub-contractors through the weekly toolbox talks.

Regular site meetings will be used to communicate and discuss environmental issues associated with the project.

In addition, incidents and other environmental issues will be brought to the attention of the client's representative within 24 hours of the company becoming aware.

## **External Communication**

CBUK Construction Manager will work closely with the NORSE and NCC to ensure that any issues or complaints are dealt with as efficiently as possible.

The contact details of the individual will be named at the site entrance along with being communicated to NORSE and NCC.

In addition, the company provide written notification to all parties affected by environmental impacts at least 14 days in advance of the work and provide details on how to report an environmental complaint to CBUK.

## **Operational Control**

Adequate controls for the aspects of operation are highlighted in the Register of Significant Environmental Aspects and Impacts (Appendix B)

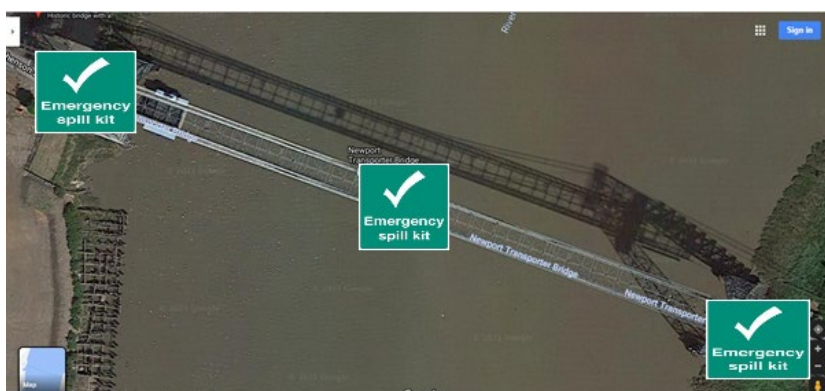
## Emergency Contacts and Procedures

| EMERGENCY CONTACT NUMBERS                               |                            |               |
|---------------------------------------------------------|----------------------------|---------------|
| PROJECT NAME:                                           | Newport Transporter Bridge |               |
| Name:                                                   | Position:                  | Tel. Number:  |
| Jim Mawson                                              | Operations Manager         | 07932 948522  |
| Paul Roberts                                            | Construction Manager       | 07519 121037  |
| Martin Gilbert                                          | Health and Safety Advisor  | 07771 554108  |
| Ross Noble                                              | General Foreman            | 07809 880296  |
| GAS                                                     |                            |               |
| Wales and West Utilities                                |                            | 0800 912 2999 |
| BT                                                      | 0800 023 2023              |               |
| OR DIAL 100 ASK FOR FREEPHONE 111 - DIAL BEFORE YOU DIG |                            |               |
| Electricity                                             | 0800 052 0400              |               |
| Environmental Agency                                    | 0300 065 3000              |               |
| EMERGENCY SERVICES                                      | 999                        |               |

## COSHH Procedures

Any Hazardous substance on site will be recorded on from EHS-F-340 COSHH Form (Appendix E)

Spill kit locations on the bridge are shown below and locations around site are shown in the site plan.



Where substances which are hazardous to the environment are required to be used control

**Cleveland Bridge UK Ltd**  
Cleveland House  
Yarm Road, Darlington  
County Durham, DL1 4DE

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info@clevelandbridge.com

Cleveland Bridge UK Ltd. is registered in England and Wales at the above address No. 3749601



measures will be put in place so that potential risk to the environment is minimised.

Where substances are classed as hazardous, they will be disposed of by licensed waste disposal contractor as set out in the COSHH regulations.

A special skip will be utilised in the site compound to contain the lead contaminated waste and a further to remove any paint waste. Upon removal by the licensed waste carrier CBUK will keep all waste transfer notes and have them stored on CBUK's online system.

Any spillages must be reported to the supervisor immediately who will manage an exclusion zone around the spillage and arrange for contaminated materials to be disposed of in skips or removed from site to be disposed of in accordance with Waste and Environmental legislation.

Waste created during any welding activities such as spent grinding wheels, welding rod ends, and surplus welding wire will be bagged up for disposal in the designated skip.

All static plant will be double bunded and/or sat on a plant nappy. Care will be taken when refuelling such items and checks of spill kits and seating of the plant will always be made to ensure that should any spill occur, there would be no issue in cleaning it right away.

Spill kits will be available around the site and regular maintenance undertaken to ensure that there are adequate materials should an incident occur. Operatives will be briefed on the importance of reporting spills and the use of materials in the spill kits to ensure there are always items available.

CBUK will be providing a 20ft paint store on site and a lockable COSHH box. Access to these will only be through CBUK supervision these will remain locked when not in use.

CBUK will use form EHS-F-340 COSHH Issue Register (Appendix D) to monitor the hazardous substances out on site and manage the quantities to reduce have unnecessary substances on site.

### **Refuelling Note:**

Refuelling will not take place within 50m of any watercourse or 10m of any drainage ditches.

Site will have a designated refuelling area which is shown in the site plan (page 10).

A double bunded fuel bowser will be retained on site.

Good pollution prevention MUST be in place and used at ALL times, including preventing silts, hydrocarbons (fuel & oils) or concrete wash-out soaking into the ground.

Only staff trained to refuel plant will undertake this operation. A spill kit will be located adjacent to the welfare unit and those working in the area will be briefed on its use. Plant will be checked prior to starting work to ensure fuel and hydraulic lines are not damaged and in good working order.



### **Spill Kit Use Instructions:**

**STOP → CONTAIN → ABSORB → CLEAN → REPORT**

#### **STOP**

Wherever possible try to isolate the area of spillage with caution tape or a suitable warning device to prevent other people becoming part of incident. Extinguish all cigarettes and naked flames and try to keep upwind of the spillage.

#### **CONTAIN**

Granules: Add water and knead to form putty which can be used to seal or plug holes in tanks and drums.

Absorbent booms: Filled with absorbent material and can be used to surround a spillage in isolation or in conjunction with the granules.

#### **ABSORB**

Pads/ Sheets/ Mats: use directly on the liquid to absorb and recover it. Will float on water whilst absorbing hydrocarbons.

Granules: Will absorb liquid if sprinkled over top.

Booms: Can be used to absorb as well as contain spillages.

#### **CLEAN**

When all the spilt liquid has been absorbed and recovered, a final clean-up of the area should be carried out to ensure there is no slip hazard.

Dispose of the used materials in hazardous waste bins. Use the heavy-duty plastic bags provided in the spill kit. Never put hazardous waste into a general skip.

#### **REPORT**

Report all spillages to you supervisor/ Site Manager/ SHES Manager. Please advise what materials were used in the clean-up.

Below are photographs of typical plant nappies and spill kits CBUK use:



Any incident will be recorded on form - EHS-F-535 Environmental Incident Report

CBUK site personnel shall conduct a formal safety & environmental inspection on a weekly basis in accordance with the Weekly Site Checklist as noted within the Construction Phase Health & Safety Plan.

In addition, the Construction manager will conduct an inspection every month.

A member of the company SAFETY TEAM will visit site and conduct an audit periodically.

## Non-Compliance, Corrective and Preventive Action

The company's documented procedures for dealing with and closing out non-compliances will be used by site management to identify corrective and preventive action and monitor progress until completion of the agreed actions.

## Records

Records of environmental risks, incidents and information on environmental control measures will be kept in the site filing system and will form part of the Hand back Package in the Health and Safety File.

Any incident will be recorded on form - EHS-F-535 Environmental Incident Report

## Waste and Energy Management Plan

The plan identifies:

- The waste types that will be generated during the project and their waste classification.
- Opportunities for reuse and/or recycling.
- The proposed method of storage, handling, and transportation of waste.

### Waste Carriers License

Any company which carries waste is required under the Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations 1991 must have a Waste Carriers License. We would require a copy of this prior to anyone commencing work (photocopies acceptable).

### Duty of Care for Waste:

We have a duty of care for all waste produced on site regardless of who produces it. Under this duty of care, we must demonstrate that we know where all our waste has gone and that it was disposed of within the auspices of the law. We therefore require copies of waste transfer notes for all waste leaving site including that removed by sub-contractors. These will be kept on CBUK system in a designated folder which identifies the date and type of waste removed along with an example of the spreadsheet which is detailed below.

| Number | Date     | Time  | Carrier       | Waste Type    | Size    |
|--------|----------|-------|---------------|---------------|---------|
| 1      | 15/07/21 | 07:00 | Skip Hire LTD | General Waste | 12 Yard |
|        |          |       |               |               |         |
|        |          |       |               |               |         |
|        |          |       |               |               |         |

Various skips will be onsite over the duration of the contract and will cover all aspects of waste. Typical waste from the project will be:

- Timber
- Steel
- General Waste – domestic canteen waste
- Hazardous (Paint containing grit)
- Waste-water – grey water
- Metal
- Plastic wrapping (deliveries)
- Food Waste

Typical Skips will be:

- Timber
- Metal

- General
- Hazardous
- Plastic

## Waste Minimisation

The company will carry out the works in such a way that, so far as is practicable, the amount of waste to be disposed of is minimised. Any opportunities to recycle waste will be identified and carried out. For example:

- Timbers from the landing bridge re-used where possible.
- Steel reused or recycled.
- Timber pallets stored and used for returns.

CBUK will take precaution as to only order material on time to ensure the risk of over ordering and therefore cut the potential for excess waste.

Typical waste CBUK will generated shown above.

## 2. MANAGING SIGNIFICANT ENVIRONMENTAL ASPECTS

CBUK will employ the 'Best Practicable Means' to eliminate or minimise the environmental impact of the aspects identified within this plan.

The environmental aspects are recorded in Appendix A. The environmental issues recorded in this table take legislation, contractual requirements, and environmental objectives into account.

Measures to mitigate all Environmental Impacts are specified within the Aspect / Impacts Register.

### Permissions and Consents

All permissions and consents have been identified and will be maintained in a schedule agreed with the Client identifying responsibilities for obtaining these permissions and consents.

Those identified in the programme for obtaining permissions and consents must secure all environmental consents and permits and consult / liaise with all bodies considered necessary in relation to environmental issues. No agreement should be made, or commitment entered into without the prior approval of the CBUK Project Manager.

### Environmental Design Management

Where CBUK are involved in the design of any element of the project, the company will assess the environmental aspects and impacts (positive and negative) of the detailed design, which

may include material changes to the existing environment, the use of energy and natural resources, the emission of pollutants, the creation of nuisance and the elimination of waste.

As significant environmental aspects and impacts are identified, the designer will establish environmental design aims that:

- Prevent, reduce or where possible remedy any significant negative impacts that might present a risk to the project and programme of works.
- Achieve best practicable environmental performance through innovative design.

These environmental design aims and the measures that are proposed to achieve them will be reported within the final design specification. On completion of the detailed design stage, the designer will produce a revised register of significant environmental aspects and impacts for use during implementation of the design. Where environmental risks and impacts are reduced through the design process, the register of significant environmental aspects and impacts, will be updated accordingly.

The CBUK arrangements for dealing with design are detailed in the fully developed design control procedures within the quality management system (Design Management, Management of External Designers, Design Manager & Co-ordinator Responsibilities).

During the design process, the CBUK Design Co-ordinator, in liaison with the design teams, has endeavoured to “design out” hazards of construction, maintenance and cleaning of the structure, or where this is not possible, to minimise the risks of such hazards, as is required by Regulation 7 and 11 of the CDM Regulations.

Where it has not been practicable to remove a hazard completely, there will be a residual risk. Designers’ Risk Assessments/Risk Log shall be updated, as required, throughout the design and construction process and communicated with the CDM Principal Designer as required. (Design Risk Assessment).

The responsibility of the Design Co-ordinator is to ensure:

- Designers have sufficient information to undertake design.
- Design output is produced on programme.
- Technical queries are resolved in a timely manner.
- Multi-Disciplined design has Inter disciplinary checks undertaken.
- Documented design review meetings are held at appropriate intervals and minutes distributed.
- Checking Process, as required by the contract is undertaken.
- Design and Check Certificates are produced which reference applicable standards.
- Design documentation and drawings are issued in a controlled manner.
- Design is developed to eliminate or mitigate risks i.e., Design Risk Assessments undertaken and reviewed regularly at the Design Review Meetings.

## Traffic Management Plan

During the duration of the contract CBUK will have their site compound established on



Stephenson Street which CBUK have applied for a temporary traffic order from Newport City Council.

When works are agreed and planned for the removal of the boom anchor cables on the West side of the Bridge, CBUK will apply for a temporary road closure on the A48. The closure will be established and controlled by an agreed Traffic Management contractor.

CBUK will manage this aspect and liaise with NORSE and NCC for the best plan to reduce the impact caused to the environment or residents.

Below is a typical Traffic Management scheme used by CBUK.



## Noise and Vibration Management Plan

### Working Hours

A key method of limiting nuisance is the restriction of working hours. Site hours are shown below:

Monday – Friday 07:00 – 18:00

Weekend Working – 07:00 -18:00 (Weekend working will be rare and agreed with the client)

### Risks

- The site lies near to an industrial and residential area, where noise and vibration from the works could result in disturbance to residents and businesses. These are likely to be more sensitive to nuisance (noise, vibration, and dust) from the works during the COVID 19 period, especially if residents are housebound or working from home. This has been covered in CBUK Covid 19 RA (SRA-COV 01 and SRA-COV 02)
- There is a dog's boarding kennel next to the site. Noise impacts are likely to result in nuisance during the day as dogs and staff will be always present.
- Local authority enforcing a prohibition notice on the site or a particular activity due to excessive noise or vibration.

- Disturbance to the ecology of the surrounding area due to excessive noise, vibration, and dust.

## Controls

- Neighbours to be informed when any noisy work is being carried out.
- Plant will be shut down when not in use.
- Loads will be lowered rather than dropped.
- Acoustic shields will be utilized around items of static plant.
- Enclose working areas within scaffold and gantry enclosures with polythene sheeting/tarpaulins to be as close as possible to the source of the noise.
- Have pre-drilled holes in materials rather than drill on site.
- Use electric motors in preference to diesel or petrol engines.
- Do not leave equipment idling.
- Carry out regular maintenance.

## Noise Monitoring

Monitoring will be carried out as a reaction to complaints or concerns from the project team to ensure that the noise which is generated by the site falls within the agreed acceptable limits.

## Vibration

CBUK will not be carrying out any works that will produce an amount of vibration to cause disruption to the surrounding area and wildlife.

## Complaints and Help line

The Construction Manager will be available to receive any calls regarding the works and the site telephone number will be displayed at the site entrance to allow residents and businesses to make contact should there be any enquiries.

Paul Roberts - 07566799089

These details will also be made available to the public and other interested parties at meetings, letter drops etc.

Complaints will be recorded and dealt with in accordance with the company's complaints procedure to ensure the issue is investigated and resolved.

## Dust

The Company will take all reasonably practicable measures to avoid nuisance dust arising from operations carried out on the site.

CBUK operations which are likely to cause substantial amounts of dust will be:

- Blasting
- Grinding
- Removal of timbers (decking on landing bridge)
- Deliveries

Before work commences on the bridge structure, CBUK will have an access platform installed at Boom level and 30m of the 60m structure will be fully encapsulated to prevent any dust or debris from works being released. Upon completion of the works within the 30m encapsulated area, CBUK will have pre-planned to have the encapsulation moved to the next work location. The encapsulation has been designed for only the 30m of encapsulation to allow this to be left in situ whilst the works are being carried out. This will minimise risk for erecting and dismantling daily and also reduce the time to carry out these works.

Appendix L contains detailed drawings of the access platforms.

CBUK will use tried and trusted methods that have been implemented on previous contracts such as the Humber Bridge Cable Inspection Project.

Upon arrival at the encapsulated area the CBUK supervisor will inspect the encapsulation to make sure there has been no damage caused which would allow any contaminants to be released. Once they have completed there checks of the area they will then allow any works that will cause dust to be released to begin.

CBUK operatives will continually be clearing the work areas to make sure there will not be an excessive build up of debris and therefore minimise the risk of any material exiting the encapsulated area and into the environment.

All debris will be hoovered into a HEPA vacuum and transferred into rubble bags which will be doubled up ready to be placed into the designated lead waste skip. (The paint analysis report showing the lead content is shown in Appendix F)

CBUK will remove all debris regularly using the access cradle provided by ALPS. All operative will be trained on the use of this and care will be taken as to not exceed the SWL.

During the refurbishment of the Gondola, CBUK will again have a fully encapsulated scaffold top prevent any dust or debris from entering any watercourse. (Appendix L for these drawings)

CBUK will use the exact same control measures of having the encapsulation checked at the start of each shift before any works can begin to be carried out.

All debris will be removed and disposed of in the same way as the high level works. However, due to the Gondola being parked at the Western approach the removal will be a case of placing the bags directly onto a trailer and then taken and placed into the designated skip in the site compound.

The works that is being carried out to the Eastern approach will be require a site visit from an Ecologist to agree the best methods to carry out works in this area and keep any contaminants from entering the watercourse or surrounding areas. Upon agreement from both CBUK and the Ecologist, a detailed set of RAMS will be issued to the client for acceptance before any work is

due to commence.

Measures that CBUK will have in place will be encapsulation and extraction, Typical photos of equipment and measures are shown below:



## Air Pollution

The Company will take all reasonably practicable measures to prevent the occurrence of smoke emissions or fumes from plant, construction traffic, stored fuel oils and other substances.

All plant will be kept in good repair, conform with the manufacturers or legislative emissions standards, and will not be left running when not in use.

All fuel will be kept in a bunded fuel bowser and refuelling will be carried out in the designated area within the site compound. All operatives will be briefed on the importance of using plant nappies or drip trays when refuelling.

Spill kits will be provided throughout the site compound and work areas and where an incident has occurred and the spill kit has been used, the absorbents will be disposed of by a licensed

waste operator.

## Lead

Lead has been identified in the paint report provided in the pre-construction information paint inspection (Appendix F)

|                                                                                     |  |                                                                                         |                                                                                      |                                                                                    |  |
|-------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|
|    |  | <b>Document Type: Coating Survey Report</b><br>Ref: Newport Transporter Bridge - 1441/1 |                                                                                      |  |  |
| <b>Paint Inspection Ltd</b><br>61 High Street<br>Fareham<br>PO16 7BG                |  | <b>Client</b>                                                                           |                                                                                      | Curtins                                                                            |  |
|                                                                                     |  | <b>Client Address</b>                                                                   |                                                                                      | 3 Cwrt-y-Parc, Earlswood Road, Cardiff, CF14 5GH                                   |  |
|                                                                                     |  | <b>Contact Name</b>                                                                     |                                                                                      | Samuel McCourt de Sanchez                                                          |  |
|                                                                                     |  | <b>Contact Phone</b>                                                                    |                                                                                      | 029 2068 0900                                                                      |  |
| <b>Reporting Inspector</b>                                                          |  | Ian Patterson ICorr level 3                                                             |                                                                                      | <b>Visit Date(s)</b>                                                               |  |
| <b>Authorised By</b>                                                                |  | Ian Patterson ICorr level 3                                                             |                                                                                      | <b># of Visits</b>                                                                 |  |
| <b>Report Authorised</b>                                                            |  | 07-08-2019                                                                              |                                                                                      | <b>Description</b>                                                                 |  |
|                                                                                     |  |                                                                                         |                                                                                      | Original Document                                                                  |  |
| <b>Project Details</b>                                                              |  |                                                                                         |                                                                                      |                                                                                    |  |
| <b>Project Name</b>                                                                 |  | Newport Transporter Bridge                                                              |                                                                                      | <b>Historical Information</b>                                                      |  |
|                                                                                     |  |                                                                                         |                                                                                      | No                                                                                 |  |
| <b>Asset Name (Number)</b>                                                          |  | Newport Transporter Bridge                                                              |                                                                                      | <b>Previous Painting Programme</b>                                                 |  |
|                                                                                     |  |                                                                                         |                                                                                      | No                                                                                 |  |
| <b>Site Address</b>                                                                 |  | Newport, Wales                                                                          |                                                                                      | <b>Existing Paint Info</b>                                                         |  |
|                                                                                     |  |                                                                                         |                                                                                      | No                                                                                 |  |
|  |  |                                                                                         |  |                                                                                    |  |

This document shows varying levels of Lead in different locations so CBUK will be following The Control of Lead at Work Regulations 2002.

CBUK will have blood taken at regular intervals to ensure that all employees are within the limits the are not harmful to health.

CBUK will carry out the same techniques used on previous contracts including:

- The use of full face mask.
- Health monitoring.
- Hygiene reinforced.

Where any employee is found to have elevated levels they will be removed from any tasks in

which they are likely to encounter more lead particles. CBUK will then review their procedures and makes sure of compliance.

## **Interference with Drains, Springs, and Watercourses**

All drains and watercourses encountered through the construction process will be preserved using catch nets to prevent the reduction in their original flow.

The River Usk running through the work area and care and attention will be taken to prevent contaminants into the water course through CBUK work activities.

CBUK have identified task such as painting and blasting that are high risk and will apply solutions used throughout previous contracts. These items will include but are not limited to:

- Encapsulated Scaffolding
- Drip Trays
- Regular cleaning

All plant and materials with the potential to cause an environmental issue will be kept in plant nappies, and when not in use stored in the relevant COSHH store.

All connections to mains, drains, pipes, watercourses, or other utilities will only be carried out after gaining the correct approval.

## **Hydrology and Aquatic Resources**

The Company will take all reasonable steps to avoid lowering the existing water quality of surface or groundwater and comply with any environmental standards such as aquifer protection zones, river water quality objectives and water quality standards. The use of herbicides will be subject to any restrictions in force, and records will be maintained of all applications made. CBUK will install catch nets to gullies to prevent any contaminants or debris from the site compound escaping into the watercourse or drainage systems.

The storage of hazardous substances including oils will include the provision of properly bunded areas so that in the event of a spillage or leakage no oil or other contaminant will be allowed to reach water courses or groundwater, including aquifers.

Spill Kits will be always on site if any fuels. Oils, lubricants, or hazardous liquid substances are discharged onto the ground. Site operatives will be trained in the use of Spill Kits and these will be regularly inspected and maintained.

All re-fuelling will take place in a designated re-fuelling area within the site compound where Spill Kits will be available.

## **Archaeology**

If potential archaeological remains are discovered, the Company will stop working and seek advice from a known authority to determine the nature of the remains. The only area which could have the potential is below the vehicle ramp on the Stephenson Street approach. The site will



be protected during this process, and work will only continue after agreement has been reached with all concerned parties on the most suitable method.

## Built Heritage

Where work is carried out on listed buildings and/or structures and conservation areas the Company will ensure that the impact is minimised wherever possible. All consents will be fulfilled in advance to works proceeding.

CBUK are aware of the Newport Transporter Bridge being Grade 1 listed and will accommodate as far as reasonably practicable the balance between engineering and heritage. CBUK will liaise with the client and designers and all agree on the best paths to provide the best product which keeps a hold of the bridges history yet providing the quality and efficiency of modern methods.

## Ecology

The Company will comply with the relevant statutory provisions in respect of the protection of areas of nature conservation interest and of protected species and will as far as is reasonably practicable control and limit any disturbance to such areas.

CBUK have referred to the Ecology report carried out on behalf of NORSE and issued in the pre- construction information. (Appendix G)

CBUK will carry out regular toolbox talks outlining the risks and actions to take to minimise any disruptions to animals and the environment.

Areas in which CBUK will have measures in place will be inclusive but not limited to the following.

### Drainage:

- Catch nets.
- Compound kept tidy.
- Materials kept in stores.

### River Usk:

- Encapsulated scaffolds.
- Work areas kept clean.
- No unnecessary items on bridge.

### Otters:

- Fencing (to be in place prior to working within 20m of the water as per planning consent)
- Lighting only used when necessary.
- Site machinery switched off when not in use.
- Fencing to be left off at Eastern approach due to the tide.

### Bats:



- No night working (out with the pre-planned removal of boom cables)
- Specific toolbox talk on legal protection of bats.

#### Nesting Birds:

- If found on bridge structure, contact ecologist for advice.
- Cordon off area.

#### Fish:

- Scaffolds encapsulated.
- Minimal items at work area.

#### Fields:

- Works areas kept tidy.
- Routine checks of surrounding area for site debris.
- Skips enclosed.

#### Trees and Hedgerows:

- Signage erected.
- Banksman used when on site.

## Landscape and Visual

The company will carry out its operations in such a manner to reduce, so far as is reasonably practicable, the disturbance to the landscape and townscape and the agreed restoration measures will be carried out in a timely manner.

CBUK will not be required to carry out any earthworks throughout the contract and therefore should cause no impact to the landscape.

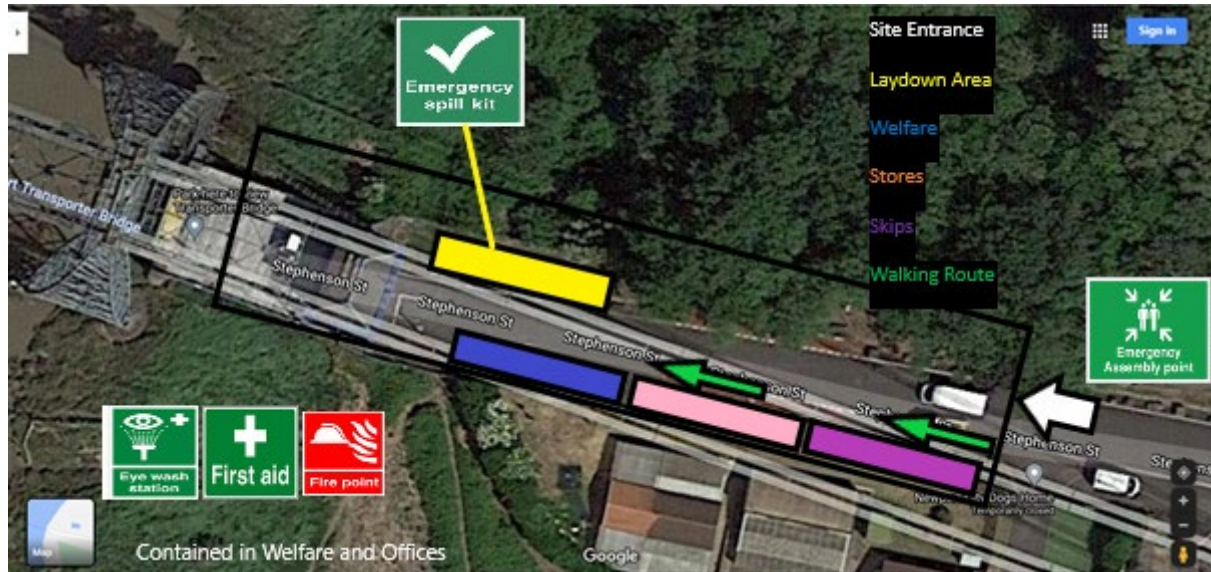
## Boundaries

Where the site is not naturally protected by existing retaining walls, parapets, or other barriers the Company will provide temporary fencing for public safety, to prevent visual intrusion and, where necessary, provide noise reduction barriers.

Due to the wildlife within the bridge area, CBUK will make the site as safe and secure as possible to prevent any wildlife from coming on site. Around the site boundary will be herras fencing with additional mesh added to the bottom of the panels to prevent any wildlife from entering (agreed with NORSE).

The Eastern approach will not have any fencing erected due to the tidal nature of the River Usk. NORSE have informed CBUK that an Ecologist believes that erecting fencing will likely cause more disturbance and harm to the existing wildlife and therefore their advice is to leave this off. Any work to the Eastern approach will need an ecologist to come to site and agree the best steps to cause as little amount of disruption to the habitat of the wildlife as possible.

The site boundary is shown clearly within the site layout shown below:



Where the public footpath is situated on the South West corner of the site compound, CBUK will use herras fencing and padlocks to prevent any members of the public entering the compound.

It is agreed that signage shall be erected by NORSE to warn any pedestrians of the closure before they reach the site compound.

## Lighting

Lighting which is to be used for security and safety will be maintained in such a state to prevent unnecessary interference with residents, road traffic or other warning or navigational lights.

CBUK main works will be carried out during the hours of daylight. Throughout the summer months CBUK will not require any artificial lighting due to daylight hours. During winter CBUK be required to use artificial lighting due to limited daylight hours. In this instance this will be limited to work areas such as painting encapsulation and only used when necessary.

The lighting arrangements for any particular activity are identified, assessed, and documented within method statements.

## Energy and Water

CBUK along with their subcontractors will try to reduce the use of energy and water as far as reasonably practicable. Below are a few examples:

- Energy efficient plant
- Flow restrictors

CBUK will be using the motor house at Stephenson Street and the supply at both the East and West of the boom to supply our site cabins and our work equipment.

Water will be kept at a minimum and will only be used for our site compound and painting activities.

## Method Statements

Method Statements are produced for all work activities. The agreed format and content of work packages complies with the requirements of contractual safety guidelines/applicable standards and 'Contract Requirements – Environment'.

## 3. Appendices

### Appendix A

Environmental Aspects / Impact Assessment  
Issued as separate document.

### Appendix B

Register of Significant Environmental Aspects and Impacts  
Issued as separate document.

### Appendix C

Environmental Incident Report  
Issued as a separate document.

### Appendix D

COSHH Issue Register  
Issued as a separate document.

### Appendix E

COSHH Form

Issued as a separate document.

## **Appendix F**

Newport Transporter Bridge Coating Report  
Issued as separate document.

## **Appendix G**

Ecology Report  
Issued as separate document.

## **Appendix H**

ECI Survey works  
Issued as separate document.

## **Appendix J**

NTB Report

Issued as separate document.

## **Appendix K**

Project Organisation Chart  
Issued as a separate document.

## **Appendix L**

Access Platform Drawings  
Issued as separate documents.