# CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

**at**

**33 Woodside Lane**
**Huddersfield**
**West Yorkshire**
**HD2 2HA**

**Client:**
**Acumen Designers & Architects**

**Client Address:**
**Old Leeds Road**
**Huddersfield**
**HD1 1SG**

**Client Contact:**
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**JCA Ref:**
**18185/AWe**

**Date of Report:**
**01/03/2022**



JCA Limited
Arboricultural & Ecological Consultants

# Quality Assurance

| **Desktop Survey Completed:** | | **Site Surveyed:** | | **Report Completed:** | | **Reviewed:** | |
|---|---|---|---|---|---|---|---|
| Date | Name | Date | Name | Date | Name | Date | Name |
| N/A | N/A | N/A | N/A | 01/03/22 | Adam West | 01/03/22 | Poppy McDermott |

This report has been prepared and provided in accordance with the *British Standard 42020: Biodiversity – Code of practice for planning and development 2018* and the *CIEEM's Code of Professional Conduct.*

| | |
|---|---|
| **Risk Assessment Completed** | N/A |
| **Bio-security Procedure Completed** | |
| **Lone Worker Procedure Completed** | |

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# 1. Introduction

## 1.1 Background

1.1.1 In April 2021, JCA Ltd was commissioned by Acumen esigners & Architects to produce a Construction Environmental Management Plan (CEMP) for a site located at 33 Woodside Lane, Huddersfield, West Yorkshire, HD2 2HA, hereafter referred to as 'the site'.

1.1.2 To support the fulfilment of the above brief the following have previously been undertaken:

- Arboricultural Method Statement (JCA, 2022)

1.1.3 Utilising the information from the above survey work, this current report details a CEMP with respect to foraging/commuting bats and nesting/foraging birds for the proposed development.

## 1.2 Scheme Description and Location

1.2.1 The site is located at Ordnance Survey (OS) National Grid Reference SE 14449 19980, with nearby postcode HD2 2AH. The site is bordered to the north by the ancient woodland of Upper Fell Greave, and on all other sides by areas of residential development with large, well-connected gardens.

1.2.2 The scheme is the construction of three residential dwellings with one detached garage.

## 1.3 Summary of Baseline Ecology Likely to Be Affected

1.3.1 JCA's Arboricultural Method Statement (JCA, 2021) details which trees are to be lost to development and which trees are to be retained. The trees on site could support nesting birds. Furthermore, the retained trees are valuable in their own right, but are susceptible to damage during the construction process.

1.3.2 The desk study revealed that adjacent to the site is an area of ancient woodland, which is high quality bat foraging habitat. (Please see Appendix 1). Obtrusive light has the potential to negatively affect the woodland edge, where bats prefer to forage, and interfere with bat commuting routes to this habitat.

1.3.3 Although the site lacks both the vegetation type and quantity required to support both foraging and hibernating hedgehogs, the proposed

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development may impact commuting hedgehogs.

Statutory designated sites

1.3.4 The MAGIC website revealed no nationally or internationally designated sites within 2km of the site.

## 1.4 Scope of the CEMP

1.4.1 This CEMP has been produced to remove or reduce the ecological impacts of construction works for the proposed development with regards to designated sites, foraging/roosting bats and foraging/nesting birds.

1.4.2 Through the implementation of appropriate mitigation measures, detrimental impacts and breaches of current UK wildlife legislation will be avoided. Without these measures there is the risk of adversely impacting protected species, such as disturbing, injuring or killing nesting birds, and disturbance to commuting and foraging bats.

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# 2. Aims and Objectives

## 2.1 Aim

2.1.1 Preservation and enhancement of the site's ecology, with regards to:

- Nesting birds;
- Bat behaviour (foraging, commuting); and
- Commuting hedgehogs.

## 2.2 Objectives

- To ensure no breach of UK wildlife legislation occurs on site for the duration of the proposed development.
- To protect foraging/nesting birds, foraging/commuting bats and commuting hedgehogs resulting from the proposed development and construction works; and
- To minimise damage to adjacent habitats as part of the final development.

## 2.3 Ecological issues

2.3.1 The priority ecological issues i.e., those that have legislative requirements or planning considerations and are relevant to the site and the proposed works, are as follows:

2.3.2 National legislation

Bats and their roosts are protected under the Conservation of Habitats and Species (Amended) (EU Exit) Regulations 2019.

Schedule 5 of the Wildlife and Countryside Act 1981 (as amended) makes it an offence to;

- Intentionally kill, injure or take any wild bird.
- Intentionally take, damage or destroy the nest of any wild bird while it is in use or being built.
- Intentionally take or destroy the egg of any wild bird.
- Have in one's possession or control any wild bird, dead or alive, or any part of a wild bird, which has been taken in contravention of the Act or the Protection of Birds Act 1954.

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- Have in one's possession or control any egg or part of an egg which has been taken in contravention of the Act or the Protection of Birds Act 1954.
- Use traps or similar items to kill, injure or take wild birds.
- Have in one's possession or control any bird of a species occurring on Schedule 4 of the Act unless registered, and in most cases ringed, in accordance with the Secretary of State's regulations (see Schedules).
- Intentionally or recklessly disturb any wild bird listed on Schedule 1 while it is nest building, or at a nest containing eggs or young, or disturb the dependent young of such a bird.

### 2.3.3 Planning considerations

NERC Act 2006 species of principal importance – There is suitable habitat to support species of principal importance within the proposed development site, i.e., bats and a wide range of passerine and wading birds.

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# 3. Desk Study Results

## 3.1 Environmental Policy

3.1.1 The project will be carried out in accordance with the policies / objectives listed below:

- The National Planning Policy Framework;
- Kirklees Council's Environmental Policy and procedures;
- The designer's environmental policy and procedures; and
- During the pre-construction and construction phases, management of the project will also need to comply with the Contractor's Environmental Policy and procedures.

## 3.2 Environmental Aspects and Impacts

3.2.1 Environmental objectives for the construction phase will be developed and should refer to legal compliance and environmental good practice, these will include:

- Zero pollution incidents; and
- Protect and where possible enhance biodiversity.

3.2.2 Procedures for monitoring construction processes against the project environmental objectives will be proposed by the Contractor and agreed with the Client Project Manager.

## 3.3 Training, Awareness and Competence

3.3.1 Site staff shall be competent to perform tasks that have the potential to cause a significant environmental impact. Competence is defined in terms of appropriate education, training, and experience. Project specific training is required, and the information provided in this CEMP, together with the findings of any pre-construction surveys or site checks may be used as part of this training.

3.3.2 Environmental awareness and training shall be achieved by:

- Site induction, including relevant environmental issues;
- Environmental posters and site notices;
- Method statement and risk assessment briefings;
- Toolbox talks, including instruction on incident response procedures; and

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- Key project-specific environmental issues briefings.

3.3.3 All managers and supervisors will be briefed on the CEMP.

3.3.4 Method Statements will be prepared for specific activities prior to the works commencing and will include environmental protection and mitigation measures and emergency preparedness appropriate to the activity covered. The Construction Site Manager will review key Method Statements prior to their issue.

3.3.5 Method Statement briefings will be given before personnel carry out key activities for the first time.

## 3.4 Evaluation of Compliance

3.4.1 The Contractor will define procedures for regular site surveillance to evaluate performance against legal requirements and the requirements of the CEMP.

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# 4. Operational Control procedures

## 4.1 General

4.1.1 Specific management proposals to be included in the CEMP are to be developed relating to the following topics:

- Site establishment;
- Pollution prevention;
- Protection of existing environmental features;
- Site housekeeping;

## 4.2 Site Establishment

4.2.1 Facilities will be established by the contractor to minimise risks to the environment and promote efficient use of resources. This will include:

- Temporary protective fencing will be erected to delineate the working areas, site boundaries, and protect sensitive features from disturbance.
- Provision of temporary offices, welfare facilities and secure storage of equipment.
- Any necessary fuel and oil will be stored in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001. Refuelling will only be undertaken in designated area, designed to contain contaminated runoff, and by trained personnel. Emergency spill kits will be readily available.
- Materials storage areas will be set up and managed.
- Waste segregation areas will be established utilising containers of an appropriate design to ensure that no waste can escape.
- Sewage effluent from the site office and welfare facilities will be removed from site, using a vacuum tanker, if no sewer connection is available.
- Temporary lighting will be designed to minimise spillage of light, and oriented away from features of ecological importance and residential properties.
- The temporary site compound will be reinstated to its former condition, suitable for agricultural use, following completion of the project.

## 4.3 Pollution Prevention

4.3.1 A pollution control and contingency plan will be developed by the Contractor to provide details of the measures to be implemented to

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prevent pollution and the actions to be taken in the event of an environmental incident or emergency. The pollution control plan will consider measures for reducing or removing impacts to the NERC 2006 priority habitat of the adjacent River Colne.

4.3.2 An 'environmental incident' is defined as any event, activity or condition that causes, or has the potential to cause harm to people, or damage to property or the environment. 'Pollution' is defined as any harmful impact on the local atmospheric, aquatic or land environment caused by release of hazardous or nuisance-causing substances or excessive noise and vibration.

4.3.3 Measures will be developed to control site runoff and prevent contamination. Account will be taken of the following good practice guidance: Regulatory guidance is available from GOV.UK. Current guidance explains how to: report an environmental incident, get permission to discharge to surface or groundwater, manage business and commercial waste, store oil and any oil storage regulations, discharge sewage with no mains drainage, work on or near water and manage water on land.

- PPG 1: Understanding your environmental responsibilities - good environmental practices.
- GPP 5: Works and maintenance in or near water.
- PPG 6: Working at construction and demolition sites.
- GPP 21: Pollution incident response planning.
- GPP 22: Dealing with spills.

## 4.4 Protection of Existing Environmental Features

4.4.1 Within the Desk Study for this CEMP, the woodland on the site's northern boundary has been identified as important for foraging bats in the local area.

4.4.2 Inappropriate lighting in the vicinity of the woodland edge can cause disturbance to foraging bats. At first instance, night-time working should be avoided. If this is not possible, any additional lighting that might be required onsite should not add to existing night-time light levels in proximity to the treeline. A lighting design scheme should also be incorporated into the proposed development plans. Below, we have prepared guidance in line with the information provided by the Institute of lighting Professionals (ILP, 2018) to aid in planning lighting schemes with the aim of further limiting the impact that lighting may have on local wildlife populations post development.

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It is important to avoid:

- Uniform levels of luminance across the site.
- Metal halide and florescent lighting.
- Upward tilting lighting that increases skyline luminance.

Instead, the following should be installed:

- Dark buffer zones.
- Screening in the form of vegetation, fences and structures.
- Appropriately designated darkened areas.
- Luminaries absent of UV elements
- LED luminaries with a sharp cut-off, low intensity and good rendition.
- Peak luminaire wavelength at a minimum of 550nm.
- Downward directional luminaires with upward light ratios of 0%
- Lower light columns to limit light spill.
- Recessed internal light fixtures.

4.4.3 The most important element of the lighting scheme is that no light spill is to fall into the offsite woodland.

4.4.4 Dark corridors are to be incorporated into the lighting scheme for the development to facilitate passage for commuting bats into the woodland.

4.4.5 If the measures and procedures above are followed, the adjacent treeline (and therefore commuting bats) will not be impacted by the proposed development.

4.4.6 A number of trees will be retained during the development. JCA (2022) have provided a method statement for the protection of these trees during construction. This method statement is to be followed throughout the construction phase.

## 4.5 Site Housekeeping

4.5.1 A ‘good housekeeping’ policy will be adopted across the site. This will

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include the following requirements:

- No fires on site.
- Disposal of waste in designated areas.
- Removal of food waste and other rubbish at frequent intervals.
- Maintenance of cleanliness surrounding the site.

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# 5. References

JCA (2022) *Arboricultural Method Statement to BS 5837:2012. Ref: 18185-A/AJB*

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# Appendices

# Appendix 1: Author Qualifications

## Consulting Staff: Ecology

**Adam West, Principal Ecologist**

*BSc (Hons) Animal and Wildlife Management.*

Adam joined JCA to lead the expanding ecology department. Having returned to education as a mature student, Adam studied Countryside Management for two years before undertaking a Batchelor's degree, for which he was awarded First Class Honours. Adam has many years' experience in ecological consultancy, working on projects ranging from individual planning applications to national infrastructure projects. Adam holds a Natural England Level 1 great crested newt survey class licence, and a Natural England Level 2 bat survey class licence (and the Scottish and Welsh equivalents).

**Poppy McDermott**

*BSc (Hons) Ecology and Conservation*

Poppy joined JCA after completing her degree in Ecology and Conservation at Nottingham Trent University. She has gained practical experience in many survey techniques and report writing since joining JCA. Poppy currently holds a Natural England Level 1 bat survey class licence. Poppy is a Student Member of CIEEM.

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The Information and advice which we have prepared and provided is true and has been prepared and provided in accordance with the CIEEM's Code of Professional Conduct. We confirm that the opinions expressed are our true and bona fide opinions.

Signed



.....

Adam West

01/03/22

Reviewed by



.....

Poppy McDermott *Student CIEEM member*

01/03/22

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For and on behalf of ***JCA Ltd***

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## ECOLOGICAL SERVICES

### Ecological Pre-Planning Services

- Phase 1 Habitat Surveys
- Great Crested Newt eDNA Sampling
- Protected species: Bat, Wintering and Nesting Bird, Badger, Amphibian, Otter, Water Vole, White-Clawed Crayfish, Dormice and Reptile Surveys.
- Preparation for Environmental Impact Assessment (EIA)
- Invasive Species Surveys
- Code for Sustainable Homes
- Butterfly & Insect Surveys

### Ecological Post-Planning Services

- Biodiversity Enhancement Plans
- Protected Species Mitigation
- Ecological Management (Bat and Bird box installation and inspection)
- Planting Schemes
- Monitoring of bird or bat boxes.

## ARBORICULTURAL SERVICES

### Guidance for Architects & Developers

- British Standard 5837 Surveys
- Arboricultural Implications Assessments (AIA)
- Arboricultural Method Statements (AMS)

### Advice for Engineers, Loss Adjusters and Insurers

- Tree Surveys for Subsidence
- Heave Assessment
- Tree Root Identification

### Advice for Local Authorities and Social Housing

- Tree Safety Surveys
- Specialist Decay Detection
- Landscape and Orchard Design

### Tree Advice for the Legal Profession

- Subsidence Litigation
- Personal Injury and Accident Investigation
- Expert Witness, Planning Inquiries and Appeals

### Veteran Tree Management

- Ancient Woodland Management
- Veteran Tree Management

### Tree Health and Pest and Disease Management

- Pest and Disease Surveys
- Tree Health Checks
- Disease Mitigation and Control

JCA Limited

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