



THE
ENVIRONMENT
PARTNERSHIP



BARNSLEY FIRE STATION

BARNSLEY

PRECAUTIONARY WORKING METHOD STATEMENT

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CONTENTS	PAGE
1.0 Introduction	1
2.0 Ecological Protection Measures - Pre-Construction	4
3.0 Ecological Protection Measures - Construction Phase.....	8
4.0 Roles and Responsibilities	14
5.0 Breeding/Nesting Bird Protection Plan.....	16

TABLES	PAGE
Table 1. Pre-construction Ecological Protection Measures	4
Table 2. Species-specific Ecological Protection Measures during the Construction Period....	8
Table 3. General Ecological Protection Measures during the Construction Period	10
Table 4. Roles and Responsibilities of the ECoW	14

1.0 Introduction

- 1.1 This ecological Precautionary Working Method Statement (PWMS) has been prepared by The Environment Partnership (TEP) on behalf of J F Finnegan Ltd for the re-development of Barnsley Fire Station (as shown on Site Plan SYFRS-BBA-Z0-GF-DR-A-1003 (Appendix A)).
- 1.2 Full planning permission was granted by Barnsley Metropolitan Borough Council in February 2020 (planning ref: 2019/1134). This CEMP has been prepared to partially discharge planning condition 8 which states:

“Prior to commencement of development full details of the mitigation measures identified in the Ecological Survey, including a timetable for their implementation, shall be submitted to and approved in writing by the Local Planning Authority. The development shall be implemented in accordance with the approved details.”

Site Context

- 1.3 The site is located to the south-west of the urban area of Barnsley and is 0.81ha in area. The A6133 (Broadway) is directly adjacent to the site along the south-west boundary, with residential housing adjacent to the south-eastern site boundary. Allotments, a radio pylon and residential development are present along the north-eastern site boundary. Industrial warehousing immediately bounds the site to the north-west. The central grid reference for the site is SE 33214 05617.
- 1.4 Residential development is dominant within the wider landscape, though arable farmland is present to the south and west of the site, with hedgerows, trees and small blocks of broad-leaved woodland associated with field boundaries also present. Figure 1 below illustrates the site within the context of the wider landscape.



Figure 1: Site location plan

- 1.5 TEP produced an ecological assessment for the site in April 2019 (ref: 7484.001) and a bat survey technical report in September 2019 (ref: 7484.004). A summary of the results is provided below.
- 1.6 The Barnsley Metropolitan Borough Council Local Plan (adopted 3rd January 2019) does not highlight any issues for the site regarding biodiversity.
- 1.7 No designated wildlife sites were found to be present within 1km of the site.
- 1.8 The following habitats are present within the site:
- Hardstanding;
 - Buildings;
 - Amenity grassland;
 - Introduced shrub;
 - Scattered scrub; and
 - Scattered broad-leaved trees.
- 1.9 A non-native invasive species listed on Schedule 9 of WCA 1981 (as amended), cotoneaster was identified within ornamental shrub planting along the north-western site boundary.
- 1.10 Two buildings (Buildings 3 and 4) were assessed to have Low bat roost suitability but no bat roosts were identified during the surveys undertaken.
- 1.11 The introduced shrub habitat along the north-western site boundary and the scattered broad-leaved trees within the site, provide nesting habitat for common and widespread bird species. A couple of old nests were evident within the introduced shrub.
- 1.12 No other protected or notable species are anticipated to be present within the site.

Scope of Report

- 1.13 The PWMS sets out a practical working strategy to be implemented during the pre-construction and construction phases of the development, to ensure that features of ecological interest, including notable habitats, and protected/notable species, within the working area, or within influencing distance of the working area, are not compromised. The PWMS should be included as ecological input to inform the Contractors Environmental Management Plan (CEMP) and will ensure that the following recommendations, detailed within the ecological assessment and bat survey technical report, are implemented:
- Standard tree protection measures must be implemented during site clearance and construction to ensure no damage or deterioration to retained trees within or immediately adjacent to the site boundary.
 - Standard pollution prevention and dust control measures should be set out in the contractors Construction Environmental Management Plan (CEMP) and implemented during site clearance and construction works.
 - The cotoneaster species along the north-western site boundary should be removed to avoid spreading of this potential invasive species within the site and to other habitats within the wider landscape.

- Any vegetation clearance should be undertaken outside the bird nesting season (March to August inclusive). If this is not possible, a suitably qualified ecologist should carry out a nesting bird check, a maximum of 24 hours in advance of vegetation clearance works.
- 1.14 The methods detailed within the PWMS follow best ecological working practices in respect of the habitats and species identified within the working area or within influencing distance of the working area.
- 1.15 For the purposes of this document, the “working area” is defined as ‘any area where there will be a requirement for temporary or permanent works to facilitate the construction of the development’. This includes areas required for access, temporary construction, temporary storage areas and site facilities.
- 1.16 The methods are to be followed by all site contractors at all times during the pre-construction and construction phases of the development.
- 1.17 The PWMS should be considered as a 'live' document which will require regular update in response to issues which may arise during each phase of construction.
- 1.18 The PWMS does not include any landscape design, management or biodiversity enhancement measures. These will be addressed in the Landscaping Plan produced by East Midlands Landscaping Limited (plan ref: EML JF 1135 01).

2.0 Ecological Protection Measures - Pre-Construction

Pre-construction Measures

2.1 Table 1 details Ecological Protection Measures which must be implemented prior to construction.

Table 1. Pre-construction Ecological Protection Measures

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
1	Appointment of Ecological Advisors	<p>The Project Ecologist and Arborist will provide an advisory role during the development as required.</p> <p>An Ecological Clerk of Works (ECoW) shall be appointed who will provide a supervisory role on site as and when required.</p> <p>An 'Environmental Champion' shall be appointed. This person will be responsible for daily monitoring of site activities and conformance to the PWMS and other environmental documents. This role should be fulfilled by an experience contractor with a daily site presence.</p>	Appointment prior to works (July 2020)	Developer / Main Site Contractor	Developer / Main Site Contractor to appoint Ecological Advisors as detailed.

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
2	Ecological Toolbox Talks	<p>Toolbox talks will be provided to contractors by the ECoW. Toolbox talks will explain the potential presence of protected or notable species on site, implications to these species, required work methods and locations of any exclusion zones. Protection zones for retained habitats and structures of interest will also be addressed.</p> <p>Toolbox talks will be updated as required where any new ecological issues arise (including seasonal variations/restrictions), or where changes to working methods are required.</p> <p>The initial toolbox talk will be provided by the Project Ecologist prior to each phase of work. Any further toolbox talks required will be provided to new contractors by the Environmental Champion using this CEMP as a basis.</p>	Prior to works commencing (July 2020)	Main Site Contractor	Project Ecologist and Environmental Champion
3	Root Protection Zones	<p>Exclusion fencing will be installed around retained trees to protect them from accidental damage in accordance with BS5837:2012 Trees in relation to design, demolition and construction.</p> <p>Appropriate root protection zones will be implemented in accordance with Arboriculture Impact Assessment produced by Bagshaw Ecology Ltd (report ref: BE1134.1c).</p>	Prior to works commencing (July 2020)	Main Site Contractor	Main Site Contractor

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
4	Nesting Birds - Nesting Bird Check	<p>Vegetation clearance will be undertaken outside the breeding bird season (March to August inclusive), wherever possible, to avoid harm to nesting birds. The extent of the vegetation to be cleared is shown in the Landscaping Plan produced by East Midlands Landscaping Limited (plan ref: EML JF 1135 01).</p> <p>Where vegetation clearance is required during the breeding bird season, the ECoW will carry out a nesting bird check within vegetation clearance areas no more than 24 hours prior to vegetation removal.</p> <p>If no active birds' nests are identified, vegetation clearance will proceed following instruction to do so from the ECoW. If an active nest is identified, exclusion zones will be applied (see Item 5 below).</p> <p>Further details are provided in Section 5.</p>	Prior to vegetation clearance (July - August 2020)	Main Site Contractor	Main Site Contractor and ECoW

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
5	Nesting Birds - Exclusion Zones for Vegetation Clearance	<p>Following the nesting bird check, any areas supporting active nests will be fenced-off with hi-vis 'Netlon' fencing (or similar). The fencing will mark an exclusion zone in which no machinery or site workers should enter. Signs should also be installed to highlight the exclusion zone.</p> <p>The locations and extent of exclusion zones will be marked on a plan by the ECoW to be provided to the site contractor.</p> <p>All active nests within the exclusion zones will be monitored by the ECoW. The ECoW will advise when the nest(s) are no-longer active. On instruction from the ECoW, the fencing will then be removed and vegetation clearance will proceed.</p> <p>Further details are provided in Section 5.</p>	Prior to vegetation clearance (July - August 2020)	Main Site Contractor	Main Site Contractor and ECoW

3.0 Ecological Protection Measures - Construction Phase

3.1 Table 2 details species-specific Ecological Protection Measures which must be implemented during the construction period.

Table 2. Species-specific Ecological Protection Measures during the Construction Period

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
1	Nesting Birds - Nesting Bird Check	<p>Vegetation clearance will be undertaken outside the breeding bird season (March to August inclusive) to avoid harm to nesting birds. The extent of the vegetation to be cleared is shown in the Landscaping Plan produced by East Midlands Landscaping Limited (plan ref: EML JF 1135 01).</p> <p>Where vegetation clearance is required during the breeding bird season, the ECoW will carry out a nesting bird check within vegetation clearance areas no more than 24 hours prior to vegetation removal.</p> <p>If no active birds' nests are identified, vegetation clearance will proceed following instruction to do so from the ECoW. If an active nest is identified, exclusion zones will be applied (see Item 2 below).</p> <p>Further details are provided in Section 5.</p>	Prior to vegetation clearance (July - August 2020)	Main Site Contractor	Main Site Contractor and ECoW

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
2	Nesting Birds - Exclusion Zones for Vegetation Clearance	<p>Following the nesting bird check, any areas supporting active nests will be fenced-off with hi-vis 'Netlon' fencing (or similar). The fencing will mark an exclusion zone in which no machinery or site workers should enter. Signs should also be installed to highlight the exclusion zone.</p> <p>The locations and extent of exclusion zones will be marked on a plan by the ECoW to be provided to the site contractor.</p> <p>All active nests within the exclusion zones will be monitored by the ECoW. The ECoW will advise when the nest(s) are no-longer active. On instruction from the ECoW, the fencing will then be removed and vegetation clearance will proceed.</p> <p>Further details are provided in Section 5.</p>	Prior to vegetation clearance (July - August 2020)	Main Site Contractor	Main Site Contractor and ECoW
3	Invasive Cotoneaster - Removal	<p>The cotoneaster species along the north-western site boundary will be removed to avoid spreading of this potential invasive species within the site and to other habitats within the wider landscape. The extent of the cotoneaster to be cleared is shown in the Landscaping Plan produced by East Midlands Landscaping Limited (plan ref: EML JF 1135 01).</p> <p>The plant will be dug out at its root base, with care taken to collect any berries. The plant will be disposed of at a waste site that accepts Schedule 9 invasive plant species.</p>	During vegetation clearance (July - August 2020)	Main Site Contractor	Main Site Contractor

3.2 Table 3 details general Ecological Protection Measures which must be implemented during the construction period.

Table 3. General Ecological Protection Measures during the Construction Period

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
1	Pollution Prevention	<p>Measures outlined within Best Practice Pollution Prevention Guidelines will be followed to avoid pollution incidents which may indirectly affect terrestrial or aquatic habitats.</p> <p>Measures will include, but are not limited to, the following:</p> <ul style="list-style-type: none"> • Arrive at the site with clean footwear; • Ensure footwear is visually clean from soil and debris before leaving the site; • Ensure vehicles are kept clean. Remove any accumulated mud before leaving the site using a stiff-haired brush. Cleaning should be carried out over a root barrier membrane or hard surface that can contain and collect any contaminated material that has been washed off the vehicle; • Make use of facilities on site to clean footwear and equipment; • Keep vehicles to established tracks and park vehicles on hardstanding; • Any works carried out by contractors should be accompanied by a Risk Assessment Method Statement (RAMS). The RAMS should detail appropriate biosecurity measures to be observed during the duration of the works, and outline the scope of the works and any ongoing monitoring/works required. 	Throughout construction (July 2020 to May 2021)	Main Site Contractor	Main Site Contractor and Environmental Champion

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
		<ul style="list-style-type: none"> Refuelling stations for any powered equipment will be located more than 15m from ditches or any newly created waterbody to ensure no run-off of pollutants in to waterbodies/watercourses. Fuel, oil and chemical storage will be sited on an impervious base within a bund and secured. The base and bund will be impermeable to the material stored and of adequate capacity. All powered equipment operated within 15m of a waterbody/watercourse will use biodegradable chain oil. Any fuel spillages within the site or within close proximity of the site will be reported to the environmental champion. Water containing silt will not be pumped or allowed to flow in to any on-site ponds of water courses. Where possible, water will be prevented from entering excavations. Standard dust prevention measures will be implemented, particularly during construction within 200m of aquatic habitats. 			
2	Excavation of Trenches	<p>Deep trenches will be covered at the end of each working day, or (in the case of shallower trenches only), will include a means of escape for any animal falling in. This will comprise wooden boards, placed no steeper than a 45° angle.</p> <p>The appointed Environmental Champion will carry out checks at the end of each working day to ensure either excavations are covered, or that provision is made for animals to escape.</p>	Throughout construction July 2020 to May 2021)	Main Site Contractor	Environmental Champion

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
3	Overnight Working	<p>To avoid any lighting impacts on nocturnal and crepuscular species, during the construction phase there will be no work undertaken on site from 1 hour after dusk, and the site will not be illuminated after darkness.</p> <p>Should it be necessary to carry out illuminated works after dark, a sensitive lighting strategy should be followed.</p> <p>There will be no noise on site or along any of the site boundaries at night. This will avoid impacts from noise on bat species.</p>	Throughout construction July 2020 to May 2021)	Main Site Contractor	Environmental Champion
4	Storage of Materials	Storage areas will be located away from sensitive areas, particularly retained habitats.	Throughout construction July 2020 to May 2021)	Main Site Contractor	Environmental Champion
5	Vegetation Management	During construction, any open ground will be managed to ensure that any vegetation growth remains short (<150mm) following the initial strimming to reduce its suitability as refuge habitat for wildlife.	Throughout construction July 2020 to May 2021)	Main Site Contractor	Environmental Champion and ECoW
6	Trees - Root Protection Areas	<p>Root Protection Areas and fencing zones will be adhered to at all times in accordance with Arboriculture Impact Assessment produced by Bagshaw Ecology Ltd (report ref: BE1134.1c).</p> <p>Fencing will require regular monitoring by the Environmental Champion to ensure there are no breaches to these zones. Any damage to fencing will be noted and repairs carried out by site contractors. The ECoW will complete quarterly monitoring inspections of the fencing.</p>	Throughout construction July 2020 to May 2021)	Main Site Contractor	Environmental Champion, and ECoW (with advice from Arborist as required)

Item	Ecological Protection Measure	Method	Timing	Person Responsible	Persons Required to Carry Out Works
7	Tree Safety Issues	Should any trees become a safety concern, the Project Ecologist and Arborist will be contacted immediately who will advise on management requirements and whether further consideration to ecology (including bats and nesting birds) is required.	Throughout construction July 2020 to May 2021)	Main Site Contractor	Main Site Contractor (with advice from Project Ecologist and Arborist as required)
8	Consideration to Wildlife	Staff will remain vigilant throughout the works. Should any protected or notable animals be encountered during the works, advice will be sought immediately from the Project Ecologist or ECoW.	Throughout construction July 2020 to May 2021)	All Site Staff	All Site Staff

4.0 Roles and Responsibilities

Project Ecologist

- 4.1 Prior to the commencement of works on site, J F Finnegan Ltd will appoint an appropriately qualified Project Ecologist, who will be named to and approved by the local planning authority. The Project Ecologist must be a member of the Chartered Institute of Ecology and Environmental Management (CIEEM). The Project Ecologist, working with the Site Management Team and Contractors, will ensure all ecological challenges are highlighted and mitigated.
- 4.2 The Project Ecologist will be responsible for the following:
- Ensure the site team and sub-contractors comply with the site protocols regarding ecological receptors through delivery of toolbox talks as required and on-site supervision where necessary;
 - Be available to answer questions as they arise and to advise accordingly;
 - Carry out an Ecological Watching Brief (EWB)/site supervision where necessary;
 - Ensure works are completed following best practice guidelines in relation to ecology;
 - Raise a Quality Alert for any non-compliance with the ecological protocols;
 - Report any failings to the Site Manager immediately. If insufficient action is taken, stop the works and report to the appropriate statutory authority;
 - Liaise with J F Finnegan Ltd and keep a site log. The site log will contain a log of daily activities, details of any recommendations made, details of any further actions required and with whom the responsibility for those action lies; and
 - Provide periodic reports to Barnsley Metropolitan Borough Council and other statutory bodies with respect to the progress of works.

Ecological Clerk of Works (ECoW)

- 4.3 An ECoW will provide a supervisory role on site. The ECoW will be a suitably qualified ecologist, put forward for the role by the Project Ecologist.
- 4.4 Roles and responsibilities of the ECoW are provided in Table 4 below.

Table 4. Roles and Responsibilities of the ECoW

Item	Role of ECoW	ECoW Present on Site	Timing and Frequency
1	Be available to answer questions whilst on site and to advise accordingly	Yes	Pre-construction and during construction phase
2	Carry out pre-construction checks for nesting birds.	Yes	Pre-construction

Item	Role of ECoW	ECoW Present on Site	Timing and Frequency
3	Supervise site/vegetation clearance in accordance with the Reasonable Avoidance Measures Method Statement (RAMMS) to avoid harm to birds.	Yes	Pre-construction and during construction phase
4	Carry out nesting bird checks throughout construction, as required, and monitor any active nests.	Yes	During construction phase

5.0 Breeding/Nesting Bird Protection Plan

Introduction

- 5.1 All nesting birds are protected under the Wildlife and Countryside Act 1981, which makes it an offence to intentionally kill, injure or take any wild bird or take, damage or destroy its nest whilst in use or being built, or intentionally take or destroy its eggs.
- 5.2 All habitats on site are suitable to support nesting birds.





Method Statement

- 5.3 Where possible, all vegetation clearance will avoid the core breeding bird season, March to August inclusive; although it should be noted that bird nesting can take place outside this period.
- 5.4 If, however, clearance works are necessary during the core breeding bird season, or at any time when bird nesting is suspected, a nesting bird check of the affected area will be undertaken by the ECoW. The nesting bird check will take place no more than 24 hours prior to the clearance works. In the event that an active nest is found the ECoW will provide advice on setting up a suitable exclusion zone area around the nest until the young have fledged. The extent of the exclusion zone will depend upon the bird species concerned and its location within the development.
- 5.5 Large and/or structurally complex areas of vegetation, if present on site, will be subject to a more careful inspection. Where breeding bird activity cannot be established, these areas will require an ecological watching brief, where the ECoW will work alongside the contractors to check and then clear vegetation in small sections. Contractors will remove small areas of vegetation using bow saws and loppers, ensuring disturbance is localised. If nests are uncovered, works shall cease until the ECoW has determined the status of the nest.
- 5.6 If an active nest is identified an exclusion zone will be put in place. Works can only proceed within the exclusion zone once the ECoW has confirmed the young have fledged.

APPENDIX A: Proposed Site Plan SYFRS-BBA-Z0-GF-DR-A-1003

Radio Pylon

key plan

-  Red Line Boundary
-  Indicates proposed Secure Fence Line - Gates as Indicated.
-  Indicates proposed permanent Acoustic Timber Fence Line - Gates as Indicated.
- Indicative Line of Demolished Buildings
-  Indicates area proposed for siting of temporary Fire Service accommodation during construction works.

notes

- 1 This drawing is based on survey information dated 04/05/2018 and supplied by Met Geo Environmental.
- 2 The red line ownership boundary is assumed and is to be checked and confirmed by the client.
- 3 Vehicle tracking is indicative only - full vehicle tracking to be undertaken by Civil Engineer.

P10	Secondary acoustic barrier indicated in line with Hoare Lea Noise Impact Assessment Report Ref: REP-1011589-05-AM-20190904.	SB	GQ	20.01.20
P09	Back-up Generator & Temporary Accommodation indicated for planning.	SB	GQ	06.09.19
P08	Issued for Tender.	SB	GQ	20.08.19
P07	Issued for Planning.	SB	GQ	20.08.19
P06	Draft issue for costing.	SB	GQ	24.07.19
P05	Record issue prior to actioning Client changes.	DRK	SB	12.07.19
P04	Updated as Stage 2A feedback.	DRK	SB	06.06.19
P03	Wash-down Canopy Added.	SB	DH	01.03.19
P02	Updated to current GA Plans.	SB	FH	20.02.19
P01	First Issue	SB	DH	30.01.19
rev	description	drawn	checked	date

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PROPOSED SITE PLAN

bba project ref	scale(s)	original paper size
18-033	1:250	A1

name :

project	originator	volume	level	type	role	number
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SYFRS - BBA - Z0 - GF - DR - A - 1003

status : suitability description :

D5 SUITABLE FOR PLANNING

revision :	revision description :

P10 **PRELIMINARY**

This document is © Bond Bryan Architects Ltd. If in doubt ASK. Drawing measurements shall not be obtained by scaling. Verify all dimensions prior to construction. Immediately report any discrepancies on this document to the Architect. This document shall be read in conjunction with associated models, specifications and related consultant's documents.



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