59-61 OAK GROVE,
LONDON

Code for Sustainable Homes Report Eco 1-4

Prepared by
ACD Ecology

For

HUTTON CONSTRUTION LTD

ACD

Ecology

Arboriculture

Landscape Architecture

Written By:	AD
Checked By:	DW
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CONTENTS

CODE FOR SUSTAINABLE HOMES REPORT SUMMARY TABLE		**2**
A1	**CONTACT DETAILS**	**3**
B1	**SUITABLY QUALIFIED ECOLOGIST'S QUALIFICATIONS**	**4**
B2	**REPORT VERIFICATION**	**5**
C	**SITE SURVEY**	**6**
D	**DETAILS FROM THE SITE SURVEY**	**7**
	ECO 1	**7**
	ECO 2	**8**
	ECO 3	**10**
	ECO 4	**11**
E	**APPENDIX**	**14**

CODE FOR SUSTAINABLE HOMES REPORT SUMMARY TABLE

Issue ID	Description	Eco Credits currently available	Comments
Eco 1	Ecological value of site	1	The site is of low ecological value.
Eco 2	Ecological enhancement	1	1 credit is achievable with adoption of all key recommendations and 30% of additional recommendations.
Eco3	Protection of ecological features	1	The site is of low ecological value.
Eco4	Change in ecological value of site	2	The change in ecological value will be neutral.

Total Eco credits currently available: 5

A1: CONTACT DETAILS

Ecologist's Details

Company name: ACD Ecology

Company address: The Old Dairy, Rodbourne Rail Business Centre, Grange Lane, Malmesbury, Wiltshire, SN16 0ES

Contact name: Amy Denness

Telephone number: 01666 825 646

Report Reference: POC19032CfSH

Developer / Client Details

Company name: Hutton Construction Ltd

Company address: Alsa Business Park, Alsa Street, Stanstead, Essex, CM24 8SQ

Contact name: Ken Weller

Telephone number: 01279 647333

Section A2: Development Details

BRE Reference Number: TBC

Client Reference Number: TBC

Development Name: 59-61 Oak Grove, London

Development Address: 59-61 Oak Grove, London, NW2 3LR.

B1: SUITABLY QUALIFIED ECOLOGIST'S QUALIFICATIONS

Do you hold a degree (or equivalent qualification, e.g. N/SVQ level 5) in ecology or related subject?

Yes ☒ No ☐

If Yes, please provide details:

BSc (Hons) Conservation & Wildlife Management, University of Portsmouth

MSc Plant Diversity, University of Reading

Are you a practising ecologist with a minimum of 3 years relevant experience within the last 5 years?

Relevant experience must clearly demonstrate a practical understanding of factors affecting ecology in relation to construction and the built environment and will include acting in an advisory capacity to provide recommendations for ecological protection, enhancement and mitigation measures, e.g. ecological impact assessments.

Yes ☐ No ☒

If Yes, please provide details:

Are you bound by a professional code of conduct and subject to peer review*?

A full member of one of the following organisations will be deemed suitable: Chartered Institution of Water and Environmental Management (CIWEM); Institute of Ecology and Environmental Management (IEEM); Institute of Environmental Management and Assessment (IEMA); Landscape Institute (LI).

Yes ☐ No ☒

If Yes, please provide details:

I am a graduate member of the Chartered Institute of Ecology and Environmental Management (CIEEM). This report has also been reviewed by the Ecology Director who is a full member of CIEEM (MCIEEM).

**Peer review is defined as the process employed by a professional body to demonstrate that potential or current full members maintain a standard of knowledge and experience required to ensure compliance with a code of conduct and professional ethics.*

Note: If the answer to any question in Section B1 is 'No' then the ecologist writing the report does not meet the requirements of a Suitably Qualified Ecologist under the Code. The ecology report

therefore cannot be used in the Code assessment unless it is verified by a 'Suitably Qualified Ecologist'. If this is the case, proceed to Section B2.

If the ecologist does meet the requirements of a Suitably Qualified Ecologist, proceed to Section C.

B2: REPORT VERIFICATION

If the appointed ecologist does not meet the requirements of a Suitably Qualified Ecologist, the report must be verified by an individual who does meet these requirements. Otherwise the ecology report cannot be used in the Code assessment.

1. The person who verifies the report must provide written confirmation that they meet the requirements of a Suitably Qualified Ecologist in accordance with Section B1 above.

2. Details on verifying an ecology report for a Code assessment:

- *The individual verifying the report must provide written confirmation that they comply with the definition of a Suitably Qualified Ecologist (as detailed above in Section B1).*
- *The individual verifying the report must confirm in writing they have read and reviewed the report and found it to:*
  - *represent sound industry practice*
  - *report and recommend correctly, truthfully, and objectively*
  - *be appropriate given the local site conditions and scope of works proposed*
  - *avoid invalid, biased, and exaggerated statements.*

Written confirmation from the third party verifier on all the points detailed under 1 and 2 above (for Section B2) must be included in the Appendix to this report (see Section E).

SECTION C: SITE SURVEY

Have the findings of the ecology report been based on data collected from a site survey(s)?

Yes ☒ No ☐

If yes, please provide details to confirm this (e.g. date(s) and scope of site survey(s))

A Phase 1 Habitat Survey was carried out by ACD Ecology in January 2014 (POC19032Eco).

Note: If 'No' has been answered to Question 1 of Section C the ecology report cannot be used to determine compliance with the requirements of the relevant Code credits.

On what date did/ will initial site preparation works commence?

Unknown.

Note: If the site survey was carried out after initial site preparation works commenced, the ecology report cannot be used to determine compliance with the requirements of the relevant Code credits.

Note to Suitably Qualified Ecologist and the Code assessor: The contents of the ecology report must be representative of the site's existing ecology immediately prior to the commencement of initial site preparation works.

SECTION D: DETAILS FROM THE SITE SURVEY

Eco 1 Ecological Value of Site

Is the construction zone of low or insignificant ecological value?

The construction zone includes any land used for buildings, hard standing, landscaping, site access and any other land where construction work is carried out (or land being disturbed in any way), plus a 3 metre boundary in either direction around these areas. It also includes any areas used for temporary site storage and buildings.

Yes ☒ No ☐

If yes, is there any land outside the construction zone but inside the development site of ecological value?

Yes ☐ No ☒

Please give details:

The site is of low ecological value and is surrounded by buildings and hardstanding.

If yes, is it possible for all areas / features of ecological value to remain undisturbed by the construction works?

N/A

Eco 2 Ecological Enhancement

Has the developer / client required you to provide advice and recommendations for enhancing site ecology?

Yes ☒ No ☐

If yes, please provide a brief statement outlining all of your KEY recommendations*:

1. **Install one Schwegler 17B swift box[1] onto the exterior of the new building. This box should be positioned as high as possible, at least 5m above ground level, on a north-east facing wall (as indicated on POC19032-61) with a clear flight path to and from the entrance hole. The swift box requires no maintenance other than repair/replacement if necessary.**
2. **Install two Schwegler 1SP sparrow terraces[2] onto the exterior of the new building. These boxes should be positioned as high as possible, at least 5m above ground level, on a north-east facing wall (as indicated on POC19032-61) with a clear flight path to and from the entrance hole. These bird boxes require no maintenance other than repair/replacement if necessary.**
3. **Install one Schwegler 1FQ bat roost boxes[3] onto the exterior of the new building. These boxes should be positioned at least 5m above ground level on a south-east or south-west facing wall (as indicated on POC19032-61) with a clear flight path to and from the entrance hole. These bat boxes require no maintenance other than repair/replacement if necessary. Once in use, bat boxes must only be inspected or removed by a licenced bat worker.**
4. **Incorporate wildlife-friendly planting (e.g. *Lavendula angustifolia, Lonicera periclymenum* and *Clematis vitalba*) into the landscape scheme.**

If yes, please provide a brief statement outlining all of your ADDITIONAL recommendations*.

1. **Install two Bee and Bug Biomes[4] into areas of shrub planting within the development.**
2. **Create two invertebrate log piles within areas of dense planting. The log piles should consist of cut logs which are placed into compact piles at least 1m wide and 30cm high.**

[1] http://www.nhbs.com/title/177982/no-17b-schwegler-swift-nest-box-single-cavity
[2] http://www.nhbs.com/title/174850/1sp-schwegler-sparrow-terrace
[3] http://www.nhbs.com/title/160551/1fq-schwegler-bat-roost-for-external-walls
[4] http://www.nhbs.com/title/186175/bee-and-bug-biome

3. **Install three Ladybird and Lacewing Houses[5] into areas of shrub planting within the development.**

Guidance on artificial habitat is provided at the end of the report.

** The client / developer will be required to adopt / implement all KEY recommendations and 30% of ADDITIONAL recommendations.*

[5] http://www.nhbs.com/title/192605/ladybird-and-lacewing-house

Eco 3 Protection of Ecological Features

Note: Eco 3 looks at protecting all existing features / areas of ecological value on the site and boundary area. If a feature of ecological value is to be removed as part of the development works, e.g. site clearance, then this credit cannot be achieved. If you have deemed the whole development site to be of poor ecological value then there will be no features of ecological value to protect. If the construction zone is of low ecological value but the wider site is not, give protection measures here. If there is an area(s) or feature(s) of low or insignificant ecological value you wish to advise be retained and enhanced / improved, e.g. a species-poor hedgerow to a species-rich hedgerow, then full details of this advice should be entered as a recommendation under Eco 2 Ecological Enhancement.

Are there any existing features/ areas of ecological value on the site or at the boundary of the site?

Yes ☐ No ☒

The site is of low ecological value and is surrounded by buildings and hardstanding.

If yes, please provide a brief statement outlining the advice/ recommendations given for protecting all existing features and areas of ecological value:

Are any ecological features to be relocated on the site?

Yes ☐ No ☒

If yes, please provide a brief statement outlining the reasons for relocation and recommendations for protecting the ecological features:

N/A

Eco 4 Change of Ecological Value of Site

Are you able to provide the following information for before and after construction: habitat types and an estimate of the number of floral species present per habitat type (based on appropriate censusing techniques and confirmed planting regimes)?

Yes ☒ No ☐

If yes, please provide the following information:

Landscape plan: OGC AL-14-9-100

Landscape Specification: OGC-AS-9-800

a. A brief description of the landscape and habitats surrounding the development site:

The site is surrounded by buildings and hardstanding

b. The total site area (this will be the same both before and after development): **761m^2**

c. Provide details of the site before development in the table below:

Habitat Type*	Area of habitat type (m^2)	Number of species per habitat type from survey
Hardstanding	632.8	0
Rough grassland	103.2	12
Scrub	25	4
Total area	**761**	

d. Provide details of the site after development in the table below:

The Landscape proposal plan was used to establish the areas of plot types after development:

Habitat Type*	Area of habitat type (m^2)	Number of species per habitat type
Buildings and hardstanding	616.26	0
Hedge	9.98	1
Wildlife friendly planting	134.76	10
Total area	**761**	

** Habitat types will include natural areas, e.g. various grasslands and woodlands; as well as areas of the built environment, e.g. buildings, hard landscaping. The area of each habitat type when added together must always equal the total area of the development site.*

Has your client / developer requested you to carry out the calculation for Eco 4 Change in Ecological Value of Site? The calculation must be carried out in line with the methodology provided in the most current version of the Code Guidance.

Yes ☒ No ☐

If yes, please complete the tables below:

Calculation of the Ecological Value of the Site Before Development:

Plot Type	Area of Plot Type [m^2]		Species [No.] (from Table 2 or a SQE*)		Species x Area of Plot Type
Hardstanding	632.8	x	0	=	**0**
Rough grassland	103.2	x	12	=	**1238.4**
Scrub	25	x	4	=	**100**
(1) Total site area =	**761**			(2) Total =	**1338.4**
Species before development = Total species x area of plot type / Total site area = (2)/(1) =					**1.75**

** SQE = Suitably Qualified Ecologist*

Calculation of the Ecological Value of the Site After Development:

Plot Type	Area of Plot Type [m^2]		Species [No.] (from Table 2 or a SQE*)		Species x Area of Plot Type
Buildings and hardstanding	616.26	x	0	=	0
Hedge	9.98	x	1	=	9.98
Wildlife-friendly planting	134.76	x	10	=	1347.60
(1) Total site area =	**761**			(2) Total =	**1357.58**
Species after development = Total species x area of plot type / Total site area = (2)/(1) =					**1.78**

** SQE = Suitably Qualified Ecologist*

Total change in species:

Total no. Species after development – Total no. Species before development

= 1.78 – 1.75

= 0.03 (neutral ecological change)

Credits are awarded where the resulting change in ecological value is as follows:

Criteria	Credits
The ecological value before and after development is measured, and overall change in species per hectare is:	
Minor: negative Change between -9 and less than or equal to -3.	1
Neutral: greater than -3 and less than or equal to +3	2
Minor enhancement: greater than 3 and less than or equal to 9	3
Major enhancement: greater than +9	4

SECTION E: APPENDIX

The required documentation to be included within the appendix of this guidance document will include: the ecology report; written confirmation from the verifier of the ecology report (where necessary); and any supplementary documentation, e.g. ecologist's curriculum vitae; maps, plans, drawings, letters / emails of correspondence, etc. Please include these details along with the appropriate reference to each document in the table below:

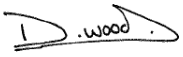
Document	Reference
Signature of Validation	**Daniel Wood (Principle Ecologist)**
Habitat Survey	**POC19032Eco**
Landscape Plan **Landscape Specification**	**OGC AL-14-9-100** **OGC-AS-9-800**

SIGNATURE OF VALIDATION

I confirm that the information provided in this document is truthful and accurate at the time of completion.

I hold a degree in ecology or related subject, having a Bachelor's degree in Environmental Science. I am a practising ecologist with 6 years' relevant experience; and I am bound by a professional code of conduct and subject to peer review, being a member of the Chartered Institute of Ecology and Environmental Management.

Name of ecologist: **Daniel Wood BSc MCIEEM**

Signature of ecologist: 

Date **23 December 2014**

APPENDIX 1: ARTIFICIAL HABITAT LOCATION PLAN

APPENDIX 2 - ECOLOGICAL ENHANCEMENT RECOMMENDED PRODUCTS

Recommended Product	Specification	Image
Schwegler 1FQ bat roost (for external walls)	Material: Woodcrete Height: 60cm Width: 35cm Depth: 9cm Weight: 15.8kg For installation on external walls, suitable for maternity use. Can be painted with air permeable paint.	
Schwegler sparrow terrace	Height: 16cm Width: 43cm Depth: 20cm Weight: 15kg Can be installed on the surface of the wall or built into the wall. Cleaning is advisable but not necessary.	

Bee and Bug Biome

The bee and bug biome provides valuable habitat for solitary bees and other insects. The top chamber features seven wooden nesting tubes in a wooden block, together with bamboo tubes of various sizes. A centre feeding hole is perfect for attracting ladybirds, earwigs and lacewings. The lower chamber is filled with pine cones which provide plenty of nooks and crannies for insects such as lacewings.

Invertebrate Log Piles

Place the logs into compact piles at least 1m wide and 30cm high within densely vegetated areas. Log piles provide habitat for invertebrates and reptiles. A mixture of different sized logs from different species of tree will enhance the benefit to wildlife. Cuttings and leaf litter can be added to further enhance the benefit for wildlife

SUPPLIERS

NHBS
http://www.nhbs.com/

BioQuip
http://www.bioquip.net/index.html

Envisage Wildcare
http://www.wildcareshop.com/

Green Gardener
http://www.greengardener.co.uk/

Jacobi Jayne
http://www.livingwithbirds.com/

RSPB
http://shopping.rspb.org.uk/wildlife-garden.html

Wildlife and Countryside Services
http://www.wildlifeservices.co.uk/habitatspecies.html

The Code Store
http://www.thecodestore.co.uk

ACD LANDSCAPE ARCHITECTS LTD
RODBOURNE RAIL BUSINESS CENTRE
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