Our Ref: P-4536-01-A
Date: 13-Dec-19

Ecological Summary Note for 'Land to the East of Leeds Road, Chidswell' and 'Heybeck Lane'

Scope of Surveys

Brooks Ecological were commissioned in February 2018 to undertake a suite of detailed ecological studies on the proposed development Site known as Land at Chidswell. At this stage, the Site was encapsulated within a single red line boundary, and as such, each of the detailed surveys were written into a single report, which covered the entire Site.

Since then, the area has been divided into two separate sites, known as the 'Heybeck Lane' site and the 'Land East of Leeds Road' site; with each site going forward with separate outline planning applications.

Both Sites support a similar range of habitats and faunal issues, and thus share roughly the same ecological constraints. The conclusions drawn and recommendations provided within each of the separate ecological reports will remain applicable to both sites. A summary of the survey and result for each Site is provided below:

Survey	Report Ref.	Key findings	
		Heybeck Lane	Land East of Leeds Road
Preliminary Ecological Appraisal	A054074*	Habitats on Site: • Arable land • Hedgerows	Habitats on Site: • Arable land • Improved grass • Semi-improved grass • Hedgerows • Scattered trees • Woodland • Scrub • Tall ruderal • Watercourse • Wet & dry ditches • Hard standing • Buildings Invasive Non-native species recorded on Site (Himalayan balsam)
Great Crested Newt HSI Assessment	R-328-01	Likely absence confirmed	Likely absence confirmed
Barn Owl Survey	R-328-02	Likely absence confirmed	Likely absence confirmed
Breeding Bird Survey	R-328-03	Typical assemblage of farmland birds. Limited value for this group.	Breeding Bird assemblage of District Level importance. Skylark and Yellowhammer populations of particular note.

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Survey	Report Ref.	Key findings	
		Heybeck Lane	Land East of Leeds Road
Badger	R-328-04	Likely absence confirmed	Likely absence confirmed
Bat Roost Suitability Assessment of Trees	R-328-05	Single tree with roost suitability	Nine trees with roost suitability
Bat Activity	R-328-06	Site of limited value to this group	Site of limited value to this group
Water vole	R-328-07	Likely absence confirmed	Likely absence confirmed
Reptile	R-328-08	Likely absence confirmed	Likely absence confirmed
Hedgerows	R-328-09	Single important hedgerow	Two important hedgerows
Bat Roost Suitability Assessment of Houses	R-328-10	Single building with Negligible roost suitability	Two properties with low roost suitability
Bat Emergence survey of Houses	R-328-11	-	Likely absence of roosting confirmed.

* Report by WYG Environment Planning Transport Ltd

The larger site 'Land East of Leeds Road' will be the subject of an ES Assessment, whilst the smaller site 'Heybeck Lane' will be the subject of an Ecological Impact Assessment (EcIA). For both assessments, the ecological reports listed above remain relevant and will be attached as Technical Appendices.

In terms of mitigation, a Biodiversity Management Plan (BMP) and Construction Environmental Management Plan (CEMP: Biodiversity) will be recommended for both Sites, whilst an Invasive Weed Management Plan will also be recommended for the 'Land East of Leeds Road' Site.

Biodiversity Metric Calculations

Land to the East of Leeds Road, Chidswell

As the proposals are only in outline at present, finer detail on habitat creation has not be produced. The Biodiversity Metric Calculation has therefore been based on illustrative drawings, and the score is unlikely to be an accurate reflection of the Total Biodiversity Impact on on-Sites habitats.

The Score achieved at this stage is therefore purely indicative and is meant to illustrate a 'ball-park figure' for the Biodiversity Metric Calculations. The final figure is likely to increase once the Landscape Masterplan and Biodiversity Management Plan have been finalised.

At this stage, it is possible for the scheme to achieve an overall net gain in biodiversity.

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Ecological Baseline – Habitat Units

	Habitats and areas			Habitat distinctiveness	Habitat condition	Ecological connectivity	Strategic significance	Suggested action to address habitat losses	Ecological baseline
Ref	Broad Habitat	Habitat type	Area (hectares)	Distinctiveness	Condition	Ecological connectivity	Strategic significance		Total habitat units
1	Cropland	Cropland - Cereal crops	102.25	Low	N/A - Agricultural	N/A	Area/compensation not in local strategy/ no local strategy	Same distinctiveness or better habitat required	204.50
2	Grassland	Grassland - Modified grassland	1.78	Low	Poor	N/A	Area/compensation not in local strategy/ no local strategy	Same distinctiveness or better habitat required	3.56
3	Heathland and shrub	Heathland and shrub - Mixed scrub	0.91	Medium	Fairly Poor	N/A	Area/compensation not in local strategy/ no local strategy	Same broad habitat or a higher distinctiveness habitat required	5.46
4	Woodland and forest	Woodland and forest - Other woodland; broadleaved	1.67	Medium	Fairly Poor	N/A	Area/compensation not in local strategy/ no local strategy	Same broad habitat or a higher distinctiveness habitat required	10.02
5	Woodland and forest	Woodland and forest - Other woodland; Young Trees planted	1.84	Medium	Poor	N/A	Area/compensation not in local strategy/ no local strategy	Same broad habitat or a higher distinctiveness habitat required	7.36
6	Urban	Urban - Developed land; sealed surface	0.06	V.Low	N/A - Other	N/A	Area/compensation not in local strategy/ no local strategy	Compensation Not Required	0.00
7	Urban	Urban - Vegetated garden	0.27	Low	Poor	N/A	Area/compensation not in local strategy/ no local strategy	Same distinctiveness or better habitat required	0.54
8	Sparsely vegetated land	Sparsely vegetated land - Ruderal/Ephemeral	0.12	Low	Fairly Poor	N/A	Area/compensation not in local strategy/ no local strategy	Same distinctiveness or better habitat required	0.36
9	Lakes	Lakes - Ditches	0.53	Medium	Poor	N/A	Area/compensation not in local strategy/ no local strategy	Same broad habitat or a higher distinctiveness habitat required	2.12
10									
11									
12									
13									
14									
		Total site area ha	109.43					Total Site baseline	233.92

Ecological Baseline – Hedgerow Units

	UK Habitats - existing habitats			Habitat distinctiveness	Habitat condition	Ecological connectivity	Strategic significance		Ecological baseline
Baseline ref	Hedge number	Hedgerow type	length KM	Distinctiveness	Condition	Ecological connectivity	Strategic significance	Suggested action to address habitat losses	Total hedgerow units
1		Native Hedgerow	3.725	Low	Poor	Low	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	7.45
2									
3									
4									
5									
6									
		Total Site length/KM	3.73					Total Site baseline	7.45

Ecological Baseline – River Units

Existing river type			Habitat distinctiveness	Habitat condition	Strategic significance		Sugested action	Ecological baseline
Baseline ref	River type	length KM	Distinctiveness	Condition	Strategic significance	Strategic significance		Total river units
1	Rivers & Streams (Other)	0.88	Medium	Fairly Poor	Low potential/ action not identified in any plan.	Low Strategic Significance	Avoid	7.04
2								
3								
4								
5								
	Total site length KM	0.88					Total Site	7.04

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Potential Ecological Baseline (post-development) – Habitat Units (created)

Post development/ post intervention habitats								
				Ecological	Strategic significance	Temporal	Difficulty	
Proposed habitat	Area (hectares)	Distinctiveness	Condition	Ecological connectivity	Strategic significance	Time to target condition/years	Difficulty of creation category	Habitat units delivered
Urban - Suburban/ mosaic of developed/ natural surface	42.3	Low	Poor	N/A	Area/compensation not in local strategy/ no local strategy	1	Low	81.64
Urban - Developed land; sealed surface	30	V.Low	N/A - Other	N/A	Area/compensation not in local strategy/ no local strategy	0	Low	0.00
Urban - Allotments	0.7	Medium	Moderate	N/A	Area/compensation not in local strategy/ no local strategy	1	Low	5.40
Urban - Sustainable urban drainage feature	3.6	Low	Moderate	N/A	Area/compensation not in local strategy/ no local strategy	3	Medium	8.67
Urban - Amenity grassland	20.4	Low	Moderate	N/A	Area/compensation not in local strategy/ no local strategy	3	Low	73.33
Grassland - Other neutral grassland	8.92	Medium	Moderate	N/A	Area/compensation not in local strategy/ no local strategy	10	Low	49.97
Totals	105.92							219.01

Potential Ecological Baseline (post-development) – Habitat Units (enhanced)

Main Menu	Instructions													
		Post development/ post intervention habitats												
	Baseline habitats	Change in distinctiveness and condition												
Baseline ref	Baseline habitat	Proposed habitat (Pre-populated but can be overridden)	Distinctiveness change	Condition change	Area (hectares)	Distinctiveness	Condition	Ecological connectivity	Strategic significance	Temporal multiplier	Difficulty multipliers	Habitat units delivered
								Ecological connectivity score	Strategic significance	Time to target condition/years	Difficulty of enhancement	
4	Woodland and forest - Other woodland; broadleaved	Woodland and forest - Other woodland; broadleaved	Medium - Medium	Fairly Poor - Moderate	1.67	Medium	Moderate	N/A	Area/compensation not in local strategy/ no local strategy	15	Medium	11.33
5	Woodland and forest - Other woodland; Young Trees planted	Woodland and forest - Other woodland; mixed	Medium - Medium	Poor - Moderate	1.84	Medium	Moderate	N/A	Area/compensation not in local strategy/ no local strategy	10	Medium	10.81
				Total site area	3.51						Enhancement total	22.14

Potential Ecological Baseline (post-development) – Hedgerow Units (created)

Main Menu	Instructions								
						Multipliers			
						Spatial quality		Temporal multiplier	
		Proposed habitats		Habitat distinctiveness	Habitat condition	Ecological connectivity	Strategic significance		Hedge units delivered
Baseline ref	New hedge number	Habitat type	Length km	Distinctiveness	Condition	Ecological connectivity	Strategic significance	Time to target condition/years	
1		Native Species Rich Hedgerow	2	Medium	Moderate	Medium	Area/compensation not in local strategy/ no local strategy	5	9.87
2									
3									
4									
5									
		Creation Length/KM	2.00						9.87

Potential Ecological Baseline (post-development) – Hedgerow Units (enhanced)

Main Menu	Instructions													
		Post development/ post intervention habitats												
	Baseline Habitats		Change in distinctiveness and condition											
Baseline ref	Baseline habitat	Proposed	Distinctiveness movement	Condition movement	Length KM	Distinctiveness	Condition	Ecological connectivity	Strategic significance	Temporal multiplier	Difficulty Multipliers	Hedge units delivered
									Strategic significance	Time to target condition/years	Difficulty of enhancement	
1	Native Hedgerow	Native Species Rich Hedgerow	Low - Medium	Lower Distinctiveness Habitat - Moderate	2.35	Medium	Moderate	Medium	Area/compensation not in local strategy/ no local strategy	5	Medium	13.87
				Total site length	2.35							13.87

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Potential Ecological Baseline (post-development) – River Units (enhanced)

	Baseline habitats		Post development/ post intervention habitats										
		Proposed (Pre-populated can be overridden)	Change in distinctiveness and condition					Strategic significance		Temporal multiplier	Difficulty multipliers	Riparian encroachment	
Baseline ref	Baseline habitat		Distinctiveness movement	Condition movement	Length KM	Distinctiveness	Condition	Strategic significance	Strategic significance	Time to target condition/years	Difficulty of enhancement	Extent of encroachment	River units delivered
1	Rivers & Streams (Other)	Rivers & Streams (Other)	Medium - Medium	Fairly Poor - Moderate	0.8	Medium	Moderate	Delivery within Priority Habitats for Restoration	High strategic significance	1	Medium	0-2 m	9.25
					0.80							Enhancement total	9.25

Headline Results

On-site baseline	Habitat units	233.92
	Hedgerow units	7.45
	River units	7.04
On-site post-intervention (Including habitat retention, creation, enhancement & succession)	Habitat units	241.16
	Hedgerow units	23.73
	River units	9.25
Off-site baseline	Habitat units	0.00
	Hedgerow units	0.00
	River units	0.00
Off-site post-intervention (Including habitat retention, creation, enhancement &	Habitat units	0.00
	Hedgerow units	0.00
	River units	0.00
Total net unit change (including all on-site & off-site habitat retention/creation)	Habitat units	7.24
	Hedgerow units	16.28
	River units	2.21
Total net % change (including all on-site & off-site habitat creation + retained habitats)	Habitat units	3.09%
	Hedgerow units	218.58%
	River units	31.43%

The above is provided simply to illustrate that the Site could achieve a net gain overall - this is based on parameter plans and Illustrative masterplans provided. It will be at the Reserved Matters stage that an accurate Net Gain score will be calculated.