

SB Rice Ltd

Claydon Marina

Biodiversity Impact Assessment

856968



FEBRUARY 2019



RSK GENERAL NOTES

- Title: Claydon Marina Biodiversity Impact Assessment
- Client: SB Rice Ltd
- Date: February 2019
- Office: Tonbridge
- Status: Rev 00

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SB Rice Ltd Claydon Marina – Biodiversity Assessment 856968



EXECUTIVE SUMMARY

- 1. This report presents an assessment of effects on biodiversity in connection with the proposed development of a marina at Glebe Farm, Oxfordshire.
- 2. The assessment calculates 'biodiversity units' based on the area (or length), condition and distinctiveness of habitats found on the site. The change in the biodiversity value of the site is identified.
- 3. The study is based on ecology surveys carried out by RSK in March 2017. Post development habitats have been identified using a proposed landscape plan provided by the client.
- 4. The site includes 4 habitat types with a total baseline of 40.39 area biodiversity units and 7.10 linear biodiversity units. Post-development plans include 8 habitat types with a total of 84.78 biodiversity area units and 7.38 linear units.
- 5. The report concludes that the current proposed development will result in a positive gain of + 44.39 biodiversity area units and + 0.28 linear biodiversity units.
- 6. Assumptions have been made regarding the condition of the proposed habitats which are listed in Appendix B.



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1 INTRODUCTION

1.1 Purpose of this Report

This report presents an assessment of effects on biodiversity in connection with the proposed development of a marina at Glebe Farm, Boddington Road, near Claydon in Banbury, Oxfordshire (Ordnance Survey Grid Reference SP 4641 5098). The site is 17.74 ha and *Figure 1* shows the site location. This report calculates 'biodiversity units' based on the area (or length), condition and distinctiveness of habitats found on the site. Pre-development and post-development biodiversity values are calculated and compared to identify any change in the biodiversity value of the site.

1.2 Context

The site is rural in character; it is a single arable field bordered by hedges. Adjacent to the northern boundary are wet woodland and trees, while a stream borders the eastern side of the site for c.170 m. Areas of grassland are situated at the field margins. There are also parcels of un-harvested, fertiliser-free conservation headland (Higher Level Stewardship agreement HF14) in the agricultural field. The site is surrounded by other agricultural fields which are bordered by hedgerows and small parcels of woodland. Further afield is predominantly arable land with scattered villages, streams and reservoirs.

Ecological interest is primarily around the edges of the site, and these areas are largely being retained by the 250 berth inland waterways marina development.



2 METHODS

2.1 Introduction

This study was a desk-based exercise, using the results of field surveys carried out at the site by RSK in 2017 (RSK, 2018), and a proposed landscape plan provided by the client: A05-020B_Pro site plan 1_1250-1.dwg (SB Rice Ltd,Jan 2019).

A map of the baseline habitats from the ecological appraisal is presented in Figure 2.

2.2 Biodiversity Baseline Methods

To calculate a baseline biodiversity value this study used methods similar to those of the Defra Biodiversity Offsetting pilot scheme and guidance set out by Defra (2013a).

Initially habitats were digitised in GIS using field notes. Areas were measured in hectares and linear features in kilometres. The biodiversity unit value for each habitat was then calculated by multiplying the habitat area (or length) by its distinctiveness score and then by its condition score, both described below. The unit values for each habitat were then totalled to produce the biodiversity baseline. Linear habitats were assessed separately to areas.

2.2.1 Habitat Distinctiveness

Habitats were classified using the Integrated Habitat System (IHS) codes developed by Somerset Environmental Records Centre (SERC). A distinctiveness score was then assigned using a value pre-determined by the Warwickshire, Coventry and Solihull biodiversity impact assessment calculator (this being the most up-to-date tool available). Habitat distinctiveness is a collective measure of biodiversity and includes parameters such as species-richness, diversity, rarity and the degree to which a habitat supports species rarely found in other habitats (Defra 2012b).

2.2.2 Habitat Condition

Habitat condition is assessed using the *Farm Environment Plan (FEP) Manual* produced by Natural England (2010). The condition assessments in this manual involve checking features against a list of criteria for habitat in 'good' condition with a multiplier of three. If the area under assessment fails to meet one of the criteria, the condition is 'moderate' with a multiplier of two. If it fails to meet two or more criteria, the condition is 'poor' with a multiplier of one. Some habitats do not fit into the condition assessment guidance set out in the FEP manual and are assessed instead against a generic condition assessment. This has been developed by RSK and includes simplified conditions from the FEP manual that are frequently used for other habitats. In some cases, the criteria may appear inapplicable. This approach ensures that low quality habitats that are not covered in the FEP manual are in poor condition and do not score a multiplier greater than one, while allowing higher quality habitats to achieve greater multipliers.

Where habitats do not meet the criteria set out in the FEP manual, they are assessed instead against a simplified condition assessment developed by RSK. This uses surveyor experience and the approach ensures that low quality habitats in poor



condition do not score a multiplier greater than one, while allowing higher quality habitats to achieve greater multipliers.

2.2.3 Ecological Function and Adjustments

On occasions, the habitat distinctiveness and condition can be altered up or down from the pre- determined value, particularly when considering ecological function. Any alterations are fully explained within the condition assessment using evidence relevant to the site, e.g. an increase in distinctiveness because of rare flora or fauna or a decrease if there has been artificial modification of the habitat.

2.3 Quantifying Impacts

The biodiversity units were then calculated for both the baseline and the postdevelopment site, loosely following the Defra Biodiversity Offsetting pilot scheme methods and guidance set out by Defra (2013a). Habitats were digitised in GIS using field notes. Areas were measured in hectares and linear features in kilometres. The biodiversity unit value for each habitat was then calculated by multiplying the habitat area (or length) by its distinctiveness score and then by its condition score. The unit values for each habitat were then totalled to produce the biodiversity baseline. Linear habitats were assessed separately to areas.

The baseline biodiversity units were then subtracted from the post-development units to determine any change in biodiversity value of the site as a result of the development.

2.4 Assumptions and Limitations

It has been assumed that there will be no changes to habitats beyond the development boundary resulting from the proposed works.

This report seeks to identify any change in biodiversity value and does not discuss the avoidance, mitigation and compensation hierarchy.



3 BIODIVERSITY BASELINE

The phase 1 habitat survey map has been used to identify two habitat area types and two linear habitat types (*Figure 2*). Habitat areas, distinctiveness and condition scores have been calculated and assessed and are displayed in *Table 1*. Linear habitat lengths, distinctiveness and condition scores for linear features are displayed in *Table 1*. All calculations have been rounded to two decimal places. Full details of the condition assessments can be found in *Appendix A*.

Target Note	Phase 1 Habitat	Total Area (ha)	Distinctiveness Condition		Biodiversity score
1	Arable field	16.51	Low	Poor	33.02
2	Rough grassland	1.23	Medium - Low Poor		7.37
	Total Site Area (ha)	17.74	Habitat Areas Biodiversity Units		40.39

Table 1. Baseline Habitat Areas Biodiversity Calculation

Table 2. Baseline Linear Habitats Biodiversity Calculation

Target Note	Phase 1 Habitat	Total Length (km)	Distinctiveness Condition		Biodiversity score
3	Intact hedgerows	0.11	Medium	Poor	0.44
4	Species rich hedgerows	0.37	High	Good	6.66
	Total Length (km)	0.48	Linear Habitats Biodiversity Units		7.10

3.1 Ecological Function and Adjustments

The primary ecological functions of the habitats were:

Nesting habitat for bird species

The hedgerows and mature trees provide nesting habitat for various bird species.

• Providing key foraging resources

The arable fields provide some foraging opportunities for Badgers and the field margins and rough grassland provide habitat for reptiles.

• Providing commuting routes

The canal and hedgerows provide commuting routes for bats.

Overall, the site is considered to have low value for its ecological functions, and the biodiversity units allocated to each habitat should remain unchanged.



4 IMPACTS ON BIODIVERSITY

This section calculates the biodiversity value of the proposed development based on the proposed landscape plan (Jan 2019). The condition assessments of proposed habitats have been based on assumed conditions 5 years after development to allow habitats to develop and become natural, some habitats will require ecological management to ensure the assumed condition is achieved.

4.1 Post-development Biodiversity value of the Site

The proposed landscape plan (Jan 2019) has been used to identify 6 habitat area types and 1 linear habitat type. The areas, distinctiveness and condition scores have been calculated for habitat areas and are displayed in *Table 1*. Linear habitat lengths, distinctiveness and condition scores for linear features are displayed in *Table 1*. All calculations have been rounded to two decimal places. Full details of the assumptions made to determine the distinctiveness and carry out the condition assessments can be found in *Appendix B*.

Target Note	Phase 1 Habitat	Total Area (ha)	Distinctiveness	Condition	Biodiversity score
1	Scrub and tree planting	2.06	Medium	Poor	8.24
2	Dense / continuous scrub	0.88	Medium – Low	Moderate	5.28
3	Grass, wild flowers and margins	2.53	Medium – Low	Moderate	15.18
4	Marina	3.44	High	Poor	20.64
5	Lake	2.15	High	Moderate	25.80
6	Amenity grassland	4.82	Low	Poor	6.22
7	Hardstanding	1.86	None	Poor	0
	Total Site Area (ha)	17.74	Habitat Areas Biodiversity Units		84.78

Table 3. Post-development Habitat Areas Biodiversity Calculation

Table 4. Post-development Linear Habitats Biodiversity Calculation

Target Note	Phase 1 Habitat	Total Length (km)	Distinctiveness	Condition	Biodiversity score
8	Species rich hedgerows	0.41	High Good		7.38
	Total Length (km)	0.41	Linear Habitats Biodiversity Units		7.38

4.2 Change in Biodiversity Value

Under the current proposals set out in the proposed landscape Plan (Jan 2019) there will be a positive gain of + 44.39 biodiversity area units and + 0.28 linear biodiversity units as a result of the proposed development. This is shown in *Table 1*. below.



Table 5. Change in Biodiversity Units Calculation

Post-development Biodiversity Area Units		Baseline Biodiversity Area Units		Change in Biodiversity Area Units
84.78	-	40.39	=	+ 44.39
Post-development Biodiversity Linear Units		Baseline Biodiversity Linear Units		Change in Biodiversity Linear Units
7.38	-	7.10	I	+ 0.28



5 **REFERENCES**

Defra (2012a), Biodiversity Offsetting: Guidance for Developers. Defra, UK

Defra (2012b), Biodiversity Offsetting Pilots: Guidance for Offset Providers. Defra, UK

JNCC (2010), *Handbook for Phase 1 habitat survey - a technique for environmental audit.* JNCC, Peterborough

Natural England (2010) *Higher Level Stewardship. Farm Environment Plan (FEP) Manual* (3rd edition). Natural England, Peterborough.

SB Rice Ltd (Jan 2019). *Proposed Marina at Boddington Road, Claydon, Banbury.* Drawing; A05-020B_Pro site plan 1_1250-1.dwg. unpublished.

RSK (2018), *Claydon Marina Preliminary Ecological Appraisal Report*. Project No. 856968. April 2018. RSK, unpublished.



6 FIGURES AND PLATES

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APPENDIX A – BASELINE DETAILED CONDITION ASSESSMENTS

This appendix presents the assessment of the baseline habitats against the relevant habitat condition criteria given in the Farm Environment Plan (FEP) manual (Natural England 2010). Following the guidelines, the condition is judged to be 'good', if all assessment criteria are met. Where one criterion is failed, the condition is reduced to 'moderate' and if two or more are failed, the condition is given as 'poor'. Some habitats that are not listed in the FEP manual, and therefore a generic condition assessment has been used. The generic condition assessment has been developed by RSK and includes simplified conditions from the FEP manual that are frequently used for other habitats. In some cases, the criteria may appear not applicable, however this ensures that poor habitats don't exceed a multiplier greater than one and enables higher quality habitats to score more units through increased multipliers.

Target Note 1

Phase 1 Habitat	Arable field		
Distinctiveness	Low (2)	Area / Length	16.51 ha
Condition	A diverse age range.		Fail
Assessment	A diverse species mix.		Fail
	Diverse structural variety / diverse form.		Fail
	Presence of protected species.		Fail
	None or a limited presence of invasive species	8.	Pass
	No or limited damage for example by machine	ry.	Fail
		CONDITION RESULT	Poor (1)
Justification	The arable fields are species poor and harvest	ted regularly.	•

Arable field is not listed in the FEP manual therefore a generic condition assessment has been used.

Target Note 2

Rough grassland is not listed in the FEP manual therefore a generic condition assessment has been used.

Phase 1 Habitat	Rough grassland		
Distinctiveness	Medium - Low (3)	Area / Length	0.97 ha
Condition	A diverse age range.		Pass
Assessment	A diverse species mix.		Pass
	Diverse structural variety / diverse form.		Pass
	Presence of protected species.		Fail
	None or a limited presence of invasive species.		Pass
			Pass
			Poor (1)
Justification	The areas of rough grassland are moderately species rich and un managed. No		
	evidence of protected or invasive species was recorded.		



Intact hedge has been assessed against the criteria for Fo2 – High Environmental Value Boundaries, Hedges of High Environmental Value in the FEP manual.

Phase 1 Habitat	Intact hedge		
Distinctiveness	Medium (4)	Area / Length	0.11 km
Condition	Height: The hedgerow must meet a minimum t	hreshold of 2 m in	Fail
Assessment	height. Assess the height of the woody compo	nent of the hedgerow	
	from the base of the stems to the top of the sh	oots of the woody	
	species. This should be assessed along the w	hole length of the	
	hedgerow and the most common height used.	Gaps are not included,	
	nor are hedgerow trees. Where a bank is pres	ent, the height of the	
	bank must be excluded.		
	Width: The hedgerow must meet a minimum the	nreshold of 1.5 m in	Fail
	width. Assess the width of the woody compone		
	tips at the widest point. This should be assessed along the whole		
	length of the hedgerow and the most common		
	not included.		
	Gappiness: Assess the horizontal gappiness o	Pass	
	component. Gaps are complete breaks in the		
	hedgerow. No more than 10% of the hedgerow	•	
	occupied by gaps and no one gap should be g	reater than 5 m wide	
	(this excludes access points and gates). When		
	species of bat are present in the hedgerow the		
		CONDITION RESULT	Poor (1)
Justification	The intact hedgerow is regularly flailed to c.1.5 x 1.5 m and has a few gaps but less than		
	10% gaps.		

Target Note 3

Species rich hedge has been assessed against the criteria for Fo2 – High Environmental Value Boundaries, Hedges of High Environmental Value in the FEP manual.

Phase 1 Habitat	Species rich hedge		
Distinctiveness	Medium (4)	Area / Length	0.37 km
Condition	Height: The hedgerow must meet a minimum t	hreshold of 2 m in	Pass
Assessment	height. Assess the height of the woody component of the hedgerow		
	from the base of the stems to the top of the sh	oots of the woody	
	species. This should be assessed along the w	hole length of the	
	hedgerow and the most common height used.	Gaps are not included,	
	nor are hedgerow trees. Where a bank is prese	ent, the height of the	
	bank must be excluded.		
	Width: The hedgerow must meet a minimum the	nreshold of 1.5 m in	Pass
	width. Assess the width of the woody compone	ent between the shoot	
	tips at the widest point. This should be assess		
	length of the hedgerow and the most common		
	not included.		
	Gappiness: Assess the horizontal gappiness o	Pass	
	component. Gaps are complete breaks in the v		
	hedgerow. No more than 10% of the hedgerow	Iength should be	
	occupied by gaps and no one gap should be g	reater than 5 m wide	
	(this excludes access points and gates). When		
	species of bat are present in the hedgerow the		
		CONDITION RESULT	Poor (1)
Justification	The species rich hedgerow is unmanaged and outgrown up to 8 m tall and over 2 m wide		
	with less than 10% gaps.		



APPENDIX B – POST-DEVELOPMENT DETAILED CONDITION ASSESSMENTS

This appendix presents the assessment of the post-development habitats against the relevant habitat condition criteria given in the Farm Environment Plan (FEP) manual (Natural England 2010). To allow time for habitats to develop and become natural the condition assessments are based on an assumed condition 5 years after the development has been completed.

Target Note 1

Scrub and tree planting has been assessed against the criteria for Vo5 – Scrub of High Environmental Importance.

Phase 1 Habitat	Scrub and tree planting		
Distinctiveness	Medium (4)	Area / Length	2.06 ha
Condition	There are at least three woody species, with n	o one species	Pass
Assessment	comprising more than 75% of the cover (excep	ot common juniper, sea	
	buckthorn or box, which can be 100% cover)		
	There is a good age range – a mixture of seed	lings, saplings, young	Fail
	shrubs and mature shrubs.		
	Pernicious weeds and invasive species make	Pass	
	ground cover.		
	The scrub has a well-developed edge with ung	Pass	
	There are many clearings and glades within th	Fail	
	CONDITION RESULT Poor (1)		
Justification	It has been assumed that there will be at least three woody species and no weeds or		
	invasive species will be introduced. It will likely take more than 5 years for the trees to		
	mature and for clearing / glades to develop.		

Target Note 2

Scrub planting has been assessed against the criteria for Vo5 – Scrub of High Environmental Importance.

Phase 1 Habitat	Scrub planting			
Distinctiveness	Medium - Low (3)	Area / Length	0.88 ha	
Condition	There are at least three woody species, with n	o one species	Pass	
Assessment	comprising more than 75% of the cover (excep	ot common juniper, sea		
	buckthorn or box, which can be 100% cover)			
	There is a good age range - a mixture of seed	lings, saplings, young	Pass	
	shrubs and mature shrubs.			
	Pernicious weeds and invasive species make	Pernicious weeds and invasive species make up less than 5% of the		
	ground cover.			
	The scrub has a well-developed edge with ung	Pass		
	There are many clearings and glades within th	Fail		
	CONDITION RESULT Moderate			
Justification	It has been assumed that there will be at least three woody species and no weeds or			
	invasive species will be introduced. It has been assumed that there will be a good age			
	range and a well-developed edge to the areas scrub. It will likely take more than 5 years			
	for clearing / glades to develop.			



Grass, wild flowers and margins is not listed in the FEP manual therefore a generic condition assessment has been used.

Phase 1 Habitat	Grass, wild flowers and margins		
Distinctiveness	Medium - Low (3)	Area / Length	2.53 ha
Condition	A diverse age range.		Pass
Assessment	A diverse species mix.		Pass
	Diverse structural variety / diverse form.		Pass
	Presence of protected species.		Fail
	None or a limited presence of invasive species	S.	Pass
	No or limited damage for example by machine	Pass	
		CONDITION RESULT	Moderate (2)
Justification	It has been assumed that areas of grass, wild flowers and margins will be species rich		
	with diverse ages ranges and structure. No invasive species will be introduced and there		
	will be no inappropriate management or damage. The habitat may have the potential to		
	support protected species but their presence cannot be guaranteed.		

Target Note 4

Marina has been assessed against the criteria for W07 – Ponds.

Phase 1 Habitat	Marina			
Distinctiveness	High (6)	Area / Length	3.44 ha	
Condition	The pond should be set within a semi-natural h	abitat.	Fail	
Assessment	It should be within 500 m of another wetland fe	ature (such as a pond,	Pass	
	river or fen).			
	There should be no obvious sign of pollution or	of inappropriate quality	Fail	
	of the water supply.			
	There should be an absence of damaging non-	native plant or animal	Pass	
	species. Damaging plants include water fern, A	ustralian swamp		
	stonecrop, parrot's feather, floating pennywort	and Japanese knotweed		
	(on the bank). Damaging animals include non-i	n the bank). Damaging animals include non-native crayfish, reptiles		
	and amphibians.			
	The pond should not be stocked with fish or su	Fail		
	numbers of wildfowl			
	It should experience only natural fluctuations in	water levels.	Pass	
		CONDITION RESULT	Poor (1)	
Justification	The marina will be within 500 m of other wetland features. It has been assumed that no			
	invasive species will be introduced. As the marina is likely to contain boats there is a risk			
	of pollution and water levels will need to be maintained. Although the marina might not			
	be stocked with fish there will be access via th	e canal.		



Phase 1 Habitat	Lake			
Distinctiveness	High (6) Area / Length	2.15 ha		
Condition	The pond should be set within a semi-natural habitat.	Fail		
Assessment	It should be within 500 m of another wetland feature (such as a pond,	Pass		
	river or fen).			
	There should be no obvious sign of pollution or of inappropriate quality	Pass		
	of the water supply.			
	There should be an absence of damaging non-native plant or animal	Pass		
	species. Damaging plants include water fern, Australian swamp			
	stonecrop, parrot's feather, floating pennywort and Japanese knotweed			
	(on the bank). Damaging animals include non-native crayfish, reptiles and amphibians.The pond should not be stocked with fish or support damagingPass			
	numbers of wildfowl			
	It should experience only natural fluctuations in water levels.	Pass		
	CONDITION RESULT	Moderate (2)		
Justification	The lake will be artificial and adjacent to the marina. It has been assumed that no			
	invasive species or pollution will be introduced and that it will not be stocked with fish.			
	Water levels will only experience natural fluctuation.			

Lake has been assessed against the criteria for W07 – Ponds.

Target Note 6

Amenity grassland is not listed in the FEP manual therefore a generic condition assessment has been used.

Phase 1 Habitat	Amenity grassland		
Distinctiveness	Medium - Low (3)	Area / Length	4.82 ha
Condition	A diverse age range.		Fail
Assessment	A diverse species mix.		Fail
	Diverse structural variety / diverse form.		Fail
	Presence of protected species.		Fail
	None or a limited presence of invasive species.		Pass
	No or limited damage for example by machinery.		Pass
		CONDITION RESULT	Poor (1)
Justification	It has been assumed that the areas of amenity grassland will be species poor and		
	regularly cut.		



Buildings and hardstanding is not listed in the FEP manual therefore a generic condition assessment has been used.

Phase 1 Habitat	Buildings and hardstanding		
Distinctiveness	None (0)	Area / Length	1.86 ha
Condition	A diverse age range.		Fail
Assessment	A diverse species mix.		Fail
	Diverse structural variety / diverse form.		Fail
	Presence of protected species.		Fail
	None or a limited presence of invasive species	S.	Pass
	No or limited damage for example by machine	ry.	Fail
		CONDITION RESULT	Poor (1)
Justification	It has been assumed that the buildings and are	eas of hardstanding are u	nlikely to support
	many species.		

Target Note 8

Species rich hedge has been assessed against the criteria for Fo2 – High Environmental Value Boundaries, Hedges of High Environmental Value in the FEP manual.

Phase 1 Habitat	Species rich hedge		
Distinctiveness	Medium (4)	Area / Length	0.37 km
Condition	Height: The hedgerow must meet a minimum t	hreshold of 2 m in	Pass
Assessment	height. Assess the height of the woody compo	nent of the hedgerow	
	from the base of the stems to the top of the sh		
	species. This should be assessed along the w	hole length of the	
	hedgerow and the most common height used.	Gaps are not included,	
	nor are hedgerow trees. Where a bank is pres	ent, the height of the	
	bank must be excluded.		
	Width: The hedgerow must meet a minimum the	nreshold of 1.5 m in	Pass
	width. Assess the width of the woody compone	ent between the shoot	
	tips at the widest point. This should be assess		
	length of the hedgerow and the most common		
	not included.		
	Gappiness: Assess the horizontal gappiness o	Pass	
	component. Gaps are complete breaks in the		
	hedgerow. No more than 10% of the hedgerow length should be		
	occupied by gaps and no one gap should be g		
	(this excludes access points and gates). When	•	
	species of bat are present in the hedgerow there must be no gaps.		
		CONDITION RESULT	Good (3)
Justification	It has been assumed that the sections of retained intact hedge will be enhanced to		
	become species rich and allowed to grow at least 2 m high and 1.5 m wide with less than		
	10% gaps.		