# Ecology Addendum Appendix A

Bats

# Legislation

All species of British bats are legally protected under Regulation 43 of the Conservation of Habitats and Species Regulations 2017. These Regulations make it an offence to:

- Deliberately capture, injure, or kill a bat;
- Deliberately disturb bats, impairing their ability to survive, breed, reproduce or rear/nurture their young;
- Damage or destroy a breeding site or resting place used by bats; or
- Be in possession of, transport, sell, exchange or offer to sell/exchange a bat (dead or alive) or any part of a bat.

All bats and their roosts in England, Scotland and Wales were originally protected under the Wildlife & Countryside Act 1981. Subsequent amendments to the legislation for England and Wales has removed bats from most of the provisions of the Act, however it remains an offence to:

- Intentionally or recklessly disturb a bat while it is occupying a structure or place which it uses for shelter or protection; or
- Intentionally or recklessly obstruct access to any structure or place that a bat uses for shelter or protection.

Disturbance of bats is covered by both the 2017 Regulations and the 1981 Act, with the magnitude of disturbance critical. Disturbance that impairs survival or successful reproduction would be covered by the Regulations with no legal defence existing. Less significant acts of disturbance may only be covered by the Wildlife & Countryside Act 1981, which includes some legal defences that may be applied in certain circumstances.

It is important to note that bat roosts are protected throughout the year, regardless of whether or not bats are present at the time. Under the Conservation of Habitats and Species Regulations the offence of damaging or destroying a breeding site or resting place of bats is not subject to any legal defence, i.e. an offence will have been committed even if the damage or destruction occurs accidentally.

# Licensing

Where development is proposed that would result in an offence under the Habitats and Species Regulations a European Protected Species (EPS) licence needs to be granted by Natural England to permit an act that would otherwise be unlawful. This provides for a specific derogation from the legislation, to prevent a legal infringement occurring. To obtain an EPS licence for development it must be demonstrated that the purpose of the act to be licensed is for:

• "preserving public health or public safety or other imperative reasons of overriding public interest including those of social or economic nature and beneficial consequences of primary importance for the environment" (Regulation 53(2)(e)).

In addition, Natural England will not grant an EPS licence unless they are satisfied that:

- "There is no satisfactory alternative" (Regulation 53(9)(a)); and
- "The action authorised will not be detrimental to the maintenance of the population of the species concerned at a favourable conservation status in their natural range" (Regulation 53(9)(b)).

## Methods

## Bat Activity Transects, 2020

A total of three transect surveys were undertaken across the Site between May and July 2020 to sample the distribution of bat activity onsite, and the number of species present. A single transect route was walked by each surveyor/surveyor pair, with the aim of sampling all accessible parts of the Site on multiple occasions throughout each survey. Repeated transects were undertaken to increase the survey coverage of the Site both spatially and temporally.

Each transect was walked at a moderate and consistent speed with detection and observation of bat behaviour recorded during the survey. Each transect survey commenced at sunset, for at least two hours, and were undertaken during suitable weather conditions as summarised in Table below.

Hand-held Elekon Batlogger M detectors were used to aid detection and observation of bat activity (with heterodyne automatically-tuned audio output). In addition, all ultrasonic audio data was recorded by the Batlogger, with a one second delay between recordings. At the point of contact, each sound file is assigned a GPS location and temperature reading. Surveyor location was continually recorded by the Batlogger to create a 'track' of the walked transect.

Ultrasonic recordings were subsequently analysed using BatExplorer software, where audio data is presented in sonographic format and can be reviewed in real time and at full spectrum. Sonograms were reviewed to identify any bat call 'pulses' and/or the presence of non-bat audio data. Non-bat 'noise' files were removed from the data set. Where possible, confirmed bat calls were assigned a bat species (noctule *Nyctalus noctula*), genus (e.g. *Nyctalus* sp.) or group (e.g. 'big bat') label based on known parameters (e.g. peak frequency of call, call duration, inter-pulse interval etc).

The transect survey design, data analysis and interpretation have been undertaken with consideration of the Bat Conservation Trust (BCT) guidelines 3rd Edition (BCT, 2016).

## Limitations

Batlogger M detectors automatically assign a GPS location to each bat contact, allowing distribution maps to be plotted (see Results section of this report). The accuracy of the GPS locations provided for each contact is variable and may depend on the number of satellites available and the strength of the signal received. This in turn is affected by environmental conditions such as cloud or tree canopy cover. The accuracy of GPS coordinates may vary between 5-15m during a transect survey and, as a result, this must be taken into account when viewing the distribution maps within this report.

## Remote Monitoring of Bat Activity, 2020

Remote monitoring was undertaken in order to provide additional data to inform the assessment of bat activity across the Site. The extended time period covered by this type of survey allows for a more accurate assessment of bat species diversity and activity levels to be made.

Three Wildlife Acoustics SM4 detectors were installed on-site on three occasions (May, June and July 2020) during the bat active period and left to record automatically for the hours between half an hour before sunset and half an hour after sunrise, for at least five consecutive days. All bat data was analysed to provide allow for the maximum number of species to be recorded as possible, rather than the relative activity between months. Bat call data, was analysed using the latest Analook software to identify the species present.

# Limitations

It should be noted that the findings described herein for remote monitoring surveys are based on the bat activity recorded at the location immediate to each detector, and therefore only describe localised activity at the Site.

## Emergence & Return to Roosts Surveys of Trees, 2020

Emergence and return to roost survey were undertaken of six trees across the Site predicted to be removed as part of the proposed schemem to confirm the presence/likely absence of roosting bats. A summary of survey dates is provided in Table A

The dusk emergence/dawn re-entry surveys were undertaken for approximately 1.5 hours following British Summer Time (BST) sunset and 1.5 hours prior to BST sunrise respectively, with due consideration for the BCT good practice guidelines. The survey was/surveys were all led by Jamie Woollam CEcol in suitable weather conditions. During the survey, the surveyors watched for any bats entering parts of the /trees or using key flight lines, equipped with an Elekon BatLogger M or Wildlife Acoustics EM3 bat detectors.

An infrared video camera rig (Sony Handycam HDR SR5E) was used in conjunction with surveys to film any bats entering/emerging from potential roost features. A Wildlife Acoustics EM3 bat detector was affixed to the camera rig to record bat calls and thereby assist with identifying the species of any bats filmed emerging from/returning to roost in association with the building/tree.

Following the survey all bat calls were downloaded from the EM3 detectors and BatLoggers and analysed using AnalookW v.4.1z and BatExplorer Software, respectively, to enable species identification, where possible, and quantitative analysis of the data.

#### Results

#### Bat Activity Transects 2020

A summary of survey conditions are provided below, with survey routes, results and bat utilisation of the Site presented on the Bat Survey Plan 2020. A total count of all species recorded across all transects is also provide below.

Survey	Sunset	Start	End	Temperat	ture (°C)	Precipitation	Clo Cov (Ok	ud ver tas)	Wir (Bear Sca	nd ufort le)
Date	Time	lime	lime	Start	End		Star t	En d	Start	End
28/05/2 0	21:10	21:10	23:10	16	14	Dry	0	3	0	2
22/06/2 0	21:27	21:27	23:27	18	16	Dry	0	0	1	1
14/07/2 0	21:16	21:16	23:16	16	13	Dry	2	4	1	1

Species/Genera	Total count of 'passes' by species across all transects across all surveys
Pipistrellus pipistrellus	520
Pipistrellus pygmaeus	14
Myotis sp.	4
Eptesicus serotinus	1
Plecotus auritus	1
Nyctalus noctula	1

Remote Monitoring of Bat Activity 2020

A summary of remote monitoring conditions are provided below, with locations of bat remote monitoring detectors presented on the Bat Survey Plan 2020. A total count of all passes of all species recorded across all transects is also provide below.

Survey	Dates	Tempe (°	erature C)	Draginitation	Cle Cove	oud er (%)	Wind (mph)	
Month	Sampled	Min	Max	recipitation	Min	Max	Min	Мах
Мау	07/05/20	10	13	Light rain at 21:00 and 00:00	20	88	2	3
Мау	08/05/20	11	17	Light rain at 21:00 and 00:00	14	85	1	1
Мау	09/05/20	9	13	Dry	22	61	1	2
Мау	10/05/20	3	4	Dry	4	55	4	4
Мау	11/05/20	0	4	Dry	0	3	3	4
Мау	12/05/20	2	5	Dry	5	62	2	4
Мау	13/05/20	0	5	Dry	0	17	3	3
June	28/05/20	7	14	Dry	6	8	2	3
June	29/05/20	5	13	Dry	2	41	2	3
June	30/05/20	7	14	Dry	3	11	3	3
June	31/05/20	7	14	Dry	0	57	3	3
June	01/06/20	8	17	Very light rain at 21:00 and 00:00	6	81	2	3
June	02/06/20	12	15	Very light rain at 03:00	8	80	1	3
June	03/06/20	7	10	Very light rain at 21:00 and 00:00	80	100	3	4
June	04/06/20	8	9	Very light rain at 21:00	33	89	3	4
July	06/07/20	9	12	Dry	3	92	2	3
July	07/07/20	8	15	Moderate rain all night	100	100	3	4
July	08/07/20	15	15	Light rain at 21:00 and 03:00	100	100	3	4
July	09/07/20	11	12	Moderate rain at 21:00, very light rain at 03:00	47	100	3	4
July	10/07/20	8	11	Dry	3	22	3	3
July	11/07/20	10	13	Dry	0	2	1	2
July	12/07/20	12	14	Dry	28	44	1	2
July	13/07/20	13	15	Light rain at 21:00	48	100	3	3

Species/Genera	Total count of 'passes' by species across all transects across all surveys
Pipistrellus pipistrellus	23887
Pipistrellus pygmaeus	1247
Myotis sp.	22
Eptesicus serotinus	3
Plecotus auritus	7
Nyctalus noctula	132

Emergence & Return to Roosts Surveys 2020

A summary of emergence and return to roost surveys are provided in Table A below, with location of trees/groups of trees surveys presented on the Bat Survey Plan 2020.

Tree (individual or group) Reference	Structure Description / Tree Species	Features / Evidence	Bat Roost Potential	Anticipated Effects of Proposed Scheme	Survey (s) Summary	Further Safeguarding/ Mitigation
Individual Tree	es	1	1	1		
T4	Common ash	Rot on limbs, storm damage	Moderate	Potential felling required subject to detailed design	Dawn return to roost survey 05/05/2020 (min. 10°C, 3/8 cloud cover, no rain, light wind) & dusk emergence survey 03/06/2020. (min. 7°C, 8/8 cloud cover, very light rain, light wind) No bat roosts identified.	Precautionary aerial inspection/ nocturnal survey prior to felling.
Τ7	Common Ash	Storm damage to limbs and stems, rot/dead wood	Moderate	To be felled for vehicular access road	Dusk emergence survey 04/05/2020 (min. 12°C, 4/8 cloud cover, no rain, light wind) & dawn return to roost survey 04/06/2020 (min. 7°C, 8/8 cloud cover, no rain, light wind) <b>No bat roosts identified.</b>	Precautionary aerial inspection/ nocturnal survey prior to felling.
T11	Common ash	Large cavities and rot holes	High	Potential felling required subject to detailed design	Dusk emergence surveys 07/05/2020 (min. 10°C, 3/8 cloud cover, no rain, light wind) & 16/06/2020 (min. 7°C, 2/8 cloud cover, no rain, light wind), dawn return to roost survey 15/07/2020 (min. 16°C, 4/8 cloud cover, no rain, light wind), <b>No bat roosts identified.</b>	Precautionary aerial inspection/ nocturnal survey prior to felling.
T+1	Common ash	Rot holes and woodpecker holes	Moderate	Potential felling required subject to detailed design	Dusk emergence survey 19/05/2020 (min. 5°C, 4/8 cloud cover, no rain, light wind), & dawn return to roost survey 23/06/2020 (min. 16°C, 4/8 cloud cover, no rain, light wind). <b>No bat roosts identified.</b>	Precautionary aerial inspection/ nocturnal survey prior to felling.
Groups of free	es					

 Table A Emergence & Return to Roost Survey Results Summary

G11 (Woodland W5)	Pedunculate oak, Scots pine and common ash	Range of features, including extensive rot holes, standing deadwood, cavities, split limbs, bark	High	A number of trees to be felled for vehicular access road	Two mature oak trees (W5i & W5ii) are anticipated to be removed as part of vehicular access through woodland W5. Surveys of these trees conducted: Dusk emergence survey 14/05/2020 (min. 8°C, 4/8 cloud cover, no rain, light wind) & 29/06/2020 (min. 13°C, 2/8 cloud cover, no rain, light wind), dawn return to roost survey 12/06/2020 (min. 9°C, 7/8 cloud cover, no rain, light wind), <b>No bat roosts identified.</b>	Aerial inspection/ nocturnal survey prior to felling subject to detailed design through W5
G14 (Woodland W4a &b)	Woodland of oak, ash, field maple and hybrid black poplar	Range of features, including extensive rot holes, standing deadwood, cavities, split limbs, bark	High	A number of trees to be felled for vehicular access road	Further inspection of trees to be subject to removal through detailed access design carried out 27/08/2020 - three semi-mature oaks and single field maple to be removed within W4b. <b>No features with potential to</b> <b>support roosting bats recorded</b> from ground.	If other trees effected precautionary aerial inspection/ nocturnal survey prior to felling subject to detailed design W4b





Dixies Barns, High Street, Ashwell, Hertfordshire SG7 5NT

t 01462 743647 e ashwell@csaenvironmental.co.uk

Project	South West Milton Keynes	Date	Aug' 2020	Drawing No.	CSA/4857/133
Drawing Title	Bat Survey Plan 2020	Scale	NTS	Rev	-
Client	Taylor Wimpey UK Ltd, William Davis Ltd, Hallam Land Management Ltd, Bellcross Homes and Connolly Homes	Drawn	СН	Checked	JW



Site boundary

Transect routes

Х

Tn

Remote monitoring locations

Common pipistrelle bat

Soprano pipistrelle bat

Brown long-eared bat

Noctule bat

Serotine bat

Tree subject to further surveys / inspections

# Ecology Addendum Appendix B

Birds



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# Ecology Addendum Appendix C

Reptiles

 Table 1 Reptile Survey Results

	-														-								
Job Name & No.			4857 South We	est Milton Keyn	es		<u>Beaufort Sc</u>	<mark>ufort Scale:</mark> alm. Vertical smoke. abt air. Smoke drifts						<u>Precipitation,</u>	select from:								
Set-up Surveyor			CH (CSA) 2020	0 / Unknown 20	013		1. Light air. 2. Light bre 3. Gentle b	Smoke drifts. eeze. Leaves ru preeze. Small ty	istle. wigs constantly	move.					<u>Type:</u> No Rain/Light	/Moderate/He	eavy						
Set-Up Date			13/03 Apr	3/2020 & ril 2013			5. Fresh bre	eeze. Small tree	es in leaf begin	to sway.					Intermittent /	Continuous							
				Wed	ather				Slow	worm Anguis fro	agilis			Commo	mmon lizard Zootoca vivipara Grass snake Natrix natrix(syn					n. N.helvetica)			
Date	Time	Surveyor	Temp (°C)	Cloud Cover (Oktas; n/8)	Wind (Beaufort Scale)	Rain (type & duration)	Area/ Field No	Adult Male (>230mm)	Adult Female (>230mm)	Unidentified Adult	Sub-Adult	Newborn	Male	Female	Unidentified Adult	Sub-Adult	Newborn	Male	Female	Unidentified Adult	Sub-Adult	Newborn	Other notes
03/04/2020	10:00-12:00	Mſ	10-13	8	2	No rain	E														1		
07/04/2020	12:00 15:00	1147	17.10	0			А														1		
0770472020	13:00-15:00	٦vv	16-18	0	0	NO rain	E														1		
							E														1		
08/04/2020	11:00-13:00	Mſ	18-20	0	0	No rain	G								1								Western end of G.
							NA								1								On southern boundary, outside of survey area.
21/04/2020	11:00-13:00	Mſ	11-13	3	4	Light rain, intermittent	-																No sightings
23/04/2020	14:30-16:30	Mſ	12-14	2	3	No rain	-																No sightings
							E													1			
28/04/2020	15:00- 17:00	٦W	13-24	4	3	No rain	G								1								Western end of G.
01//05/0000	00.00 11.00	1347	10.10	0	2	N la varia	A																No sightings
26/05/2020	15:00-18:00	СН	12-10	2	1	No rain	 F														1		Eastern end of E. Refugia collected
20,00,2020			10 22	-											I						· · ·		
24/04/2013	AM	-	14	0	2	No rain	-																
15/05/2013	PM	-	18	6	0	No rain	-																
23/05/2013	AM	-	12	6	2	No rain	DD								1								
12/06/2013	AM	-	17	4	0	No rain	AA													1			
26/06/2013	PM	-	18	4	0	No rain	-																
01/07/2013	AM	-	16	7	3	No rain	-																
09/07/2013	PM	-	17	0	2	No rain	-		<b>_</b>					<b></b>					-				
									Iotal Adult		Iotal .	Juvenile		Iotal Adult		íotal .	Juvenile		Iotal Adult		lotal J	uvenile	
									0			0		4			0		2			6	1

# Ecology Addendum Appendix D

Amphibians

Pond r	eference	P1	a					Torch					Egg search	Larvae
Sur	veyors	AC; J\	N; CH		Torch	power:			>= 1,000	,000 cp	2			GCN
Con	nments	Wetlan	d area		G	CN		Smooth newt	Palmate newt	Smoo	Smooth/Palmate		GCN eggs	larvae found?
	Sex/life stage:					1	NIC <sup>4</sup>		<b>N</b> 4	E	Incom	NIC	tounae	(any
Date:	Air temp (°C)	temp (°C) Veg cover <sup>1</sup> Turbidity <sup>2</sup>				Imm.	IN2	171	/~1	Г		142		method)
19.03.2020	5	1	1	-	-	-	-	-	-	-	-	-	No	No
24.03.2020	5	1	1	-	-	-	-	-	-	-	-	-	No	No
27.04.2020	8	1	1	-	-	-	-	-	-	-	-	-	No	No
30.04.2020	7	1	1	-	-	-	-	-	-	-	-	-	No	No
14.05.2020	12	1	1	_	_	-	-	_	-	-	-	-	No	No
19.05.2020	19.05.2020 11					DRY								No
				Peak adult GCN count for this pond										

Pond r					Torch					Egg search	Larvae			
Sur	veyors	AC; J\	N; CH		Torch	power:			>= 1,000	,000 cp	C			GCN
Con	nments	Wetlan	d area		G	CN		Smooth newt	Palmate newt	Smooth/Palmate		mate	GCN eggs	larvae found?
	Sex/life stage:					1	NIC4			Е	Imm	NIS	tounae	(any
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	1~1	Г	imm <sup>*</sup>	1/12	/~1	/~1	Г		143		method)
19.03.2020	5	1	1	-	-	-	-	-	-	-	-	-	No	No
24.03.2020	5	1	1	-	-	-	-	-	-	-	-	-	No	No
27.04.2020	8	1	1	-	-	-	-	-	-	-	-	-	No	No
30.04.2020	7	1	1	-	-	-	-	-	-	-	-	-	No	No
14.05.2020	12					DRY							No	No
19.05.2020	11					DRY							No	No
					Peak adult GCN count for this pond									
								0						

Pond reference P1c					Torch									Larvae
Surveyors AC; JW; CH					Torch power: >= 1,000,000 cp								GCN	
Comments Backwater of ditch					G	CN		Smooth newt	Palmate newt	Smoo	oth/Palı	mate	GCN eggs	larvae found?
	Sex	<pre></pre>			Б	1	NIC4			Е	Inama	NIC	tounde	(any
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	171	Г	Imm <sup>2</sup>	N2.	1~1	171	Г		142		method)
19.03.2020	5	3	2	1			-	-	-	-	-	-	No	No
24.03.2020	24.03.2020 5 4 1				-	-	-	-	_	-	-	-	No	No

27.04.2020	8	4	2	_	-	-	-	-	-	-	-	-	No	No	
30.04.2020	7	4	2	-	1	-	-	-	-	-	-	-	No	No	
14.05.2020	12					DRY							No	No	
19.05.2020	11			_		DRY							No	No	
			Peak adult GCN count for this pond												

#### ]

Pond re	eference	P	2					Torch					Egg search	Larvae
Surv	veyors	AC; J\	N; CH		Torch	power:			>= 1,000	,000 cp	C			GCN
Con	nments	On-line with dit	ch, likely to dry		G	CN		Smooth newt	Palmate newt	Smoo	oth/Pal	mate	GCN eggs	larvae found?
	Sex/life stage:				Б	1	NIC <sup>4</sup>	N 4		_	Imm	NIS	tounde	(any
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	1~1	Г	Imm <sup>*</sup>	IN2	171	1~1	Г	1111111	143		method)
19.03.2020	5	0	4	-	-	-	-	-	-	-	-	-	No	No
24.03.2020	5	0	1	-	-	-	-	-	-	-	-	-	No	No
27.04.2020	8		DRY									_		
						Peo	ık adul	t GCN cou	nt for this po	ond				
							0							

Pond r	eference	P6	a					Torch					Egg search	Larvae
Sur	veyors	AC; JV	N; CH		Torch	power:			>= 1,000	,000 cp	)			GCN
Con	nments	Off-site beyond of no further sur	dispersal barrier, vey required		G	CN		Smooth newt	Palmate newt	Smoo	oth/Palı	mate	GCN eggs	larvae found?
	Sex	k/life stage:		N 4	F	luce use 3	NIC4	N 4	٨ <i>٨</i>	ц	Imm	NIS	tounde	(any
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	1~1	Г	imm <sup>*</sup>	122	1~1	171	Г	111111	143		method)
19.03.2020	5	5	3	-	-	-	-	-	-	-	-	-	No	No
24.03.2020	7	5	3	-	-	-	-	-	-	1	-	-	No	No
						Pea	ık adul	t GCN cou	nt for this po	ond				
								0					]	

Pond r	eference	P6	b					Torch					Egg search	Larvae
Sur	veyors	AC; JV	V; CH		Torch	power:			>= 1,000	,000 cp	)			
Comments Comments Comments		present; Off-site sal barrier, not ey required		G	CN		Smooth newt	Palmate newt	Smoo	oth/Palr	mate	GCN eggs found?	GCN larvae found? (any	
	Sex	/life stage:			F	1	NIC4			-	luce use	NIC		method)
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	IM	Г	Imm <sup>2</sup>	N2	IM	IVI	Г	ILLUL	1/2		

19.03.2020	5	2	3	15	10	-	-	2	-	2	-	-	No	No
24.03.2020	7	2	3	5	4	-	-	-	-	2	-	-	No	No
				Peak adult GCN count for this pond										

Pond r	reference	P6	c					Torch					Egg search	Larvae
Sur	veyors	AC; J\	N; CH		Torch	power:			>= 1,000	,000 cp	2			
Cor	nments	Common toad, site beyond disp further surve	frogspawn; Off- ersal barrier, no ey required		G	CN		Smooth newt	Palmate newt	Smoo	oth/Pal	mate	GCN eggs found?	GCN larvae found? (any
	Sex/life stage:				Е	3	NIC <sup>4</sup>	N 4		Е	Imm	NIS		method)
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	171	Г	Imm	IN2	171	171	Г	11 1 11 11	143		
19.03.2020	5	3	0	5	2	-	-	-	-	2	-	-	No	No
24.03.2020	1.03.2020 7 3 1			15	8	-	-	-	-	-	-	-	No	No
						Pec	ık adul	t GCN cou	nt for this po	ond				
							23							

Pond r	eference	P6	d					Torch					Egg search	Larvae
Sur	veyors	AC; JV	N; CH		Torch	power:			>= 1,000	,000 cp	C			
Con	nments	Common toad, site beyond disp further surve	frogspawn;Off- ersal barrier, no ey required		G	CN		Smooth newt	Palmate newt	Smo	oth/Pal	mate	GCN eggs found?	GCN larvae found? (any
	Sex/life stage:					. 3	N10 <sup>4</sup>			F	line ine	NIC		method)
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	IM	Г	Imm°	N2.	171	1~1	Г	Irmrn	1/12		
19.03.2020	5	1	0	-	1	-	-	-	-	1	-	-	No	No
24.03.2020	.03.2020 7 1 1			-	1	-	-	-	-	2	-	-	No	No
						Peo	ık adul	t GCN cou	nt for this po	ond				
								1						

Pond reference	P6e		Torch			Egg search	Larvae
Surveyors	AC; JW; CH	Torch power:		>= 1,000	,000 ср		
Comments	Off-site beyond dispersal barrier, no further survey required	GCN	Smooth newt	Palmate newt	Smooth/Palmate	GCN eggs found?	GCN larvae found? (any
Sex	<td></td> <td>N 4</td> <td>A 4</td> <td></td> <td></td> <td>method)</td>		N 4	A 4			method)

Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	171	Г	Imm°	N2.	IVI	IM	Г	111111	142		
19.03.2020	5	4	2	-	-	-	-	2	-	1	-	-	No	No
24.03.2020	7	4	1	2	-	-	-	-	-	1	-	-	No	No
				Peak adult GCN count for this pond										

Peak adult GCN count for this pond

	_
2	

Pond reference         P6f           Surveyors         AC; JW; CH							Torch					Egg search	Larvae
	AC; J\	N; CH		Torch	power:			>= 1,000	,000 cp	)			GCN
	Dry - survey	not possible		G	CN		Smooth newt	Palmate newt	Smoo	oth/Pal	mate	GCN eggs	larvae found?
Sex/life stage: Air temp (°C) Veg cover <sup>1</sup> Turbidity <sup>2</sup>		М	F	Imm <sup>3</sup>	NS <sup>4</sup>	м	М	F	Imm	NS	touna?	(any method)	
,			-	-	-	-	-	-	-	-	-	No	No
			-	-	-	_	-	-	-	_	-	No	No
						ık adul	t GCN cou	nt for this po	ond				
	Se× (°C)	President       AC; JV       Dry - survey       Sex/life stage:       (°C)       Veg cover <sup>1</sup>	P6f       AC; JW; CH       Dry - survey not possible       Sex/life stage:       (°C)     Veg cover <sup>1</sup> Turbidity <sup>2</sup>	P6f       AC; JW; CH       Dry - survey not possible       Sex/life stage:       (°C)       Veg cover¹       Turbidity²       -       -       -	P6f         Torch           AC; JW; CH         Torch           Dry - survey not possible         G           Sex/life stage:         M           (°C)         Veg cover <sup>1</sup> Turbidity <sup>2</sup> -         -           -         -           -         -	P6f       AC; JW; CH     Torch power:       Dry - survey not possible $GCN$ Sex/life stage:     M     F     Imm <sup>3</sup> (°C)     Veg cover <sup>1</sup> Turbidity <sup>2</sup> M     F     Imm <sup>3</sup> Imm     -     -     -       Imm     -     -     -	P6f         AC; JW; CH       Torch power:         Dry - survey not possible       GCN         Sex/life stage:       M       F       Imm <sup>3</sup> NS <sup>4</sup> (°C)       Veg cover <sup>1</sup> Turbidity <sup>2</sup> M       F       Imm <sup>3</sup> NS <sup>4</sup> -       -       -       -       -       -       -         0       -       -       -       -       -       -         -       -       -       -       -       -       -	P6f       Torch         AC; JW; CH       Torch power:       Torch         Dry - survey not possible       GCN       Smooth newt         Sex/life stage:       M       F       Imm <sup>3</sup> NS <sup>4</sup> M         (°C)       Veg cover <sup>1</sup> Turbidity <sup>2</sup> M       F       Imm <sup>3</sup> NS <sup>4</sup> M         Imm       I	P6f       Torch         AC; JW; CH       Torch power:       >= 1,000         Dry - survey not possible $GCN$ Smooth newt       Palmate newt         Sex/life stage:       M       F       Imm³       NS <sup>4</sup> M       M         (°C)       Veg cover <sup>1</sup> Turbidity <sup>2</sup> M       F       Imm³       NS <sup>4</sup> M       M         Imm³       Peak adult GCN count for this portion       -       -       -       -       -         Imm³       Peak adult GCN count for this portion       -       -       -       -       -	P6f       Torch         AC; JW; CH       Torch power:       >= 1,000,000 cp         Dry - survey not possible $GCN$ Smooth newt       Palmate newt       Smooth newt         Sex/life stage:       M       F       Imm³       NS <sup>4</sup> M       M       F         (°C)       Veg cover <sup>1</sup> Turbidity <sup>2</sup> M       F       Imm³       NS <sup>4</sup> M       M       F         Peak adult GCN count for this pond       Peak adult GCN count for this pond       O	P6f       Torch         AC; JW; CH       Torch power:       >= 1,000,000 cp         Dry - survey not possible       GCN       Smooth newt       Palmate newt       Smooth/Pal         Sex/life stage:       M       F       Imm³       NS <sup>4</sup> M       M       F       Imm         (°C)       Veg cover <sup>1</sup> Turbidity <sup>2</sup> M       F       Imm³       NS <sup>4</sup> M       M       F       Imm         0 </td <td>P6f       Torch         AC; JW; CH       Torch power:       &gt;= 1,000,000 cp         Dry - survey not possible       GCN       Smooth newt       Palmate newt       Smooth/Palmate         Sex/life stage:       M       F       Imm³       NS<sup>4</sup>       M       M       F       Imm       NS         (°C)       Veg cover<sup>1</sup>       Turbidity<sup>2</sup>       M       F       Imm³       NS<sup>4</sup>       M       M       F       Imm       NS         0       &lt;</td> <td>P6f     Image: P6f     Image: P6f</td>	P6f       Torch         AC; JW; CH       Torch power:       >= 1,000,000 cp         Dry - survey not possible       GCN       Smooth newt       Palmate newt       Smooth/Palmate         Sex/life stage:       M       F       Imm³       NS <sup>4</sup> M       M       F       Imm       NS         (°C)       Veg cover <sup>1</sup> Turbidity <sup>2</sup> M       F       Imm³       NS <sup>4</sup> M       M       F       Imm       NS         0       <	P6f     Image: P6f

Pond re	eference	P6	g					Torch					Egg search	Larvae
Surv	veyors	AC; JV	N; CH		Torch	power:			>= 1,000	,000 cp	C			
Con	Comments Common toad; Off-site beyond dispersal barrier, no further survey required			G	СN		Smooth newt	Palmate newt	Smoo	oth/Pal	mate	GCN eggs found?	GCN larvae found? (any method)	
	Sex	x/life stage:			Ц	1	NIC4			E	Image	NIC		
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	1~1	Г	imm <sup>*</sup>	142	1~1	/~/	Г		143		
19.03.2020	5	4	1	-	-	-	-	5	-	5	-	-	No	No
24.03.2020	7	4	1	11	3	-	-	1	-	4	-	-	No	No
						Pec	ık adul	t GCN cou	nt for this p	ond				
							14							

Pond reference	Póh		Torch			Egg search	Larvae
Surveyors	AC; JW; CH	Torch power:		>= 1,000	,000 ср		
Comments	Common toad, frogspawn; Off- site beyond dispersal barrier, no further survey required	GCN	Smooth newt	Palmate newt	Smooth/Palmate	GCN eggs found?	GCN larvae found? (any method)

	Sex	<pre> k/life stage:</pre>			_	. 3				-	1			memouj
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	Μ	F	Imm°	NS₹	Μ	Μ	F	Imm	N2		
19.03.2020	5	5	1	1	2	-	-	-	-	1	-	-	No	No
24.03.2020	4.03.2020 7 5 1				2	-	-	-	-	-	-	-	No	No
				Peak adult GCN count for this pond										

Pond r	eference	Pć	Si					Torch					Egg search	Larvae
Sur	veyors	AC; J\	N; CH		Torch	power:			>= 1,000	,000 cp	2			
Con	nments	Common toad; dispersal barrier, requ	Off-site beyond no further survey ired		G	CN		Smooth newt	Palmate newt	Smoo	oth/Pal	mate	GCN eggs found?	GCN larvae found? (any method)
	Sex	k/life stage:			Б	1	NIC4			-	Incom	NIC		momody
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	1~1	Г	Imm <sup>2</sup>	N2	/~\	171	Г		143		
19.03.2020	5	3	0	-	-	-	-	2	-	-	-	-	No	No
24.03.2020	7	3	1	-	1	-	-	-	-	-	-	-	No	No
			Peak adult GCN count for this pond											
								1						

Pond r	eference	Pé	ij					Torch					Egg search	Larvae
Sur	veyors	AC; JV	N; CH		Torch	power:			>= 1,000	,000 cp	)			
Con	nments	Common toad; dispersal barrier, requ	Off-site beyond no further survey ired		G	CN		Smooth newt	Palmate newt	Smoo	oth/Pal	mate	GCN eggs found?	GCN larvae found? (any
	Sex	x/life stage:	-	•	E	1	NIC4			Б	Imm	NIS		method)
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	1~1	Г	imm <sup>*</sup>	142	/~1	171	Г	1111111	143		
19.03.2020	5	3	1	-	-	-	-	-	-	-	-	-	No	No
24.03.2020	7	3	1	-	1	-	-	-	-	-	-	-	No	No
						Peo	ık adul	t GCN cou	nt for this po	ond				
								1						

Pond reference	Pók		Torch		Egg search	Larvae
Surveyors	AC; JW; CH	Torch power:	>= 1,000	,000 ср		
	Common toad: Off-site beyond					GCN

Con	nments	dispersal barrier, i requ	no further survey ired		G	CN		Smooth newt	Palmate newt	Smoo	oth/Pal	mate	GCN eggs found?	larvae found? (any
Deter	Sex	<pre>k/life stage:</pre>	<b>T</b>	М	F	Imm <sup>3</sup>	NS <sup>4</sup>	М	М	F	Imm	NS		method)
Dale:	All lemp (°C)	veg cover	Turbidity-											
19.03.2020	5	0	5	-	-	-	-	1	-	-	-	-	No	No
24.03.2020	7	3	4	1	-	-	6	-	23	-	-	No	No	
				5										

Pond re	eference	P	9					Torch					Egg search	Larvae
Surv	veyors	AC; JV	N; CH		Torch	power:			>= 1,000	,000 cp	)			
Con	nments	Commo	n toad		G	CN		Smooth newt	Palmate newt	Smoo	oth/Palı	mate	GCN eggs found?	GCN larvae found? (anv
	Sex	/life stage:		M	F	Imm <sup>3</sup>	NIC <sup>4</sup>	NA.	NA.	F	Imm	NIS		method)
Date:	Air temp (°C)	Veg cover <sup>1</sup>	Turbidity <sup>2</sup>	171	I	Imm	142	1~1	171	I		143		,
19.03.2020	4	4	3	1	-	-	-	-	-	-	-	-	No	No
24.03.2020	5	4	4	-	-	-	-	-	-	-	-	-	Yes	No
27.04.2020	8	4	4	4	7	-	-	-	-	-	-	-	No	No
30.04.2020	7	4	4	-	-	-	-	-	-	-	-	-	No	No
14.05.2020	12	4	4	-	-	-	-	-	-	-	-	-	No	No
19.05.2020	11	4	4	-	-	-	_	_	-	-	-	-	No	No
			Peak adult GCN count for this pond											

<sup>1</sup> Vegetation cover score (0 - 5): 0 = no vegetation obscuring survey; 5 = water completely obscured by vegetation <sup>2</sup> Turbidity score (0 - 5): 0 = completely clear; 5 = very turbid

<sup>3</sup> Imm - Immature/Juvenile

<sup>₄</sup> NS - Sex not specified



			0	100	200	300 40	)0 500metre	S
Dixies Barns, High Street, Asbwell Hartfordsbire SG7 5NT	Project	South West Milton Keynes	Date	March	า 2020	Drawing Nc	). CSA/4857/118	i
t 01462 743647	Drawing Title	Figure 7g - Amphibian Survey Plan	Scale	Refer t	to scale	Rev	-	
environmental e ashwell@csaenvironmental.co.uk w csaenvironmental.co.uk	Client	Taylor Wimpey UK Ltd, William Davis Ltd, Hallam Land Management Ltd, Bellcross Homes and Connolly Homes	Drawn	AC		Checked	JW	

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# Ecology Addendum Appendix E

Biodiversity Net Gain (BNG) Calculation

# The Biodiversity Metric 2.0 - Calculation Tool Start page

	Project details	Instructions								
Planning authority:	Aylesbury Vale District Council / Milton Keynes Council									
Project name:	South West Milton Keynes									
Applicant:	Various									
Application type:	Outline Planning Application	Main monu								
Planning application reference:	Planning application reference:									
Assessor:	Jamie Woollam									
Reviewer:	Alexandra Cole									
Revision:										
Assessment date:	26/03/2020	Results								
Planning authority reviewer:	ТВС									
	Cell style conventions									
	Enter data									
	Automatic lookup Result	Reset view								

South West Milton Keynes

Headline Results

Return to results menu

	Habitat units	339.28
On-site baseline	Hedgerow units	74.84
	River units	0.00
On-site post-intervention	Habitat units	383.93
(Including habitat retention creation enhancement &	Hedgerow units	99.43
(melading habitat recention) ereation) enhancement a	River units	0.00
	Habitat units	0.00
Off-site baseline	Hedgerow units	0.00
	River units	0.00
Off_site post_intervention	Habitat units	0.00
On-site post-intervention	Hedgerow units	0.00
(Including habitat retention, creation, enhancement &	River units	0.00
Total net unit change	Habitat units	44.66
i otal net unit change	Hedgerow units	24.59
(including all on-site & off-site habitat retention/creation)	River units	0.00
Total net % change	Habitat units	13.16%
	Hedgerow units	32.85%
	<b>D</b> <sup>1</sup>	0.000/

0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 41.61 0.00 0.00 0.00
0.00 0.00 0.00 2.48 0.00 2.48 0.00 0.00 0.00
0.00 0.
26.75 0.00 -26.73 0.00 0.00 0.00
site Units Proje- nit delivered wide u nge off-site chang 30.18 0.00 -230.1
39.46 0.00 239.4
6.04         0.00         6.04           80.91         0.00         80.91           0.00         0.00         0.00
0.00 0.
0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 4.55 0.00 4.55
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 147.9 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00
nit delivered wide u nge off-site chang 0.00 0.00 0.00
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0.00
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0.00 0.
00 0.00 0.00 63 0.00 20.63
x0         0.00         0.00           x3         0.00         2.69           x0         0.00         0.00
0.00 0.00
0.00 0.00 0.00 0.00
.00 0.00 0.00 0.00 0.00 0.00 0.00
2.30 0.00 2.30
Dn Site Units Projec Unit delivered Unit Change off-site

Low Trading Acceptible Trading Down Lability High Distinctiveness (Units Cumulative Trading Error Overall Trading Acceptable

0.00

Low cumulative offset plus high and medium surplus, this number must be a positive when offsite compensation is factored in 364.

 compensation intertored in
 265.07

 Medium Trading Acceptable
 Trading Down Liability Medium DisinchnenesyUnits
 0.00

 Not Like For Like or Better/Units
 0.00
 0.00

 Cumulative Trading Error
 0.00
 0.00

Medium cumulative offset plus high surplus, this number must be a positive when offsite compensation is factored in

High Trading Acceptable Trading Down Liability High Distinctiveness/Units Not Like For Like/Units

0.00

cumulative positive - this sums only the positive values in order for them to be utilised to offset any deficit in lower distinctiveness bands 25.61

Any rows highlighted in red within this table highlight habit compensation in order to deliver the required number o

Overall Trading Acceptable

group

Group

Existing area lost

4-1	Site Habitat Base	line																									
	Condense / Show Columns	Condense / Show Rows																									
	Main Menu	Instructions																									
Ī		Habitats and areas		Habitat disti	tinctiveness	Habitat	t condition		Ecological connectivi	ity	Strategi	c significance		Currente d'action to address	Ecological baseline			Re	tention cate	gory biodiv	ersity value			Bespoke compensation	Comr	ents	
Ref	Broad Habitat	Habitat type	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	habitat losses	Total habitat units	Ar	rea Area ined enhand	Area a succession	Baseline units retained	Baseline units enhance	Baseline units succession	Area lost	Units lost	agreed for unacceptable losses	Assessor comments	Reviewer comments	
1	Cropland	Cropland - Cereal crops	115.09	Low	2	N/A - Agricultural	1	N/A	Assessment not appropriate	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required	230.18				0.00	0.00	0.00	115.09	230.18		Arable fields F1, F3, F6-F11, and F13- to F17. Condition fixed at 'n/a-agricultural'		
2	Grassland	Grassland - Modified grassland	10.2	Low	2	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required	40.80				0.00	0.00	0.00	10.20	40.80		Poor SI fields F2, F4, F5, F12 (Poor SI translates as modified grassland as set out in translation tool). Condition moderate, given semi-improved nature, the dominance of coarse grasses and relatively low abundance of herbs.		
3	Urban	Urban - Developed land; sealed surface	1.16	V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00				0.00	0.00	0.00	1.16	0.00		Existing roads, buildings etc. Condition fixed as 'n/a- other'		
4	Woodland and forest	Woodland and forest - Other woodland; broadleaved	1.02	Medium	4	Moderate	2	Low	Unconnected habitat	1	Within area formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required	9.38	1.0	02		9.38	0.00	0.00	0.00	0.00		Woodland W1, W2 inside of Waldon Chase BOA. Condition moderate, given the mix of ornamental and native species, with reasonable structural diversity		
5	Woodland and forest	Woodland and forest - Other woodland; broadleaved	0.38	Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	3.34				0.00	0.00	0.00	0.38	3.34		Woodland W3 outside of Waldon Chase BOA. Condition moderate, given the mix of ornamental and native species, with reasonable structural diversity		
6	Woodland and forest	Woodland and forest - Lowland mixed deciduous woodland	1.39	High	6	Fairly Good	2.5	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same habitat required	22.94	1.	32		21.78	0.00	0.00	0.07	1.16		Woodland W4a+b and W5. Condition 'fairy good', reduced from 'good' given the presence of occasional non-native invasive species (W4b) or the limited groundflora (W5)		
7	Lakes	Lakes - Ponds (Non- Priority Habitat)	0.07	High	6	Fairly Poor	1.5	Low	Unconnected habitat	1	Within area formally identified in local strategy	High strategic significance	1.15	Same habitat required	0.72	0.0	07		0.72	0.00	0.00	0.00	0.00		Pond P1a and P1b within Waldon Chase BOA. Condition 'fairly poor' given they dry frequently with limited aquatic plants.		
8	Lakes	Lakes - Ponds (Priority Habitat)	0.03	High	6	Moderate	2	Low	Unconnected habitat	1	Within area formally identified in local strategy	High strategic significance	1.15	Same habitat required	0.41	0.0	03		0.41	0.00	0.00	0.00	0.00		Pond P1c (GCN present) within Waldon Chase BOA		
9	Lakes	Lakes - Ponds (Non- Priority Habitat)	0.06	High	6	Fairly Poor	1.5	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same habitat required	0.59	0.1	06		0.59	0.00	0.00	0.00	0.00		Pond P2 Condition 'fairly poor' given they dry frequently with limited aquatic plants and heavy shading.		
10	Cropland	Cropland - Cereal crops	15.45	Low	2	N/A - Agricultural	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required	30.90			15.45	0.00	0.00	30.90	0.00	0.00		Fields within which woodland and copse planting will occur.		
11																											
12			-	'																							
13			-	<u> </u>														_									
14		Total site area ha	144.05											Total Cite hosping	220.29	2	50 0.00	15.45	22.00	0.00	20.00	136.00	278 40				
	L	rotarsite area na	194.85	4 1										Total site baseline	337.28	2.	.50 0.00	25.45	32.90	0.00	30.30	120.90	273.98				

South West Milton Keynes

South West Milton Keynes A-2 Site Habitat Creation Condense / Show Columns Main Menu	Condense / Show	r Rows																					
						Post deve	elopment/ post interventi	on habitats								1							
Proposed habitat	Area	Distinctiveness	Score	Condition	Score	Ecological	Ecological connectivity	Connectivity	Strategic sign	ificance Strategic	Strategic	Temporal m	ultiplier Time to target	Difficulty Difficulty of	multipliers Difficulty of	Habitat units	Con	mments					
	(hectares)					connectivity	Connectivity	multiplier	Strategic significance	significance	position multiplier	condition/years	multiplier	creation category	creation multiplier	delivered	Assessor comments	Reviewer comments					
Urban - Developed land; sealed surrace	32.34	V.Low	0	N/A - Other	0	Low	Unconnected habitat	1	strategy/ no local strategy	Significance	1	0	1.000	Low	1	0.00	Condition fixed at 'n/a-other'.						
Orban - vegetateo garoen	21.56	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0.965	Low	1	41.61	Condition assumed 'poor' with no control over habitat/management						
Urban - Developed land; sealed surface	4.94	V.Low	0	N/A - Other	0	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0	1.000	Low	1	0.00	Other hardstanding (including infrastucture, employment, local centre). Condition fixed at 'n/a-other'.						
Urban - Amenity grassland	18.68	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0.965	Low	1	36.05	Formal open space areas. Condition assumed 'poor' due to heavy recreational uses.						
Urban - Amenity grassland	5.71	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0.965	Low	1	11.02	Sports pitches (formal grassland). Condition assumed 'poor' due to heavy recreational uses.						
Urban - Allotments	1.18	Medium	4	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0.965	Low	1	4.55	Allotments. Condition assumed 'poor' with no control over habitat/management.						
Cropland - Traditional orchards	0.39	High	6	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	20	0.490	Low	1	2.30	Community orchard planted with traditional local species secured through EMEMP provisions.						
Lakes - Ponds (Priority Habitat)	0.29	High	6	Fairly Good	2.5	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	7	0.779	Medium	0.67	2.27	Wildlife ponds. Assumed 'moderate' condition given potential urbanising effects of development. Potential for significant enhancement through EMEMP provisions.						
Grassland - Other neutral grassland	18.67	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	10	0.700	Low	1	104.59	Long/wildflower grassland in informal open spaces. Potential for significant enhancement through EMEMP provisions.						
Grassland - Modified grassland	7.28	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0.965	Low	1	14.05	'Longer grassland' (along grid road reservation). Assumed poor due to intensive management requirements. Potential for significant enhancement through EMEMP provisions.						
Grassland - Other neutral grassland	7.74	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	10	0.700	Low	1	43.36	SuDS basins (includes dry basins sown with chalk grassland, wet basins (incl. black poplar planting) with wet grassland and 10 micropools). Assumed other neutral to cover these elements, in moderate condition, given proposed habitat creation (above) and requirement to receive occasional inundation. Potential for significant enhancement through EMEMP provisions.						
Urban - Street Tree	1.62	Low	2	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	27	0.382	Low	1	2.48	Estimated provision of 400 street trees within develiopment parcels. Assumed 'medium' tree category. Condition fixed at 'moderate'.						
Urban - Developed land; sealed surface	4.06	V.Low	0	N/A - Other	0	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0	1.000	Low	1	0.00	Built environment of eductaion (8.12ha), assuming 50% hard surface						
Urban - Amenity grassland	4.06	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0.965	Low	1	7.84	Landscaped areas of eductaion (8.12ha), assuming 50% hard surface, including playing fields						
Totals	126.90					1									Total Units	270.12		1					

South W	est Milton Keynes														
A-4 Sit	e Habitat Succession														
Condens	se / Show Columns Condense / Show Rows Aain Menu Instructions														
	Ī			Post development/ post inte	ervention	habitats									
[	Baseline habitats		Change in distinctive	eness and condition				cological connectivit	Strategic significance	Temporal multiplier	Difficulty		Comments		
Baseline ref	Baseline habitat	Proposed habitat	Distinctiveness change	Condition change	Area ha	Distinctiveness	Condition	Ecological connectivity score	Strategic significance	Time to target condition/years	Difficulty of creation category	Habitat units delivered	Assessor comments	Reviewer comments	
10	Cropland - Cereal crops	Woodland and forest - Other woodland; mixed	Low - Medium	Lower Distinctiveness Habitat - Good	15.45	Medium	Good	Low	Location ecologically desirable but not in local strategy	32+	Medium	80.91	Woodland and copse planting. Assumed 'moderate' condition. Potential for enhancement through EMEMP provisions.		
									1						
			Total site area	15.45							80.91				

South	West Milton	i Keynes															
B-1 S	ite Hedge	Baseline															
	Condense / Sho	ow Columns Condense / Show Rows															
	Main Me																
-				Habitat							1			1	Ecological		
		UK Habitats - existing habitats	I	distinctiven	ess	Habitat condition			Ecological connectivity		Strategic sign	ificance	Strategic		baseline Total		Re
Baseline ref	Hedge number	Hedgerow type	length KM	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	position multiplier	Suggested action to address habitat losses	hedgerow units	retained	Le
1	H1	Native Hedgerow with trees	0.55	Low	2	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	band or better	3.63		
2	H2	Native Hedgerow with trees	0.39	Low	2	Moderate	2	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.716		c
3	H3	Native Species Rich Hedgerow	0.18	Medium	4	Moderate	2	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	1.584		c
4	H4	Native Hedgerow with trees	0.03	Low	2	Moderate	2	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	0.132		c
5	H5	Native Hedgerow with trees	0.05	Low	2	Moderate	2	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	0.22		c
6	H6	Native Species Rich Hedgerow	0.24	Medium	4	Moderate	2	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	2.112		
7	H7	Native Hedgerow with trees	0.22	Low	2	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local	Low Strategic	1	Same distinctiveness	1.452		
8	H8	Native Hedgerow with trees - Associated with bank or ditch	0.09	Medium	4	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local	Low Strategic	1	Like for like or better	1.188		
9	H9	Native Species Rich Hedgerow with trees - Associated with bank or ditch	0.22	High	6	Moderate	2	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local	Low Strategic	1	Like for like	2.904		
10	H10	Native Hedgerow with trees	0.55	Low	2	Moderate	2	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local	Low Strategic	1	Same distinctiveness	2.42		-
11	H11	Nativo Horizorow	0.23	Low	2	Good	3	Medium	Moderately connected habitat	11	strategy Area/compensation not in local strategy/ no local	Significance Low Strategic	1	Same distinctiveness	1 518		-
12	412	Notive Hadgarow with trans	0.13	Low	2	Good	2	Modium	Moderately connected habitat		strategy Area/compensation not in local strategy/ no local	Significance Low Strategic	-	band or better Same distinctiveness	0.702		
	1142	Netto Hadronia	0.12	Low	-	Good	2	h fa dium	Moderately connected habitat		strategy Area/compensation not in local strategy/ no local	Significance Low Strategic	-	band or better Same distinctiveness	0.752		-
15	H13	Native neogerow	0.2	LOW	2	Good	3	Medium	Moderately connected habital	1.1	strategy Area/compensation not in local strategy/ no local	Significance Low Strategic	1	band or better Same distinctiveness	1.32		_
14	H14	Native Hedgerow with trees	0.23	LOW	2	Good	3	Medium	Moderately connected habitat	1.1	strategy Area/compensation not in local strategy/ no local	Significance Low Strategic	1	band or better Same distinctiveness	1.518		
15	H15	Native Hedgerow with trees	0.2	Low	2	Moderate	2	Medium	Moderately connected habitat	1.1	strategy Area/compensation not in local strategy/ no local	Significance	1	band or better	0.88		
16	H16	Native Hedgerow	0.19	Low	2	Moderate	2	Medium	Moderately connected habitat	t 1.1	strategy	Significance	1	band or better	0.836		
17	H17	Native Hedgerow with trees	0.22	Low	2	Good	3	Medium	Moderately connected habitat	t 1.1	strategy	Significance	1	band or better	1.452		
18	H18	Native Species Rich Hedgerow with trees	0.3	Medium	4	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	3.96	0.26	
19	H19	Native Species Rich Hedgerow with trees	0.2	Medium	4	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	2.64	0.2	
20	H20	Native Hedgerow	0.21	Low	2	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	band or better	1.386		c
21	H21	Native Hedgerow with trees	0.44	Low	2	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	2.904		0
22	H22	Native Species Rich Hedgerow with trees	0.23	Medium	4	Moderate	2	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	2.024		C
23	H23	Native Hedgerow with trees	0.18	Low	2	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.188		c
24	H24	Native Hedgerow	0.25	Low	2	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.65		
25	H25	Native Hedgerow	0.39	Low	2	Moderate	2	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.716		
26	H26	Native Species Rich Hedgerow	0.11	Medium	4	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	1.452	0.11	
27	H27	Native Hedgerow with trees	0.79	Low	2	Moderate	2	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	3.476		c
28	H28	Native Hedgerow with trees	0.36	Low	2	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	2.376		c
29	H29	Native Species Rich Hedgerow with trees	0.29	Medium	4	Moderate	2	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	2.552		0
30	H30	Native Hedgerow with trees	0.27	Low	2	Good	3	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.782		0
31	H31	Native Species Rich Hedgerow with trees	0.36	Medium	4	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	4.752	0.29	+
32	H32	Native Hedgerow with trees	0.44	Low	2	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness	2.904		0
33	Н33	Native Hedgerow with trees - Associated with bank or ditch	0.21	Medium	4	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic	1	Like for like or better	2.772		0
34	H34	Native Hedgerow	0.11	Low	2	Moderate	2	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic	1	Same distinctiveness	0.484		
35	H35	Native Hedgerow with trees - Associated with bank or ditch	0.3	Medium	4	Good	3	Medium	Moderately connected habitat	t 1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic	1	Like for like or better	3.96		
36	H36	Native Species Rich Hedgerow	0.41	Medium	4	Moderate	2	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local	Low Strategic	1	Like for like or better	3.608		
37	H37	Native Hedgerow with trees	0.24	Low	2	Good	3	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local	Low Strategic	1	Same distinctiveness	1.584		
38	-	-	1								strategy	Significance		band or better			+

	Retention	category bio	odiversity va	lue		Comments								
Lengt retaine	h Length ed enhanced	Units retained	Units enhanced	Length lost	Units lost	Assessor comments	Reviewer comments							
	0.5	0	3.3	0.05	0.33	Enhance to species-rich hedgerow through additional planting								
	0.39	0	1.716	0	0	Enhance condition Moderate>Good through management								
	0.18	0	1.584	0	0	Enhance condition Moderate>Good through management								
	0.03	0	0.132	0	0	Enhance condition Moderate>Good through management								
	0.05	0	0.22	0	0	Enhance condition Moderate>Good through management								
	0.24	0	2.112	0	0	Enhance condition Moderate>Good through management								
	0.2	0	1.32	0.02	0.132	Enhance to species-rich hedgerow through additional planting								
	0.05	0	0.66	0.04	0.528	Enhance to species-rich hedgerow through additional planting								
	0.21	0	2.772	0.01	0.132	Enhance condition Moderate>Good through management								
	0.27	0	1.188	0.28	1.232	Enhance condition Moderate>Good through management								
	0.21	0	1.386	0.02	0.132	Ennance to species-rich hedgerow through additional planting								
	0.12	0	0.792	0	0	Enhance to species-rich hedgerow through additional planting								
	0.2	0	1.32	0	0	Enhance to species-rich hedgerow through additional planting								
	0.23	0	1.518	0	0	Enhance to species-rich hedgerow through additional planting								
	0.16	0	0.704	0.04	0.176	Enhance condition Moderate>Good through management								
	0.16	0	0.704	0.03	0.132	Enhance condition Moderate>Good through management								
	0.22	0	1.452	0	0	Enhance to species-rich hedgerow through additional planting								
0.26		3.432	0	0.04	0.528									
0.2		2.64	0	0	0									
	0.17	0	1.122	0.04	0.264	Enhance to species-rich hedgerow through additional planting								
	0.44	0	2.904	0	0	Enhance to species-rich hedgerow through additional planting								
	0.23	0	2.024	0	0	Enhance condition Moderate>Good through management								
	0.09	0	0.594	0.09	0.594	Enhance to species-rich hedgerow through additional planting								
	0.2	0	1.32	0.05	0.33	Enhance to species-rich hedgerow through additional planting								
	0.3	0	1.32	0.09	0.396	Enhance condition Moderate>Good through management								
0.11		1.452	0	0	0									
	0.74	0	3.256	0.05	0.22	Enhance condition Moderate>Good through management								
	0.34	0	2.244	0.02	0.132	Enhance to species-rich hedgerow through additional planting								
	0.21	0	1.848	0.08	0.704	Enhance condition Moderate>Good through management								
	0.23	0	1.518	0.04	0.264	Enhance to species-rich hedgerow through additional planting								
0.29		3.828	0	0.07	0.924									
	0.39	0	2.574	0.05	0.33	Enhance to species-rich hedgerow through additional planting								
	0.17	0	2.244	0.04	0.528	Enhance to species-rich hedgerow through additional planting								
	0.11	0	0.484	0	0	Enhance condition Moderate>Good through management								
	0.28	0	3.696	0.02	0.264	Enhance to species-rich hedgerow through additional planting								
	0.41	0	3.608	0	0	Enhance condition Moderate>Good through management								
	0.24	0	1.584	0	0	Enhance to species-rich hedgerow through additional								

		South West N	1ilton Keynes																	
B-2 Si	te Hedg	e Creation																		
Condense / Show Columns Condense / Show Rows																				
	Mair	n Menu	Instructions									Multipliers								
			\$	-								Spatial quality								
		Proposed habitats			Habitat Habitat condition			Ecological connectivity			Strategic significance			Temporal n	Difficulty of	Medae unite	Comments			
Baseline ref	New hedge number		Habitat type	Length km	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier	multiplier	delivered	Assessor comments	Reviewer comments
1		Nativ	e Species Rich Hedgerow	0.7	Medium	4	Good	з	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	10	0.700	0.67	3.94	New hedgerow along grid road reserve	
2 Native Species Rich Hedgerow			0.1	Medium	4	Good	3	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	10	0.700	0.67	0.56 New hedgerow west of allotments			
3	3 Na		Native Hedgerow	6	Low	2	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	5	0.837	1	20.08	New native hedgerows around development parcels (conservative estimate)	
4 5																				

#### South West Milton Keynes

Condense/Show Columns Condense/Show Rows

B-3 Site Hedge Enhancement

_				Post development/ post intervention						-				
Î	Baseline Habitats		Change in distincition	reness and condition					Strategic significance	Temporal multiplier	Difficulty		Com	ments
Baseline ref	Baseline habitat	Proposed	Distinctiveness movement	Condition movement	Length KM	Distinctiveness	Condition	Ecological connectivity	Strategic significance	Time to target condition/years	Difficulty of enhancement Category	Hedge units delivered	Assessor comments	Reviewer comments
1	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.5	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	3.99	Enhance to species-rich hedgerow through additional planting	
2	Native Hedgerow with trees	Native Hedgerow with trees	Low - Low	Moderate - Good	0.39	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Low	1.94	Enhance condition Moderate>Good through management	
3	Native Species Rich Hedgerow	Native Species Rich Hedgerow	Medium - Medium	Moderate - Good	0.18	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	10	Medium	1.78	Enhance condition Moderate>Good through management	
4	Native Hedgerow with trees	Native Hedgerow with trees	Low - Low	Moderate - Good	0.03	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Low	0.15	Enhance condition Moderate>Good through management	
5	Native Hedgerow with trees	Native Hedgerow with trees	Low - Low	Moderate - Good	0.05	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Low	0.25	Enhance condition Moderate>Good through management	
6	Native Species Rich Hedgerow	Native Species Rich Hedgerow	Medium - Medium	Moderate - Good	0.24	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	10	Medium	2.37	Enhance condition Moderate>Good through management	
7	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.2	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	1.59	Enhance to species-rich hedgerow through additional planting	
8	Native Hedgerow with trees - Associated with bank or ditch	Native Species Rich Hedgerow with trees - Associated with bank or ditch	Medium - High	Lower Distinctiveness Habitat - Good	0.05	High	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	0.70	Enhance to species-rich hedgerow through additional planting	
9	Native Species Rich Hedgerow with trees - Associated with bank or ditch	Native Species Rich Hedgerow with trees - Associated with bank or ditch	High - High	Moderate - Good	0.21	High	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	2.93	Enhance condition Moderate>Good through management	
10	Native Hedgerow with trees	Native Hedgerow with trees	Low - Low	Moderate - Good	0.27	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Low	1.34	Enhance condition Moderate>Good through management	
11	Native Hedgerow	Native Hedgerow	Low - Low	Error - No enhancement	0.21	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	10	Low	1.26	Enhance to species-rich hedgerow through additional planting	
12	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.12	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	0.96	Enhance to species-rich hedgerow through additional planting	
13	Native Hedgerow	Native Species Rich Hedgerow	Low - Medium	Lower Distinctiveness Habitat - Good	0.2	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	10	Medium	1.76	Enhance to species-rich hedgerow through additional planting	
14	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.23	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	1.83	Enhance to species-rich hedgerow through additional planting	
15	Native Hedgerow with trees	Native Hedgerow with trees	Low - Low	Moderate - Good	0.16	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Low	0.80	Enhance condition Moderate>Good through management	
16	Native Hedgerow	Native Hedgerow	Low - Low	Moderate - Good	0.16	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	10	Low	0.86	Enhance condition Moderate>Good through management	
17	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.22	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	1.75	Enhance to species-rich hedgerow through additional planting	
20	Native Hedgerow	Native Species Rich Hedgerow	Low - Medium	Lower Distinctiveness Habitat - Good	0.17	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	10	Medium	1.50	Enhance to species-rich hedgerow through additional planting	
21	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.44	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	3.51	Enhance to species-rich hedgerow through additional planting	
22	Native Species Rich Hedgerow with trees	Native Species Rich Hedgerow with trees	Medium - Medium	Moderate - Good	0.23	Medium	Good	Low	no local strategy	20	Medium	2.14	management	
23	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.09	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	0.72	Enhance to species-rich hedgerow through additional planting	
24	Native Hedgerow	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.2	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	1.59	Enhance to species-rich hedgerow through additional planting	
25	Native Hedgerow	Native Hedgerow	Low - Low	Moderate - Good	0.3	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	10	Low	1.62	Enhance condition Moderate>Good through management	
27	Native Hedgerow with trees	Native Hedgerow with trees	Low - Low	Moderate - Good	0.74	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Low	3.69	Enhance condition Moderate>Good through management	
28	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.34	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	2.71	Enhance to species-rich hedgerow through additional planting	
29	Native Species Rich Hedgerow with trees	Native Species Rich Hedgerow with trees	Medium - Medium	Moderate - Good	0.21	Medium	Good	Low	no local strategy	20	Medium	1.96	management	
30	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.23	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	1.83	Enhance to species-rich hedgerow through additional planting	
32	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.39	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	3.11	Enhance to species-rich hedgerow through additional planting	
33	Native Hedgerow with trees - Associated with bank or ditch	Native Species Rich Hedgerow with trees - Associated with bank or ditch	Medium - High	Lower Distinctiveness Habitat - Good	0.17	High	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	2.38	Enhance to species-rich hedgerow through additional planting	
34	Native Hedgerow	Native Hedgerow	Low - Low	Moderate - Good	0.11	Low	Good	Low	Area/compensation not in local strategy/ no local strategy	10	Low	0.59	Enhance condition Moderate>Good through management	
35	Native Hedgerow with trees - Associated with bank or ditch	Native Species Rich Hedgerow with trees - Associated with bank or ditch	Medium - High	Lower Distinctiveness Habitat - Good	0.28	High	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	3.91	Enhance to species-rich hedgerow through additional planting	
36	Native Species Rich Hedgerow	Native Species Rich Hedgerow	Medium - Medium	Moderate - Good	0.41	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	10	Medium	4.05	Enhance condition Moderate>Good through management	
37	Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.24	Medium	Good	Low	Area/compensation not in local strategy/ no local strategy	20	Medium	1.91	Enhance to species-rich hedgerow through additional planting	