WOODLAND AND HEDGEROW SURVEY REPORT



1.0 **GENERAL DETAILS**

Site Name	Harras Moor					
Job Number	5060.Eco.HarrasMoor	Doc. Ref	5060.Eco.HarrasMoor.008			
Site Location	Whitehaven, West Cumbria					
Date(s)	17 th and 18 th April 2018					
Surveyor(s)	Lynsey Crellin (FISC Level 5)					
Survey	None, the survey was initially	conducted during the re	commended survey period			
Constraints	for Phase 1 habitat surveys.					
Methods	Hedgerow survey relating to the survey according to JNCC National Woodland 2004					
Drawing Ref:	G5060.Eco.HarrasMoorEcoan	dArb.004				

	Written	Checked	Authorised
Initial	LAC	FBH	FBH

2.0 **HEDGEROW SURVEY RESULTS**

Hedgerow 1

Target Note

Old, defunct hedge along site boundary with wall/bank at base and rabbit activity.

Crataegus monogyna	Hawthorn	D
Silene dioica	Red Campion	Α
Hedera helix	lvy	F
Ranunculus repens	Creeping Buttercup	F
Rubus fruticosus agg.	Bramble	F
Digitalis purpurea	Foxglove	0
Dryopteris dilatata	Broad buckler-fern	0
Ficaria verna	Lesser Celandine	0
Urtica dioica	Nettle	0
llex aquifolium	Holly	R
Dryopteris filix-mas	Male fern	R
Rumex acetosa	Common Sorrel	R
Sambucus nigra	Elder	R





Hedgerow Assessment

Does the hedge have the appearance of being over 30 years old? Does the hedge run alongside a bridleway, footpath or road used as a public path or a byway open to all traffic? Protected species noted? (WCA					
Sch 1, 5, 8: RDB birds, vascular plants/insects/other)		i Mi			
Further assessment (30m sampling) required and undertaken?	Y				
Features and Connections		species in the 200m species hedgerow hav	es present in 30m s v Regulations 1997) central 30m have be in the central 30m si e been recorded. Fo central stretch of 30i orded.	en recorded. For tretches of each I r hedgerows >20	s 30-100m in length, hedgerows 100- half of the 0m, species
Hedge length (m)	120	Sample 1	Sample 2	Sample 3	Schedule 2 species present
Wall/bank along at least half its length?	Y	Holly	Hawthorn		Broad buckler fern
Average of at least one standard tree per 50m?	N	Hawthorn	English oak		Male Fern
3+ woodland ground flora species (listed on Sch. 2 of the Hedgerow Regulations) within 1m?	N				
Ditch along at least half of the hedgerow?	N				
Parallel hedge within 15m of the hedgerow?	N				
Gaps less than 10% of hedgerow length?	Y				
Connection (within 10m) with another hedgerow?	N				
Connection (within 10m) with a pond?	N				
Connection (within 10m) broadleaved woodland?	N				

Does this hedge meet the wildlife and countryside criteria for Importance?	Hedge contains an average of 2 woody species and has only 2 associated features
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Hedgerow 2

Target Note

Defunct hawthorn hedge along residential garden boundaries. Cannot be important in accordance with the Hedgerow Regulations as it forms 'the curtilage of a dwelling house'.

Crataegus monogyna Hawthorn D

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Hedgerow 3

Target Note

Old, heavily defunct hedgerow in field with wall/bank at base. Numerous rabbit burrows and signs.

Crataegus monogyna Hawthorn**

D

Hedgerow Assessment

Does the hedge have the appearance of being over 30 years old? Does the hedge run alongside a bridleway, footpath or road used as a public path or a byway open to all traffic? Protected species noted? (WCA Sch 1, 5, 8: RDB birds, vascular plants/insects/other) Further assessment (30m sampling) required and undertaken? Woody species present in 30m samples (listed on Schedule 3 of the Hedgerow Regulations 1997) - For hedgerows 30-100m in length, species in the central 30m have been recorded. For hedgerows 100-200m species in the central 30m striches of each half of the hedgerow have been recorded. For hedgerows 200m, species present in the central 30m striches of each half of the hedgerow have been recorded. For hedgerows 200m, species present in the central 30m striches of each half of the hedgerow have been recorded. Sample 3 Schedule 2 spresent in the central stretch of 30m within each third of the hedgerow have been recorded. Hedge length (m) 60 Sample 1 Sample 2 Sample 3 Schedule 2 species present in 30m samples (listed on Sch 2 of the Hedgerow have been recorded. For hedgerows 200m, species in the central 30m have been recorded. For hedgerows 100-200m species in the central 30m striches of each half of the hedgerow have been recorded. For hedgerows 200m, species present in the central 30m striches of each half of the hedgerow have been recorded. For hedgerows 200m, species present in the central 30m have been recorded. For hedgerows 200m, species present in the central 30m have been recorded. For hedgerows 200m, species present in the central 30m have been recorded. For hedgerow 200m, species present in the central 30m have been recorded. For hedgerow 200m, species present in 30m samples (listed on Sch 2 of the Hedgerow 200m) and 100 mile recorded.	appearance of being over 30 years old? Does the hedge run alongside a bridleway, footpath or road used as a public path or a byway open to all traffic? Protected species noted? N (WCA Sch 1, 5, 8: RDB birds, vascular plants/insects/other) Further assessment (30m sampling) required and undertaken? Features and Connections Hedge length (m) 60 Wall/bank along at least half its length? Average of at least one standard tree per 50m? 3+ woodland ground flora species (listed on Sch. 2 of the Hedgerow Regulations) within 1m? Ditch along at least half of the hedgerow? Parallel hedge within 15m of the hedgerow?	the Hedgerow species in the c	Regulations 1997	7) - For hedgerows	30-100m in length, hedgerows 100-
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Parallel hedge within 15m of the N hedgerow?	Parallel hedge within 15m of the N hedgerow?		1		
hedgerow?	hedgerow?				
length?					
Connection (within 10m) with N					
another hedgerow?					
Connection (within 10m) with a N	Connection (within 10m) with a N				
pond?					
Connection (within 10m)					
	broadleaved woodland?				

Does this hedge meet the wildlife and	N	Hedge contains an average of 1 woody species and has only 2
countryside criteria for Importance?	IN	associated features.

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Hedgerow 4

Target Note

Most intact hedgerow on site along edge of former playing field. Old, with wall/bank along base and rabbit signs.

Crataegus monogyna	Hawthorn	D
Silene dioica	Red Campion	Α
Juncus effusus	Soft Rush	F
Rubus fruticosus agg.	Bramble	F
Deschampsia cespitosa	Tufted Hair-grass	0
Digitalis purpurea	Foxglove	0
Conopodium majus	Pignut	R
Geum urbanum	Wood Avens	R
Heracleum sphondylium	Hogweed	R
Hypericum androsaemum	Tutsan	R
Malus sylvestris	Crab-apple	R
Polypodium vulgare	Polypody	R
Rosa canina agg.	Dog Rose	R
Sambucus nigra	Elder	R

Hedgerow Assessment

Does the hedge have the appearance of being over 30 years old? Does the hedge run alongside	Y				- 3	
a bridleway, footpath or road used as a public path or a byway open to all traffic?	IN					
Protected species noted? (WCA Sch 1, 5, 8: RDB birds, vascular plants/insects/other)	N	44	Lague			V.
Further assessment (30m sampling) required and undertaken?	Y					
Features and Connections		1	the Hedgerow species in the c 200m species in hedgerow have	entral 30m have b n the central 30m s been recorded. Fo entral stretch of 30	7) - For hedgerow een recorded. Fo stretches of each or hedgerows >20	s 30-100m in length, r hedgerows 100- half of the
Hedge length (m)	9	90	Sample 1	Sample 2	Sample 3	Schedule 2 species present
Wall/bank along at least half its length?		Y	Hawthorn			Pignut
Average of at least one standard tree per 50m?		N	Crab apple			Wood avens
3+ woodland ground flora species (<i>listed on Sch. 2 of the Hedgerow</i> <i>Regulations</i>) within 1m?		Y				Polypody
Ditch along at least half of the hedgerow?		N				
Parallel hedge within 15m of the hedgerow?		N				
Gaps less than 10% of hedgerow length?		Y				
Connection (within 10m) with		N				

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another hedgerow?			
Connection (within 10m) with a pond?	N		
Connection (within 10m) broadleaved woodland?	Y		

Does this hedge meet the wildlife and countryside criteria for Importance?	N	Average of 2 woody species
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3.0 WOODLAND SURVEY RESULTS:

Introduction

A block of ancient woodland named Midgey Wood lies adjacent to the site. In order to gain a better understanding of the vegetation communities represented and the ecological value of the habitat, National Vegetation Classification (NVC) surveys were undertaken. The data generated from these surveys was analysed with Tablefit. An explanation of Tablefit and NVC analysis can be found at the end of this document.

The woodland is sycamore dominated with a dense rhododendron understorey in many places. There were few obvious old trees, most appear semi-mature.

Quadrat 1

irat 1	
Dryopteris dilatata	1
Acer pseudoplatanus, Canopy	10
Bare Ground	6
Angelica sylvestris	1
Carex pendula	2
Dryopteris filix-mas	8
Rubus fruticosus agg.	2
Deschampsia cespitosa	2
Silene dioica	3
Crataegus monogyna, Understorey	1
Quercus robur, Canopy	2
Moss sp.	4

G1.A11 W10 26 | 64 42 16 40 | Que rob-Pte aqu-Rub fru
G1.A11 W10e 25 | 55 48 12 50 | Que rob-Pte aqu-Rub fru Ace pse-Oxa ace
G1.A11 W10a 23 | 57 40 15 34 | Que rob-Pte aqu-Rub fru Typical
G1.21 W 7c 21 | 43 58 9 53 | Aln glu-Fra exc-Lys nem Descham cespit
G1.A2 W 8c 20 | 47 51 7 30 | Fra exc-Ace cam-Mer per Descham cespit

Quadrat 2

urat Z	
Ilex aquifolium, Understorey	1
Galium aparine	4
Hyacinthoides non-scripta	1
Ranunculus repens	1
Hypericum androsaemum	1
Circaea lutetiana	2
Taxus baccata, Understorey	1
Quercus robur, Canopy	1
Bare Ground	2
Acer pseudoplatanus, Canopy	10
Silene dioica	4
Dryopteris dilatata	2
Angelica sylvestris	2
Carex pendula	1
Dryopteris filix-mas	4
Moss sp.	5

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Rubus fruticosus agg. 2
Deschampsia cespitosa 2
Chrysosplenium oppositifolium 5
Urtica dioica 4

G1.21 W 7a 29 | 69 44 18 42 | Aln glu-Fra exc-Lys nem Urtica dioica G1.A11 W10e 22 | 66 35 15 33 | Que rob-Pte aqu-Rub fru Ace pse-Oxa ace G1.A11 W10 21 | 79 30 16 24 | Que rob-Pte aqu-Rub fru G1.41 W 6d 20 | 66 33 10 31 | Aln glut-Urtic dio wood Sambucus nigra G1.A11 W10a 19 | 71 29 15 21 | Que rob-Pte aqu-Rub fru Typical

Quadrat 3

Silene dioica 2 Rhododendron ponticum, 2 Lonicera periclymenum, Understorey 2 Taxus baccata, Understorey *Ilex aquifolium, Understorey* Betula pubescens, Canopy 2 Sorbus aucuparia, Canopy 1 6 Acer pseudoplatanus, Canopy 5 Moss sp. 8 Quercus robur, Canopy 5 Lonicera periclymenum 1 Rubus fruticosus agg. Deschampsia cespitosa 1 Hedera helix Oxalis acetosella 1 Hyacinthoides non-scripta 6 Bare Ground 6 Dryopteris dilatata 2 Dryopteris filix-mas

G1.A11 W10 46 | 100 48 37 60 | Que rob-Pte aqu-Rub fru
G1.A11 W10e 39 | 86 51 25 50 | Que rob-Pte aqu-Rub fru Ace pse-Oxa ace
G1.A11 W10a 35 | 85 41 34 42 | Que rob-Pte aqu-Rub fru Typical
G1.A11 W10c 28 | 85 37 20 42 | Que rob-Pte aqu-Rub fru Hedera helix
G1.A11 W10b 28 | 75 31 29 45 | Que rob-Pte aqu-Rub fru Anemone nemoros

Quadrat 4

Sorbus aucuparia, Canopy 1 1 Hedera helix Crataegus monogyna, Understorey 1 Rhododendron ponticum, 8 Quercus robur, Canopy Acer pseudoplatanus, Canopy 10 Lonicera periclymenum, Understorey 1 Bare Ground 2 Dryopteris dilatata Dryopteris filix-mas 4 5 Moss sp. 2 Rubus fruticosus agg. 5 Deschampsia cespitosa Silene dioica 5 Ilex aquifolium, Understorey 1 Oxalis acetosella 5

G1.A11 W10e 38 | 75 54 25 52 | Que rob-Pte aqu-Rub fru Ace pse-Oxa ace G1.A11 W10 35 | 86 50 23 34 | Que rob-Pte aqu-Rub fru G1.21 W 7c 35 | 62 63 20 57 | Aln glu-Fra exc-Lys nem Descham cespit

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G1.A11 W10a 26 | 71 43 15 25 | Que rob-Pte aqu-Rub fru Typical G1.A11 W10c 25 | 85 41 5 20 | Que rob-Pte aqu-Rub fru Hedera helix

Quadrat 5

Asplenium scolopendrium	1
Dryopteris dilatata	2
Bare Ground	4
Chrysosplenium oppositifolium	3
Circaea lutetiana	3
Angelica sylvestris	2
Hedera helix	2
llex aquifolium, Understorey	1
Oxalis acetosella	3
Dryopteris filix-mas	3
Moss sp.	5
Rubus fruticosus agg.	1
Rhododendron ponticum,	9
Tilia sp., Canopy	3
Quercus robur, Canopy	8
Acer pseudoplatanus, Canopy	7
Ficaria verna	3
Silene dioica	1

	G1.A11	W10	25 64	33	26	34 Que rob-Pte aqu-Rub fru	
	G1.A11	W10e	24 66	38	15	35 Que rob-Pte aqu-Rub fru Ace	pse-Oxa ace
(G1.A11	W10a	18 57	30	19	23 Que rob-Pte aqu-Rub fru Typi	cal
(G1.A11	W10c	16 64	26	10	23 Que rob-Pte aqu-Rub fru Hed	era helix
	G1.632	W12a	15 56	29	5	22 Fagus syl-Merc per wood Merc	cur perennis

Overall Results

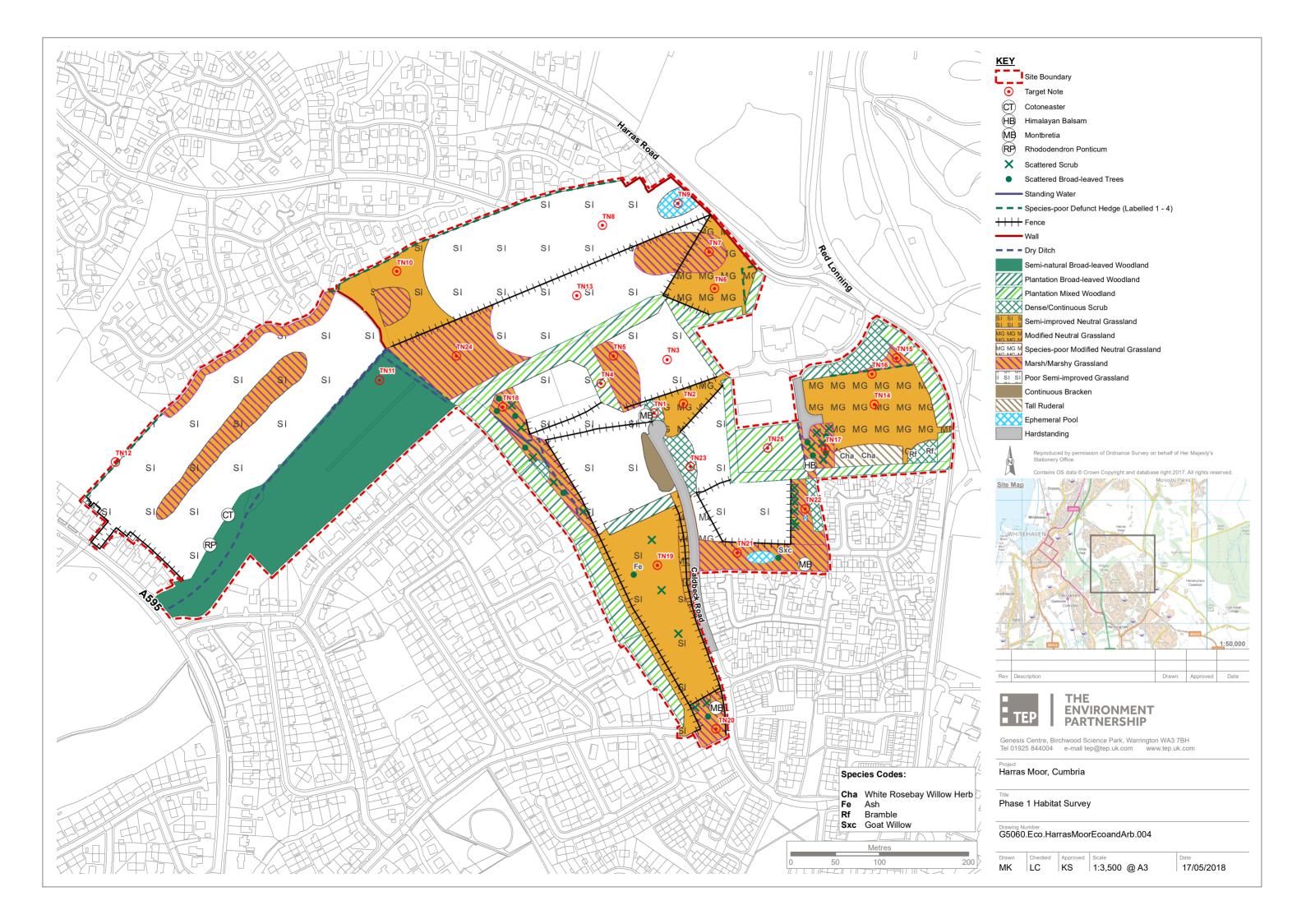
G1.A11 W10 31 79 43 22 39 Que rob-Pte aqu-Rub fru
G1.A11 W10e 30 72 48 16 42 Que rob-Pte aqu-Rub fru Ace pse-Oxa ace
G1.A11 W10a 25 68 38 19 29 Que rob-Pte aqu-Rub fru Typical
G1.21 W 7c 21 48 50 11 39 Aln glu-Fra exc-Lys nem Descham cespit
G1.A11 W10c 19 66 32 7 25 Que rob-Pte aqu-Rub fru Hedera helix

NVC Discussion

Tablefit analysis shows overall marginally stronger resemblance to W10 (*Quercus robur-Pteridium aquilinum-Rubus fruticosus* woodland, and in Quadrat 2, W7a the *Urtica dioica* sub community of *Alnus glutinosa-Fraxinus excelsior-Lysimachia nemorum* woodland. The goodness-of-fit of both communities is less than 49, and therefore classed as 'Very Poor'. This is likely to be due to the predominance of *Rhododendron ponticum* in the understorey which prevents a more natural woodland community developing. The canopy in most places is dominated by sycamore, and few old trees were noted. This suggests that the woodland is heavily modified by people and may have been replanted.

Possible management measures to increase 'naturalness' and improve the ecological value of the woodland include control of the rhododendron and gradual replacement of the sycamore with native species appropriate to the NVC community W10, e.g. *Quercus robur, Betula pendula, Fraxinus excelsior and Ulmus glabra*.

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