

ROAD VERGE SURVEYS WITHIN THE MALVERN HILLS AONB

An evaluation of thirty six sites of nature conservation interest



prepared by

Dr. R. Widdicombe

31st May 2011

CONTENTS	PAGE
1. INTRODUCTION	2
2. SITE SELECTION	2
3. SURVEY METHODOLOGY	2
4. DATA COMPILATION	3
5. OVERVIEW OF FINDINGS	3
APPENDIX I: GENERAL MAP OF VERGES SURVEYED	
APPENDIX II: SITE SURVEY SHEETS	
APPENDIX III: MANAGEMENT RECOMMENDATIONS	
APPENDIX IV: SURVEY DATA SPREADSHEET	

1. INTRODUCTION

Border Ecology was commissioned by Malvern Hills AONB to carry out appraisal and surveys of road-side verges within the Malvern Hills AONB in April 2011. Work commenced during May with permission from the Highways Agency for the roadside work secured by Malvern Hills AONB. Surveys were completed for thirty six verge sites by 26th May 2011. Different highway authorities employ differing timings and cutting regimes on roadside verges. This made it imperative to cover the AONB area as soon as possible for survey of vegetation.

2. SITE SELECTION

Selection of sites for survey was made on the basis of a comprehensive highways and byways evaluation covering the whole of the AONB. This comprised a driving appraisal followed by more detailed walking assessment of promising verges. The coarseness of vegetation is generally a reflection of the composition and diversity of its flora – ruderal species are generally recognisable by their morphological features, and their proportion within the plant community reflects the likely floristic composition. Where verges were clearly dominated by flowering plants such as *Rumex obtusifolius*, *Heracleum sphondylium*, *Urtica dioica*, *Anthriscus sylvestris* and scrub development conditions are not conducive for supporting less competitive meadow species. These were generally obvious in a drive-by. However, where mosaics of plant communities associated with lush growth was apparent, sites were investigated by a walk-over. Clearly, after cutting, these features are less obvious. Presence of vigorous species does not necessarily exclude some more interesting plants especially where a good compliment of grasses are evident in addition to the dominating broadleaved herbs.

The map in Appendix I indicates all sites surveyed. In a few cases mapping of the whole verge site was not undertaken where floristic interest did not merit.

3. SURVEY METHODOLOGY

An adaptation of the methodology for grassland and scrub surveys detailed in the Higher Level Stewardship (HLS) Farm Environmental Plan (FEP) Manual (2010) was employed. This documents survey technique, species frequency assessment and indicator species keys to determine grassland status. For larger areas of vegetation this approach enables the FEP grassland features to be designated as improved, semi-improved species poor, semi-improved species rich, lowland meadow BAP, dry acid grassland BAP and calcareous grassland BAP. The occurrence of flowering herbs in a 10 to 20 stop walk-over is used to determine DAFOR frequency of indicator species. Due to verges being of much smaller areas of habitat all species were recorded with estimates of frequency using the DAFOR index and a BAP habitat status ascribed to the vegetation.

Condition of verges was also evaluated - the narrow nature and impact of traffic compromises verge integrity allowing more vigorous, competitive species to invade. Each site was briefly described, surveyed, mapped and photographed. The record sheets in Appendix II detail these observations.

4. DATA COMPILATION

Survey and mapping data for thirty six verges were gathered electronically and later transferred to standardised Phase 1 habitat survey sheets along with location and map references. A running audit of species and their frequencies was also maintained in the form of an Excel spreadsheet. This is displayed in Appendix IV. Sites are also listed together with any management recommendations deemed necessary in Appendix III.

No statistical information is presented for this short report but could be derived from the GIS files supplied. Electronic data collected for this survey are included in the form of MapInfo GIS files with copies in .shp files together with the survey outcomes in Excel. Also included are separate electronic files of graphics (.bmp) from mapping and photography (.JPG) shown on survey sheets. These files are supplied on enclosed discs.

5. OVERVIEW OF FINDINGS

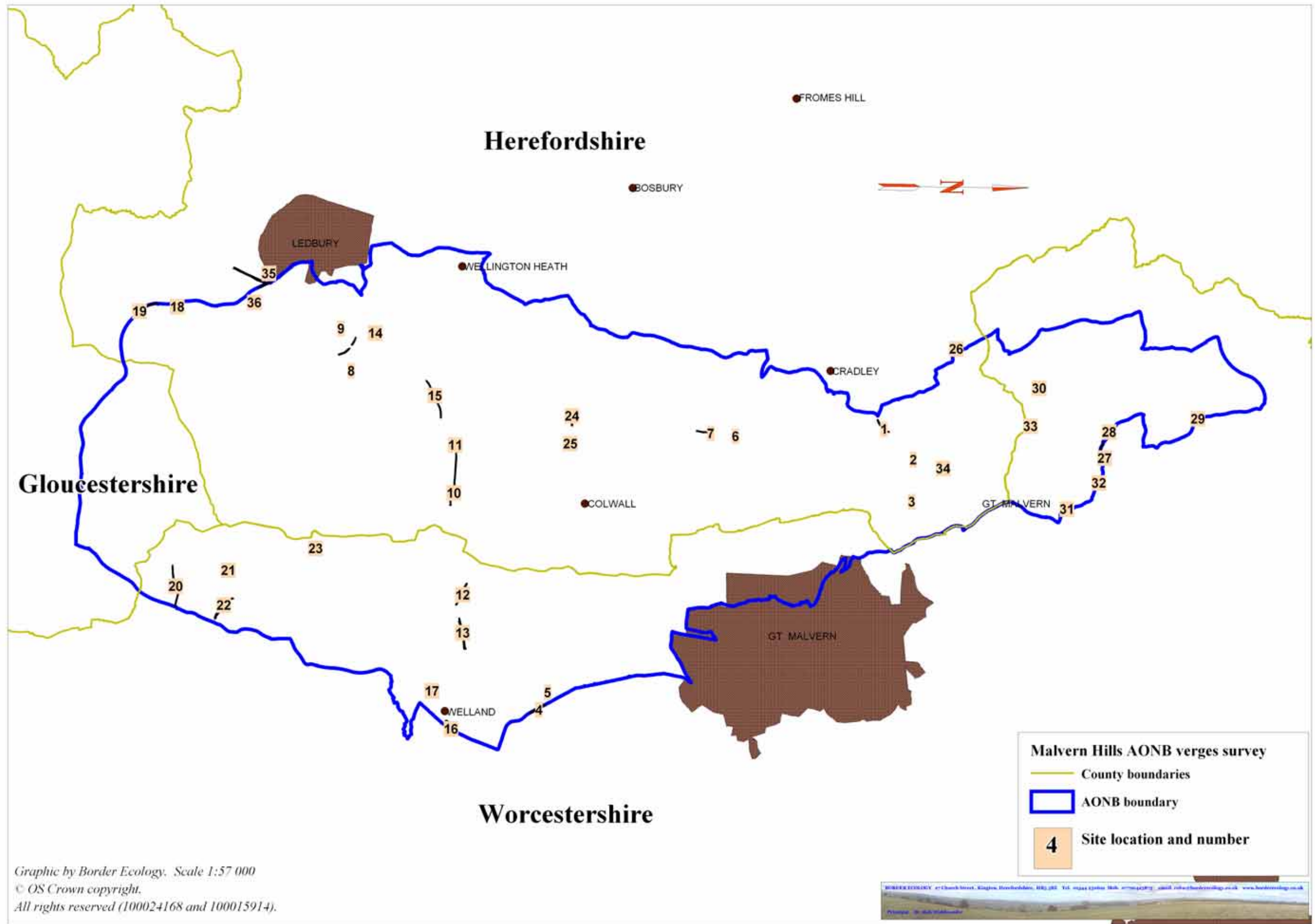
- a. The survey area covered virtually all major and minor roads of the Malvern Hills AONB with the exception of public footpaths, green lanes and the majority of verges by roads through the Commons. The latter were generally unbounded and were continuous with commons' vegetation.
- b. Most verges within the AONB bore some floristic interest with a significant proportion having substantial ruderal growth and therefore un-surveyed.
- c. Of the surveyed verges, the majority possessed good communities of grasses and flowering herbs representative of lowland meadow plant communities.
- d. In most cases, scrub development was being kept at bay by the existing mowing regime whilst some could clearly benefit from an extra early cut.
- e. A large proportion of road-side hedge-banks were found in some areas such as Colwall, Herefordshire and around Alfrick-Suckley, Worcestershire. A small number of these were included in this survey where they formed partial verges.
- f. A range of verges were surveyed including sites which were neutral, calcareous, dry and marshy in character.
- g. Virtually all verges have a one to two metre strip mown from early in the year with a cut of more extensive area made by the conclusion of surveys on 26th May 2011.
- h. Management recommendations should fall into four categories excepting for the sight line strip of one to two metres alongside the road; these are:
 - i. Two cuts per year the first end-July to August depending upon growth*.
 - ii. Cut from end-May followed by 3-4 weekly cut to reduce scrub growth.
 - iii. Two cuts per year, first cut within last two weeks in June (spring flowers)*.
 - iv. Two cuts per year, the first a high 15-20cm cut in April, then from end-July*.

The above categories allow for flowering times of desirable plants and control of scrub whilst minimising inputs (mowing frequency). However, cuts of more than twice a year may be necessary depending upon vigour of plants on verges. In many cases an early high cut of the whole verge is beneficial with further two cuts. Cutting regimes based on these categories are recommended for sites in Appendix III.

* Timing of second cuts as work programme allows but preferably no earlier than end-July

APPENDIX I

GENERAL MAP OF VERGES SURVEYED



Overall map of sites surveyed for Malvern Hills AONB road verges survey 2011

APPENDIX II

SITE SURVEY SHEETS

Survey Contract Malvern Hills AONB Road Verges		Site name Storridge A4103
Grid ref. 374,209. 248,113	Target Note No. 1	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 05/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.3km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

Northern side of road predominantly rough verge with ruderals interspersed with some common flowering herbs. Section north from Vinesend turn noticeably poorer in diversity

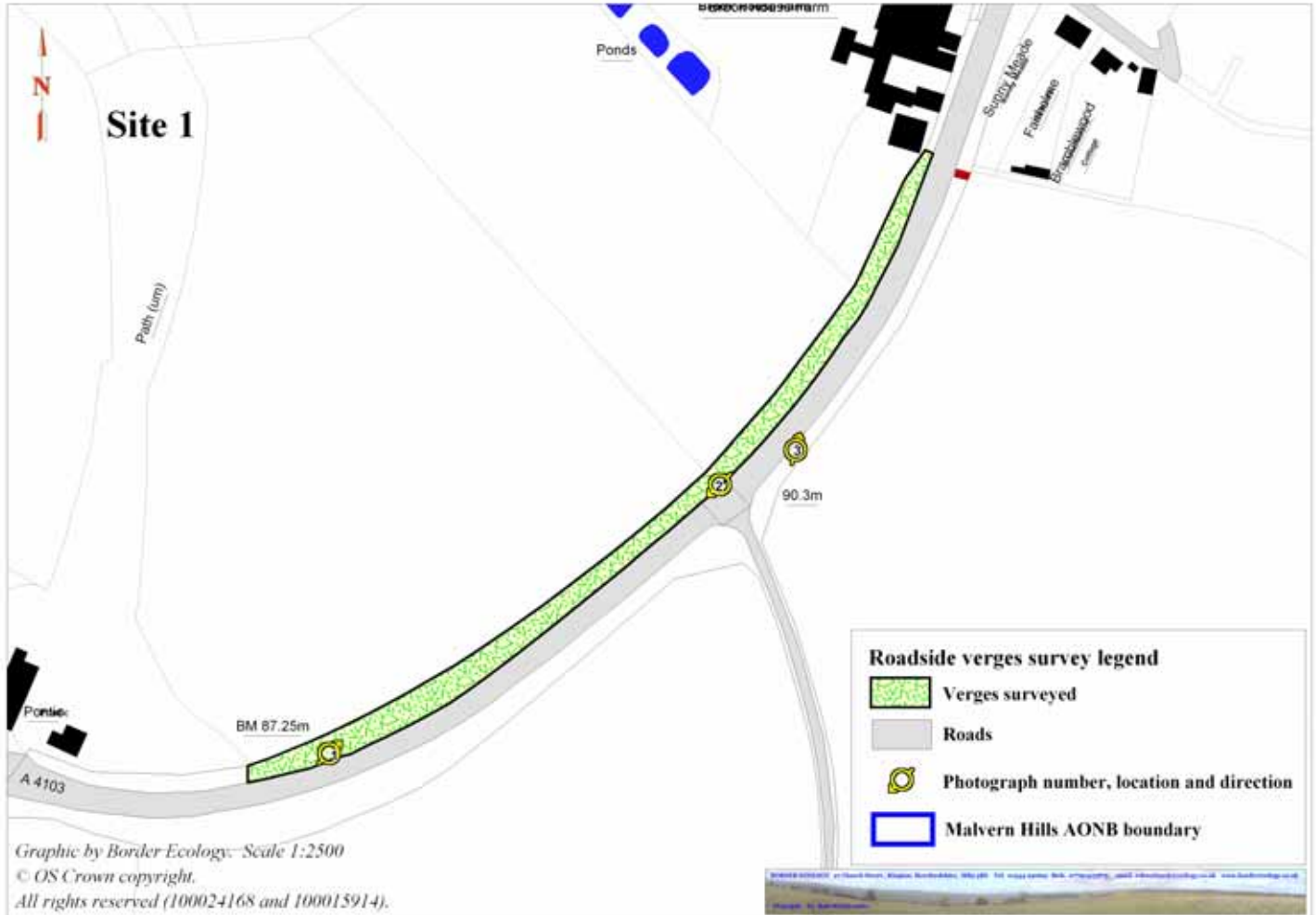


Photo. 1



Photo. 2



Photo. 3

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Adjacent field of improved grassland</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	LF	Humulus lupulus	O	Ranunculus acris	O
Alopecurus pratensis	LF	Hypericum perforatum	O	Ranunculus repens	F
Alliaria petiolata	F	Lamium album	F	Rosa canina	O
Allium ursinum	LF	Lamiastrum galeobdolon	LF	Rubus fruticosus agg.	LF
Anthriscus sylvestris	A	Lathyrus pratensis	LF	Rumex acetosa	F
Centaurea nigra	LF	Leucanthemum vulgare	LF	Rumex obtusifolius	O
Cirsium arvense	O	Lolium perenne	LA	Stachys sylvatica	O
Dactylis glomerata	A	Medicago lupulina	LF	Senecio jacobaea	O
Festuca ovina	LA	Mercurialis perennis	LA	Taraxacum officinale agg.	O
Filipendula ulmaria	LF	Plantago lanceolata	LF	Trifolium pratense	F
Galium aparine	LF	Poa pratensis	LF	Urtica dioica	F
Geum urbanum	O	Poa trivialis	LF	Veronica persica	F
Glechoma hederacea	LF	Potentilla reptans	O	Veronica chamaedrys	LF
Heracleum sphondylium	F	Primula veris	O	Vicia sepium	LF

Boundary type and species

Hawthorn hedge (Cra.mon.(D) with occasional elder (Sam.nig.(O)). 2 mature horse chestnut in hedge seeding into verge.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Storridge A4103
Grid ref. 374,771. 248,649	Target Note No. 2	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 05/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.11 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A site to the south of the carriageway full of fine grasses with nutrient low substrate of variable but generally poor water status.

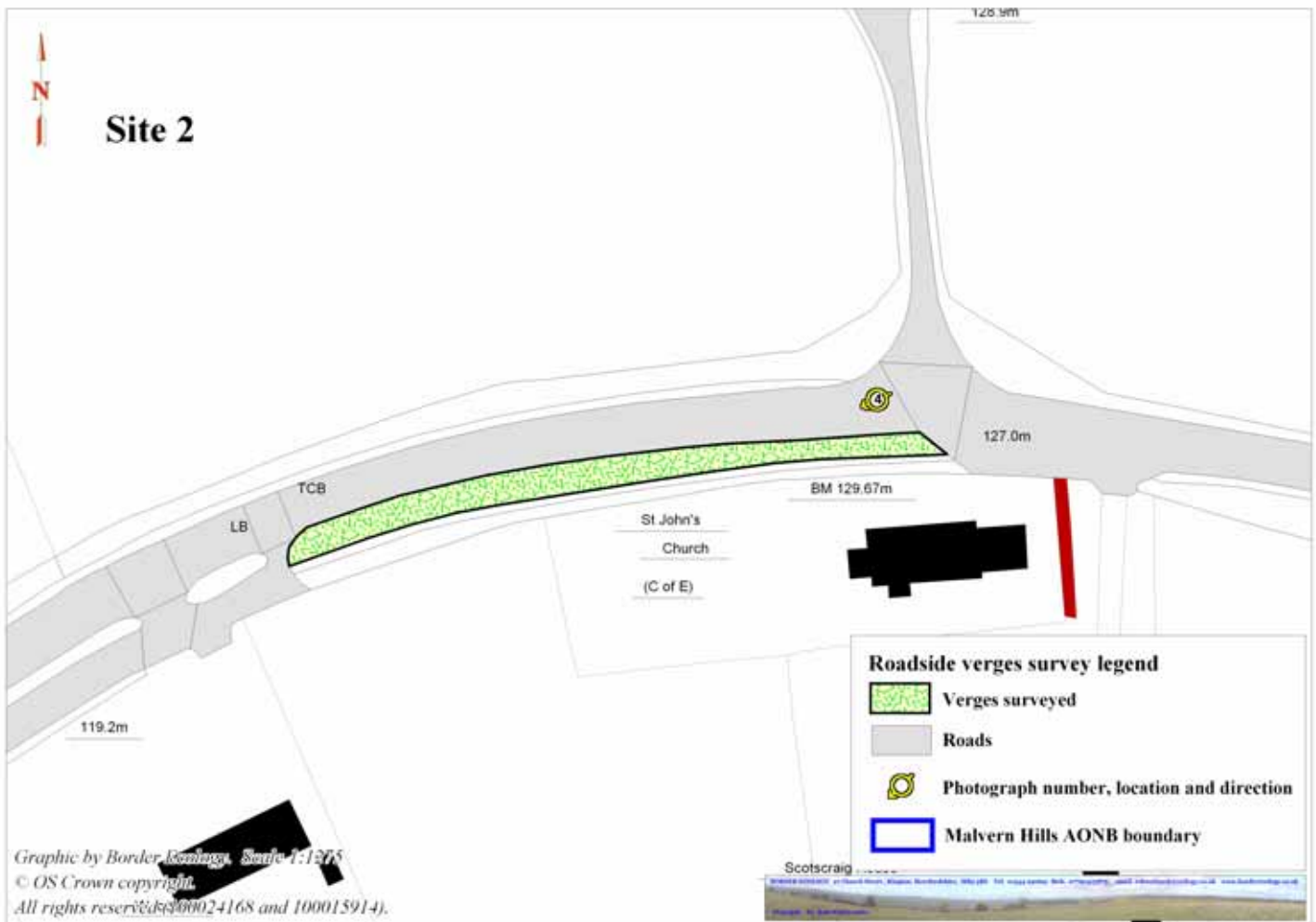


Photo. 4

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Adjacent field of improved grassland</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	F	Festuca pratensis	F	Primula veris	O
Agrostis canina	O	Festuca rubra	F	Ranunculus repens	O
Alopecurus pratensis	LF	Heracleum sphondylium	O	Ranunculus ficaria	LF
Anthriscus sylvestris	O	Holcus lanatus	O	Taraxacum officinale agg.	O
Anthoxanthum odoratum	A	Holcus mollis	O	Trifolium dubium	O
Bellis perennis	O	Hypericum perforatum	LF	Trifolium pratense	O
Cardamine pratensis	F	Leucanthemum vulgare	LF	Veronica persica	F
Carex hirta	F	Lotus corniculatus	O	Veronica chamaedrys	LF
Centaurea nigra	LF	Luzula campestris	F	Vicia sativa subsp.	
Cerastium fontanum	O	Mercurialis perennis	O	Segetalis	F
Dactylis glomerata	LF	Plantago lanceolata	F	Vicia sepium	O
Equisetum arvense	O	Plantago major	O		
Festuca ovina	A	Potentilla reptans	LF		

Boundary type and species

Stone wall, garden trees with bay laurel, and a mixed hedge in equal measure. The latter Cor.ave.(F); Cra.mon.(F); Sam. nig.(O); Pru. spi.(F); Cle. vit.(LF); Ace. pse.(F) and a mature domestic apple tree

Other species of interest

Orange tip butterfly (female) seen on Cardamine pratensis

Survey Contract Malvern Hills AONB Road Verges		Site name Crumpton Hill Road, Storridge
Grid ref. 375,558, 248,620	Target Note No. 3	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 05/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.15 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A hedge/wood edge bank 2-3 metres wide south of the minor road which blends into a flat verge with ditch at its eastern half.



Photo. 5



Photo. 6

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
<i>Adjacent orchard and small strip of broadleaved woodland</i>				
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	LF	Festuca arundinacea	O	Poa pratensis	F
Alopecurus pratensis	LF	Festuca ovina	A	Potentilla reptans	LF
Alliaria petiolata	LF	Festuca rubra	LF	Primula veris	O
Anthriscus sylvestris	LA	Galium aparine	F	Ranunculus acris	O
Bellis perennis	O	Glechoma hederacea	O	Ranunculus repens	LF
Bromus commutatus	O	Heracleum sphondylium	O	Rumex obtusifolius	LF
Centaurea nigra	LF	Lamium album	O	Taraxacum officinale agg.	O
Cerastium fontanum	O	Lathyrus pratensis	LA	Trifolium pratense	LF
Cirsium arvense	LF	Lolium perenne	F	Urtica dioica	O
Cynosurus cristatus	LF	Lotus corniculatus	R	Veronica chamaedrys	LF
Dactylis glomerata	O	Medicago lupulina	A	Vicia sativa subsp.	
Elytrigia repens	LF	Plantago lanceolata	F	Segetalis	LF
Epilobium hirsutum	O	Poa glauca	LF	Vicia sepium	O

Boundary type and species

Mixed overgrown prev. laid hedge of:

Cor.ave.(F); Vib.opu.(O); Ace.cam.(F); Cra.mon.(F); Fra.exc.(F); Hed.hel.(O); Ros.can.(O); Que.rob.(O); Sal.cap.(O); Lower section woodland edge of Que.rob.(D); Ace.cam.(F).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name B4208 east Blackmore Park Road
Grid ref. 379,397. 241,736	Target Note No. 4	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 05/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.33 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

The eastern verge is narrow to 2 metres maximum with less floristic diversity than the opposing verge.

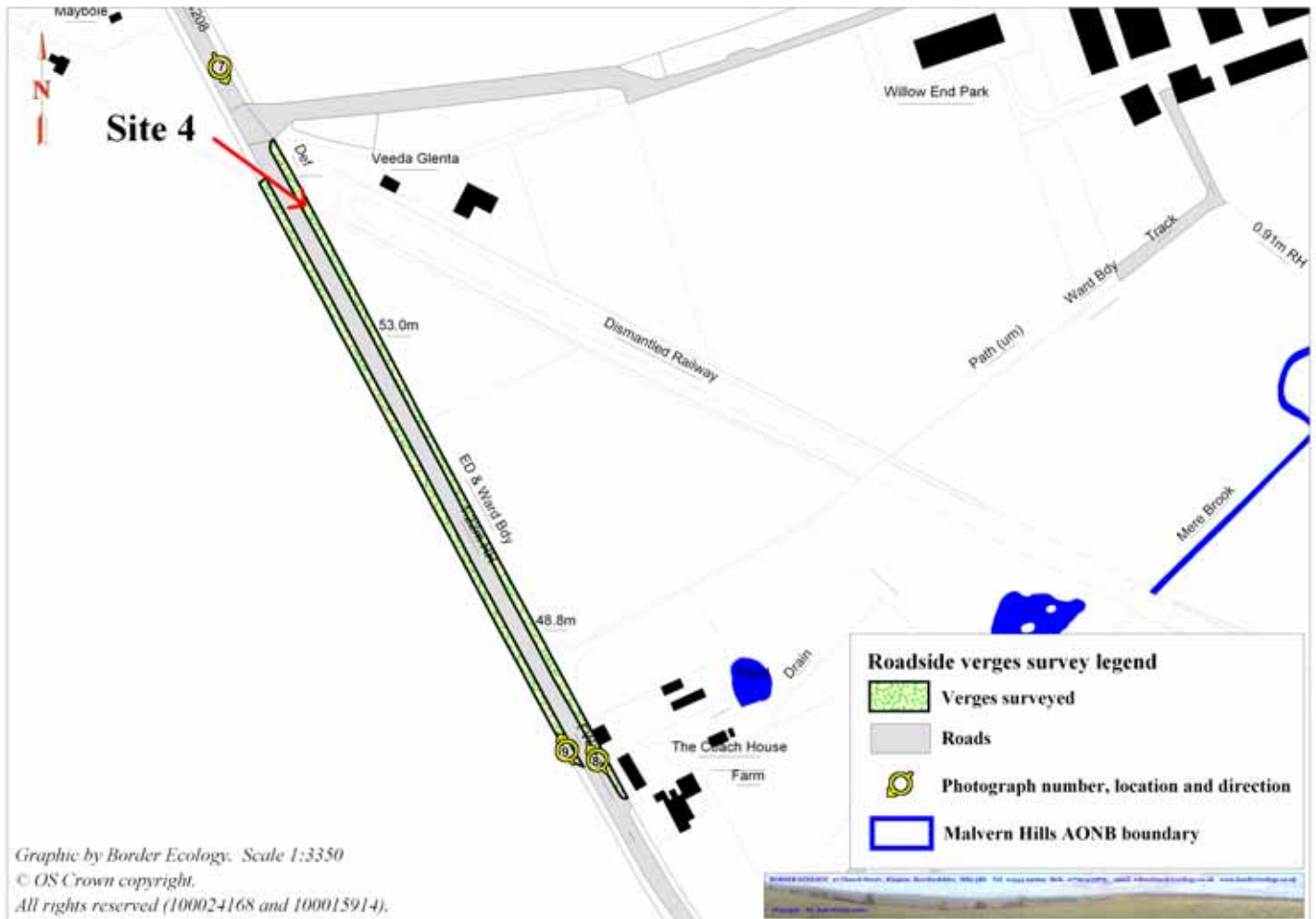


Photo. 7



Photo. 8

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Ley grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	LF	Festuca ovina	A	Primula veris	O
Alopecurus pratensis	LF	Festuca rubra	LF	Ranunculus acris	O
Alliaria petiolata	LF	Galium aparine	F	Ranunculus repens	LF
Anthriscus sylvestris	LA	Glechoma hederacea	O	Rumex obtusifolius	LF
Bellis perennis	O	Heracleum sphondylium	O	Taraxacum officinale	
Bromus commutatus	O	Lamium album	O	agg.	O
Centaurea nigra	LF	Lathyrus pratensis	LA	Trifolium pratense	LF
Cerastium fontanum	O	Lolium perenne	F	Urtica dioica	O
Cirsium arvense	LF	Lotus corniculatus	R	Veronica chamaedrys	LF
Cynosurus cristatus	LF	Medicago lupulina	A	Vicia sativa subsp.	
Dactylis glomerata	O	Plantago lanceolata	F	Segetalis	LF
Elytrigia repens	LF	Poa glauca	LF	Vicia sepium	O
Epilobium hirsutum	O	Poa pratensis	F		
Festuca arundinacea	O	Potentilla reptans	LF		

Boundary type and species

A hawthorn hedge Cra.mon.(D) with some Fra. exc.(O) and a few small trees of Fra. exc.(O); Sal.alb.(O) and Sal.cap.(O).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name B4208 west Blackmore Park Road
Grid ref. 379,391. 241,721	Target Note No. 5	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 05/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.30 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A 3 metre wide mixture of coarse and fine grasses with some floristic interest of commoner meadow species.

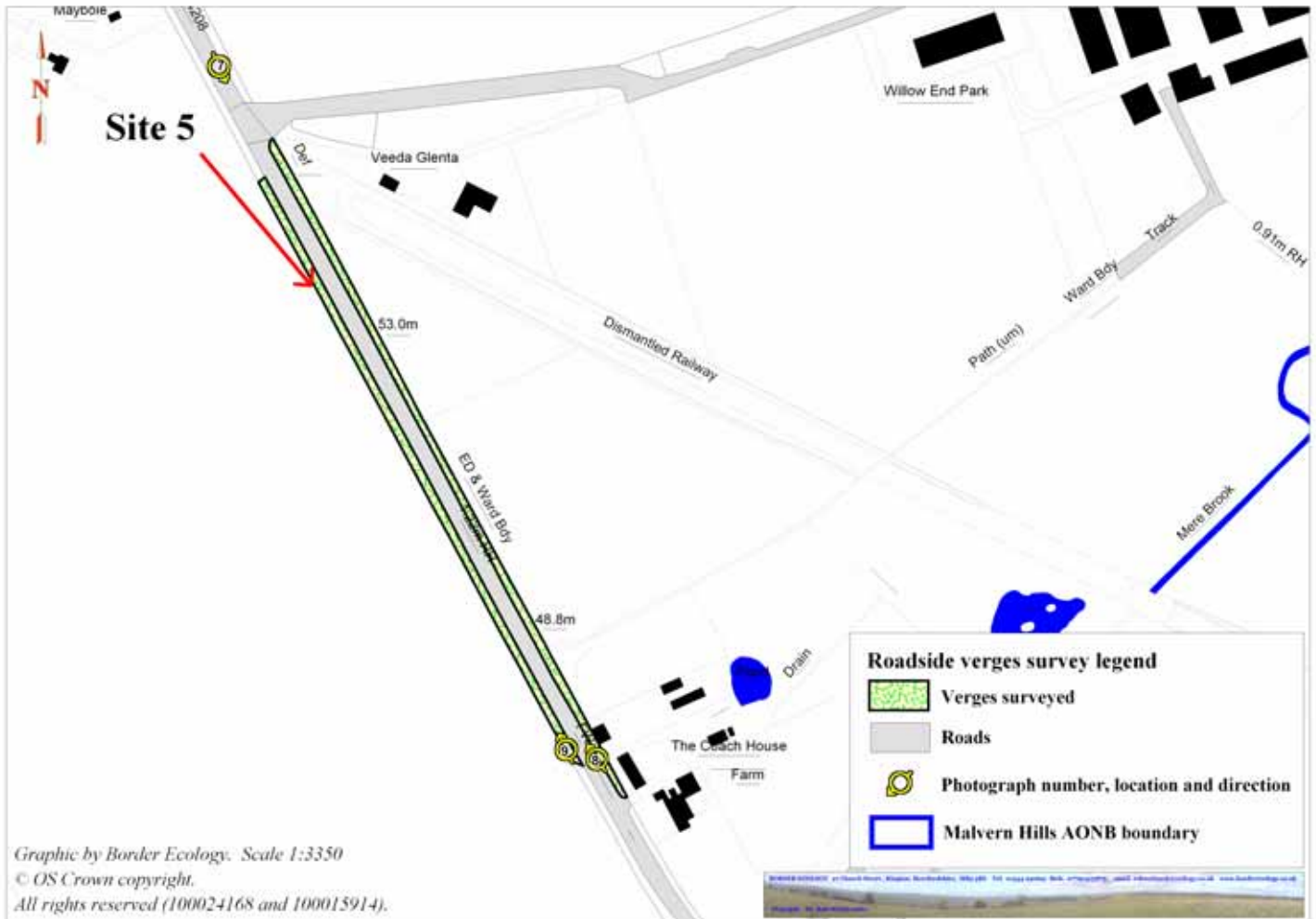


Photo. 9

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Amenity grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	F	Epilobium hirsutum	LA	Poa pratensis	F
Alopecurus pratensis	O	Festuca ovina	F	Potentilla reptans	O
Alliaria petiolata	O	Festuca rubra	F	Primula veris	O
Anthriscus sylvestris	LF	Filipendula ulmaria	LF	Ranunculus repens	LA
Anthoxanthum odoratum	LF	Galium aparine	F	Rumex acetosa	O
Bellis perennis	O	Glechoma hederacea	O	Rumex obtusifolius	LF
Bromus commutatus	O	Heracleum sphondylium	O	Stellaria holostea	LF
Carex divulsa	O	Lamium album	O	Trifolium pratense	LF
Carex hirta	LF	Lathyrus pratensis	LA	Urtica dioica	LF
Centaurea nigra	O	Lolium perenne	F	Vicia sepium	O
Cirsium arvense	O	Plantago lanceolata	LF		
Convolvulus arvensis	O	Poa glauca	LF		
Cynosurus cristatus	O				
Dactylis glomerata	O				

Boundary type and species

A hawthorn hedgerow Cra.mon.(D). with two small trees of Fra. exc.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Lane End, Mathon
Grid ref. 374,365. 245,386	Target Note No. 6	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 05/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.11 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

Hedge bank narrow verge vegetated with a profusion of wild garlic together with yellow archangel and meadowsweet.



Photo. 10



Photo. 11

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Aegopodium podagraria	LA
Agrostis stolonifera	F
Alliaria petiolata	O
Allium ursinum	D
Anthriscus sylvestris	O
Filipendula ulmaria	LA
Galium aparine	F
Geranium robertianum	F
Glechoma hederacea	F
Heracleum sphondylium	O
Lamium album	O
Lamium album	O
Lamium album	O
Lamium album	O
Lamiastrum galeobdolon	F
Mercurialis perennis	F
Petasites hybridus	LF
Rumex obtusifolius	O
Stellaria holostea	LF
Taraxacum officinale	O
agg.	O

Boundary type and species

Mixed hedgerow of Cor.ave.(F); Cra.mon.(F); Ile.aqui.(O); Ulm.pro.(O); Ace.cam.(F). Single Ilex aqui. tree.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Weobley Cross
Grid ref. 374,292. 244,927	Target Note No. 7	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 06/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.26 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

2-3 metre wide verge of rough herbage with wet areas bounded by hedge and ditch.



Photo. 12



Photo. 13

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
<i>Wet area with willow (Salix alba)</i>	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)				
Agrostis stolonifera O Alopecurus pratensis F Alliaria petiolata O Anemone nemorosa O Anthriscus sylvestris LA Arum maculatum O Carex pendula O Cirsium arvense O Convolvulus arvensis O Epilobium hirsutum LF Equisetum arvense O Filipendula ulmaria A Galium aparine O	Geum urbanum O Glyceria maxima LD Heracleum sphondylium O Hyacinthoides non-scripta O Lamium album LF Lathyrus pratensis LF Medicago lupulina LF Mercurialis perennis LF Plantago major O Populus tremula O Potentilla anserina O Potentilla reptans O	Pteridium aquilinum O Ranunculus repens F Ranunculus ficaria O Rubus fruticosus agg. O Rumex obtusifolius O Stellaria holostea LF Taraxacum officinale agg. O Urtica dioica LF Vicia sativa subsp. segetalis O Vicia sepium F		
Boundary type and species <i>Mixed hedgerow of Cor. ave.(F); Fra.exc.(O); Cra.mon.(F); Cor.san.(O); Pru.spi.(F) with tree cluster separating two sections of Sal. alb.(O).</i>				
Other species of interest				

Survey Contract Malvern Hills AONB Road Verges		Site name A439 Eastnor
Grid ref. 372,814. 238,166	Target Note No. 8	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 06/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.29 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

2-4 metre wide rough grassland with low floristic diversity but containing some interesting species such as goat's beard and meadow vetchling in low frequency



Photo. 14

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				<i>Arable field adjacent</i>

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Aegopodium podagraria	O	Hyaconthoides non-scripta	O	Rubus fruticosus agg.	O
Anthriscus sylvestris	LF	Lamium album	O	Rumex obtusifolius	F
Cerastium fontanum	O	Lathyrus pratensis	O	Stachys sylvatica	LF
Cirsium arvense	O	Medicago lupulina	LF	Taraxacum officinalis agg.	LF
Convolvulus arvensis	O	Myosotis arvensis	F	Tragopogon pratensis	O
Dactylis glomerata	F	Plantago lanceolata	O	Trifolium repens	LF
Festuca ovina	F	Plantago major	O	Urtica dioica	LF
Festuca pratensis	O	Ranunculus repens	LF	Vicia sativa ssp. segetalis	F
Filipendula ulmaria	LF	Poa pratensis	O	Vicia sepium	O
Hedera helix	LF	Potentilla reptans	O		
Heracleum sphondylium	F				

Boundary type and species

Hedge of hawthorn Cra.mon (D). with Cor. ave.(F) and Ace.cam(O).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name A439 Eastnor
Grid ref. 372,614 238,343	Target Note No. 9	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 06/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.15 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

2-3 metres width of fine grass sward bordered field-side by a dry ditch and substantial, shaded bank of approx. 3 metres + width.



Photo. 15

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				<i>Arable field adjacent</i>

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	LF	Fragaria vesca	F	Ranunculus repens	LF
Alliaria petiolata	O	Galium aparine	O	Stellaria holostea	LF
Anthriscus sylvestris	F	Geranium robertianum	F	Taraxacum officinale	
Bellis perennis	LF	Glechoma hederacea	F	agg.	O
Brachypodium sylvaticum	LA	Heracleum sphondylium	F	Trifolium pratense	F
Cerastium fontanum	F	Hypericum perforatum	F	Veronica chamaedrys	LF
Chamerion angustifolium	LF	Lathyrus pratensis	LF	Vicia sativa subsp.	
Cirsium arvense	O	Leucanthemum vulgare	F	segetalis	F
Dactylis glomerata	LF	Myosotis arvensis	O	Vicia sepium	O
Festuca ovina	A	Plantago lanceolata	F	Viola riviniana	LF
Festuca pratensis	O	Primula veris	LA		

Boundary type and species

Defunct hawthorn hedge but treeline of ash, birch and oak..

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name A449 Chances Pitch
Grid ref. 375,405. 240,177	Target Note No. 10	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 06/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 1.01 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A narrow verge 1-2 metres predominantly of rough herbage but with some floristic interest in adjacent boundary vegetation.



Photo. 16

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>t</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				<i>Arable field adjacent</i>

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Alliaria petiolata	LA	Geum urbanum	LF	Ranunculus acris	O
Anthriscus sylvestris	LA	Helleborus foetidus	LF	Ranunculus repens	LA
Brachypodium sylvaticum	O	Heracleum sphondylium	F	Rubus fruticosus agg.	LD
Calystegia sepium agg.	LF	Lamium album	LF	Rumex obtusifolius	F
Clematis vitalba	LA	Mercurialis perennis	LF	Stachys sylvatica	O
Convolvulus arvensis	O	Poa pratensis	F	Trifolium pratense	O
Elytrigia repens	F	Potentilla reptans	F	Urtica dioica	LF
Festuca ovina	F				
Galium aparine	F				

Boundary type and species

Verge fringes a wooded slope mainly of Fra. exc.(F) with Bet. pen.(LF) along the boundary.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name A449 Chances Pitch
Grid ref. 374,519. 240,195	Target Note No. 11	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 06/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.20 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

1.5 - 2 metre verge of dry impoverished soil supporting a variety of herbs such as meadow, vetchling, black knapweed and salad burnet with fine grasses.



Photo. 17

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
<i>Fringed by a strip of broadleaved woodland</i>				
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)				
Achillea millefolium F Alliaria petiolata O Anthriscus sylvestris O Brachypodium sylvaticum LF Centaurea nigra LA Cirsium arvense O Clematis vitalba O Dactylis glomerata F Elytrigia repens F Festuca ovina LA	Heracleum sphondylium LF Hypericum perforatum LF Lamium album O Lathyrus pratensis LF Medicago lupulina O Mercurialis perennis LF Myosotis arvensis LF Plantago lanceolata O Potentilla reptans LF	Rubus fruticosus agg. O Rumex obtusifolius O Sanguisorba minor O Stachys sylvatica O Stellaria holostea LF Trifolium pratense O Urtica dioica LF Vicia sepium O		
Boundary type and species <i>A mixed woodland edge of Cra. mon.(F); Fra. exc.(F); Pin. syl.(LF) and Que. rob.(F)..</i>				
Other species of interest				

Survey Contract Malvern Hills AONB Road Verges		Site name A4104 Little Malvern Priory
Grid ref. 377,270. 240,329	Target Note No. 12	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 06/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.44 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A wide verge to 10 metres with an abundance of grass and herbs species. Lower section to just above gateway more abundant in ruderals e.g. cow parsley.



Photo. 18



Photo. 19



Photo. 20

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				Improved grassland adjacent

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Alopecurus pratensis	LF	Holcus lanatus	O	Rosa arvensis	O
Alliaria petiolata	F	Juncus effusus	LF	Rosa canina	F
Anthriscus sylvestris	LA	Lamium album	O	Rubus fruticosus agg.	LF
Anthoxanthum odoratum	LA	Lathyrus pratensis	LF	Stachys sylvatica	LA
Bellis perennis	O	Leucanthemum vulgare	LF	Stellaria graminea	F
Centaurea nigra	O	Lotus corniculatus	LF	Taraxacum officinale	
Cirsium arvense	LF	Luzula campestris	LF	agg.	LF
Convolvulus arvensis	O	Phleum bertolonii	O	Trifolium pratense	O
Dactylis glomerata	LF	Plantago lanceolata	O	Trifolium repens	LF
Deschampsia cespitosa	R	Poa pratensis	LA	Urtica dioica	LF
Equisetum arvense	R	Potentilla reptans	F	Veronica chamaedrys	LF
Festuca ovina	LA	Primula veris	LF	Vicia hirsute	LF
Geranium robertianum	F	Ranunculus acris	LF	Vicia sativa subsp.	
Geum urbanum	LF	Ranunculus repens	LF	Segetalis	F
Glechoma hederacea	O	Ranunculus ficaria	LF	Vicia sepium	F
Heracleum sphondylium	O				

Boundary type and species

Elevated hedge boundary of Cra. mon.(D) with a couple of small trees Fra. exc.(O).

Other species of interest

Lesser whitethroat calling in hedgerows

Survey Contract Malvern Hills AONB Road Verges		Site name A4104 Marlbank Road
Grid ref. 377,987. 240,350	Target Note No. 13	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 06/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 1.09 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A long 2-4 metre wide stretch of diverse, flower rich herbage the northern verge of which is the widest and richest. The southern verge is narrower.



Photo. 21

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				Improved grassland adjacent

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	F	Geum urbanum	LF	Ranunculus acris	O
Alopecurus pratensis	F	Heracleum sphondylium	F	Ranunculus repens	F
Alliaria petiolata	O	Holcus mollis	LF	Ranunculus ficaria	LF
Anthriscus sylvestris	LA	Hyacinthoides hispanica	O	Rubus fruticosus agg.	LF
Anthoxanthum odoratum	F	Hyacinthoides non-scripta	F	Rumex acetosa	LF
Bromus commutatus	LF	Juncus effusus	O	Rumex obtusifolius	F
Carex hirta	O	Lamium album	LF	Stachys sylvatica	LF
Centaurea nigra	O	Lathyrus pratensis	LF	Stellaria graminea	F
Cirsium arvense	LF	Plantago lanceolata	LF	Tragopogon pratensis	O
Cirsium vulgare	O	Poa pratensis	F	Urtica dioica	LF
Epilobium hirsutum	LF	Potentilla anserina	LF	Veronica chamaedrys	LF
Festuca ovina	LA	Potentilla reptans	LF	Vicia sativa subsp. segetalis	F
Festuca rubra	F	Pteridium aquilinum	R	Vicia sepium	F
Geranium dissectum	LF				
Geranium robertianum	O				

Boundary type and species

The mixed hedgerow north of the carriageway consists of Cra.mon.(F); Pru.spi.(F); Cor. ave.(O); Que.rob.(O); Fra.exc.(O) and Lig.vul.(O). The southern boundary is a taller elm hedge comprising Cra.mon.(A) and Ulm.pro.(A). with some small trees mainly Fra. Exc.(F) with some Pop. spp.

Other species of interest

Lesser whitethroat singing and calling along hedgerows

Survey Contract Malvern Hills AONB Road Verges		Site name A449 Lower Mitchell
Grid ref. 372,438. 238,715	Target Note No. 14	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 10/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.08 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A short verge widening to approx. 6 metres with elements of fine grass sward and meadow species dominated by meadow vetchling..



Photo. 22

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				Improved grassland adjacent

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	LA	Festuca rubra	LF	Ranunculus repens	LF
Aegopodium podagraria	LA	Galium aparine	LF	Rubus fruticosus agg.	O
Agrostis capillaris	LF	Geranium molle	O	Sanguisorba minor	O
Alliaria petiolata	F	Glechoma hederacea	O	Solanum dulcamara	O
Anthriscus sylvestris	LF	Heracleum sphondylium	F	Stellaria holostea	LF
Arctium minus	O	Lamium album	LF	Taraxacum officinale agg.	O
Cerastium fontanum	O	Lathyrus pratensis	LA	Tragopogon pratensis	F
Cirsium arvense	LF	Medicago lupulina	LF	Trifolium pratense	F
Cirsium vulgare	O	Myosotis arvensis	O	Trifolium repens	LF
Clematis vitalba	LA	Plantago lanceolata	F	Urtica dioica	LA
Dactylis glomerata	F	Poa pratensis	LF	Vicia sepium	LF
Festuca ovina	LA	Potentilla reptans	F		

Boundary type and species

A mixed hedge of Cor. Ave (F); Fra. Exc.(F); Cra. Mon.(F) and field maple dogwood (O) with Cle. vit.(F).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name A449 Worcester Road
Grid ref. 373,601. 239,817	Target Note No. 15	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 10/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.76 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A wide verge well cut to preserve sight lines with mixed ruderal and common meadow species.



Photo. 23

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				Arable fields adjacent

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Agrostis capillaris	O	Festuca rubra	LF	Ranunculus acris	O
Alopecurus pratensis	O	Filipendula ulmaria	LA	Ranunculus repens	LF
Anthriscus sylvestris	LA	Geranium dissectum	O	Rubus fruticosus agg.	O
Anthoxanthum odoratum	F	Geranium robertianum	O	Rumex obtusifolius	O
Bromus commutatus	O	Glechoma hederacea	F	Stachys sylvatica	LF
Carex hirta	LF	Heracleum sphondylium	LF	Stellaria holostea	LF
Cerastium fontanum	O	Lamium album	F	Taraxacum officinale	
Cirsium arvense	O	Medicago lupulina	LF	agg.	O
Convolvulus arvensis	O	Mercurialis perennis	LA	Tragopogon pratensis	O
Dactylis glomerata	LF	Myosotis arvensis	O	Trifolium dubium	O
Daucus carota	LF	Plantago lanceolata	F	Urtica dioica	LF
Elytrigia repens	LF	Poa pratensis	LA	Vicia hirsute	O
Epilobium hirsutum	LF	Potentilla anserina	O	Vicia sativa subsp.	
Festuca arundinacea	LF	Potentilla reptans	F	Segetalis	LF
Festuca ovina	LA	Pteridium aquilinum	LA	Vicia sepium	LF

Boundary type and species

Hedgerow oak Que.rob.(O) within a pure hawthorn hedge Cra.mon.(D).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name B4208 Welland
Grid ref. 379,758. 240,134	Target Note No. 16	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 10/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.26 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A wide verge well cut to preserve sight lines with mixed ruderal and common meadow species..



Photo. 24

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Amenity grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)				
Achillea millefolium F Alopecurus pratensis O Anthriscus sylvestris LF Anthoxanthum odoratum F Bellis perennis F Bromus commutatus F Carex hirta O Centaurea nigra O Cerastium fontanum O Cirsium arvense O Convolvulus arvensis O Dactylis glomerata LF Elytrigia repens LF	Epilobium hirsutum LF Festuca ovina F Festuca rubra F Heracleum sphondylium O Lamium album LF Lathyrus pratensis LA Leucanthemum vulgare LA Lolium perenne F Medicago lupulina F Phleum bertolonii O Plantago lanceolata F	Primula veris O Ranunculus acris O Ranunculus repens LF Rubus fruticosus agg. LF Senecio jacobaea O Trifolium dubium O Trifolium pratense LF Trifolium repens LF Veronica chamaedrys F Vicia sativa subsp. Segetalis O Vicia sepium F		
Boundary type and species <i>Hedgerow entirely of hawthorn Cra.mon(D) with a semi-mature ash tree Fra.exc.(R).</i>				
Other species of interest				

Survey Contract Malvern Hills AONB Road Verges		Site name Welland Green
Grid ref. 379,617. 240,035	Target Note No. 17	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 10/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.15 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

The green winged orchid site. Noticeably unimproved grass sward with significant diversity of fine grass and flowering herb species.

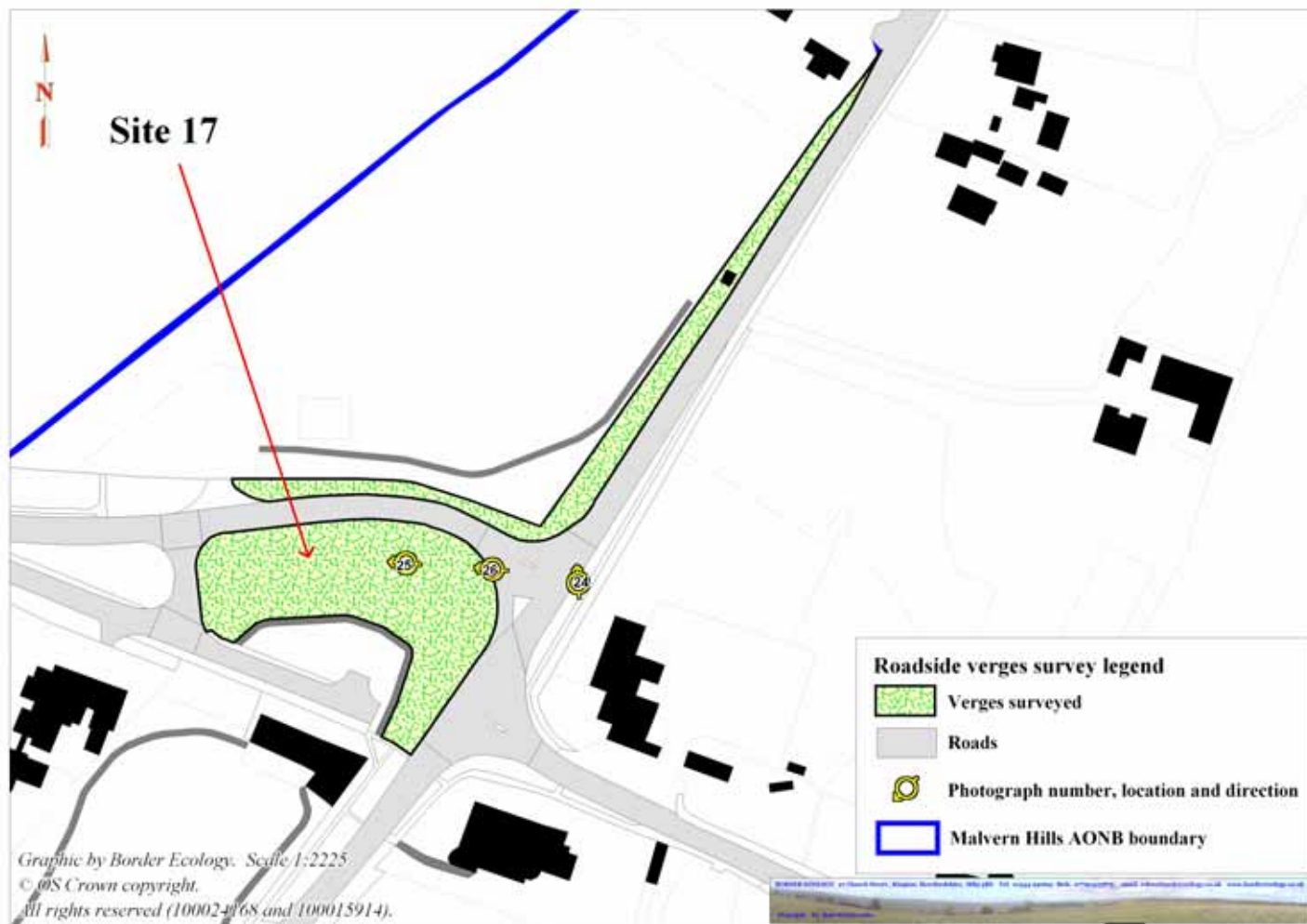


Photo. 25 *Orchis morio*



Photo. 26

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Amenity grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)				
Achillea millefolium F Alopecurus pratensis F Anthoxanthum odoratum F Centaurea nigra F Cerastium fontanum O Cynosurus cristatus O Dactylis glomerata O	Festuca rubra F Leontodon autumnalis O Luzula campestris F Medicago lupulina F Orchis morio LF Plantago lanceolata O Ranunculus repens F	Rumex acetosa O Taraxacum officinale agg. O Trifolium pratense F Trifolium repens O Vicia sepium F		
Boundary type and species <i>No boundary excepting the road and surrounding amenity area.</i>				
Other species of interest				

Survey Contract Malvern Hills AONB Road Verges		Site name A417
Grid ref. 371,920. 234,643	Target Note No. 18	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 10/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.17 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A much finer species rich sward than the adjoining one to the south. Poorer, drier conditions of substrate gives this site a different character.

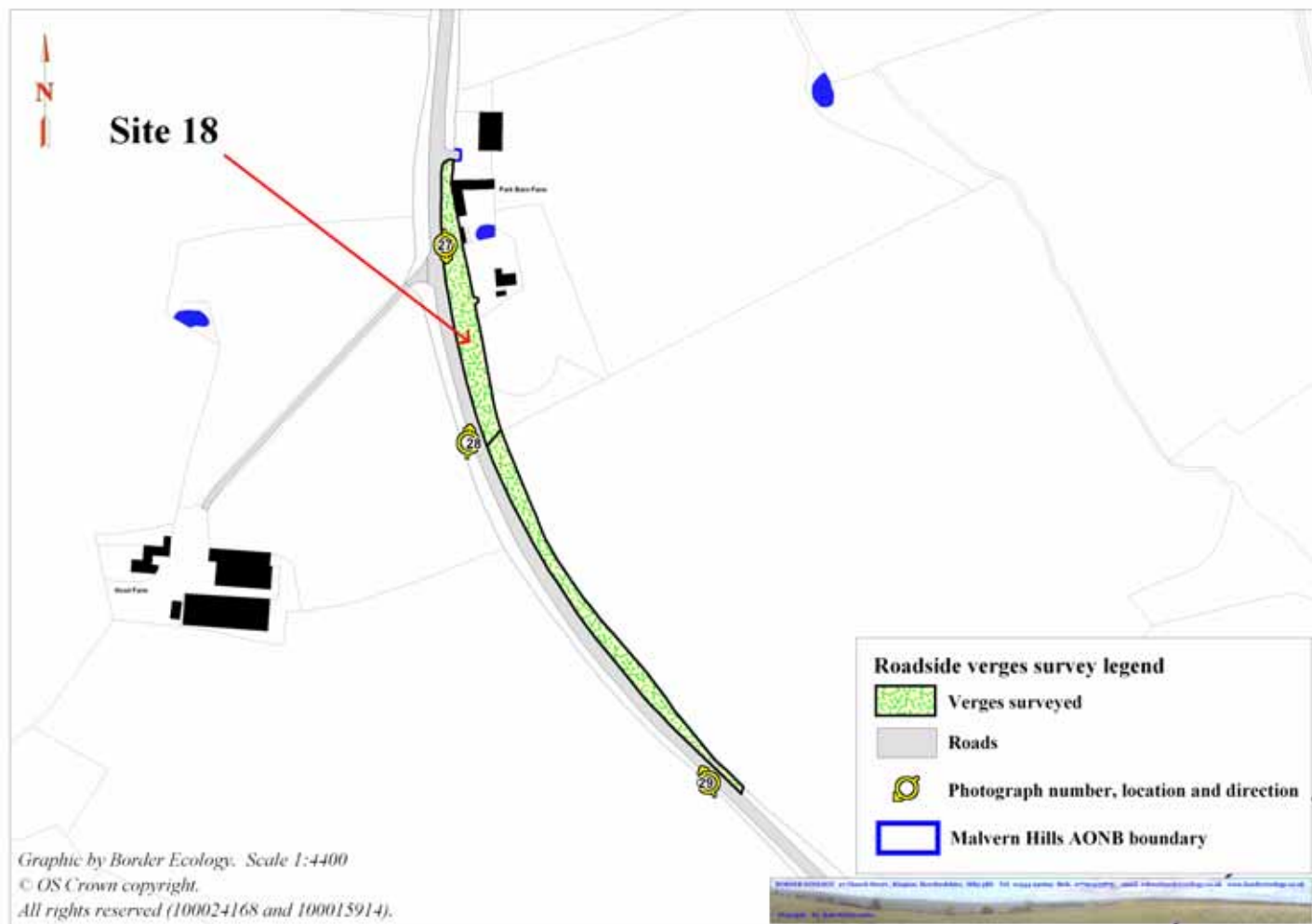


Photo. 27



Photo. 28

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				Arable field adjacent

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	F	Festuca arundinacea	O	Poa pratensis	F
Anthoxanthum odoratum	LA	Festuca ovina	A	Potentilla reptans	F
Brachypodium sylvaticum	O	Festuca rubra	O	Ranunculus acris	O
Bromus commutatus	O	Hypericum perforatum	LF	Ranunculus repens	LF
Carex flacca	F	Lathyrus pratensis	LA	Rubus fruticosus agg.	LF
Centaurea nigra	F	Leucanthemum vulgare	F	Rumex acetosa	O
Cerastium fontanum	O	Luzula campestris	LF	Stellaria holostea	O
Dactylis glomerata	O	Medicago lupulina	LF	Trifolium pratense	F
		Plantago lanceolata	F	Vicia hirsute	LF

Boundary type and species

Of tall overgrown hawthorn (D) and ash (O).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name A417
Grid ref. 372,053. 234,385	Target Note No. 19	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 10/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.25 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

Wide 8-10 metre verge of rough herbage within generally coarse sward narrowing at its southern end to continue as rough herbage. Cut off drain at its northern end.



Photo. 29

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				Arable field adjacent

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	F	Galium mollugo	O	Ranunculus repens	LF
Anthriscus sylvestris	F	Geranium dissectum	O	Rubus fruticosus agg.	LF
Anthoxanthum odoratum	LF	Geum urbanum	O	Rumex obtusifolius	LF
Bellis perennis	LF	Heracleum sphondylium	F	Stachys sylvatica	LF
Bromus commutatus	O	Lamium album	LF	Stellaria holostea	F
Centaurea nigra	F	Lolium perenne	O	Taraxacum officinale agg.	O
Cerastium fontanum	O	Medicago lupulina	F	Tragopogon pratensis	O
Cirsium arvense	LF	Mercurialis perennis	LF	Trifolium pratense	F
Convolvulus arvensis	O	Plantago major	F	Urtica dioica	LA
Dactylis glomerata	LF	Poa pratensis	F	Veronica chamaedrys	LF
Festuca arundinacea	LF	Potentilla reptans	F	Vicia hirsute	LF
Festuca ovina	LA	Ranunculus acris	O	Vicia sepium	F
Festuca rubra	LA				

Boundary type and species

Hawthorn Cra.mon.(D) trimmed hedgerow with some ash (O).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Camer's Green
Grid ref. 377,124. 235,049	Target Note No. 20	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 11/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.79 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A 3-4 metre verge much populated by ruderal species but with a good complement of flowering herbs. Eastern section wetter in character.



Photo. 30



Photo. 31

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				Arable field adjacent

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	LF	Galium verum	O	Primula veris	O
Agrimonia eupatoria	R	Heracleum sphondylium	O	Ranunculus repens	LF
Agrostis capillaris	LF	Lathyrus pratensis	LF	Rubus fruticosus agg.	LF
Angelica sylvestris	R	Lolium perenne	LF	Rumex obtusifolius	LF
Anthriscus sylvestris	F	Lotus corniculatus	LF	Solanum dulcamara	O
Bromus commutatus	O	Lotus pedunculatus	LF	Taraxacum officinale	
Carex divulsa	LF	Medicago lupulina	F	agg.	O
Carex flacca	O	Myosotis arvensis	O	Trifolium pratense	O
Cirsium arvense	F	Plantago lanceolata	F	Trifolium repens	LF
Dactylis glomerata	O	Plantago major	O	Urtica dioica	LF
Epilobium hirsutum	LF	Potentilla anserina	O	Veronica chamaedrys	F
Festuca arundinacea	O	Potentilla reptans	F	Vicia sepium	F
Festuca ovina	LF				

Boundary type and species

A tall hedge mainly of Ulm.pro.(D) at its eastern end but also with Cor.ave.(O) and Ace.cam.(O). These species are more frequent together with Fra.exc. at the western end.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Rye Court roadside north
Grid ref. 377,124. 235,049	Target Note No. 21	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 11/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.51 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

Impoverished substrate with a good diversity of flowering herbs within a more or less fine grass sward.

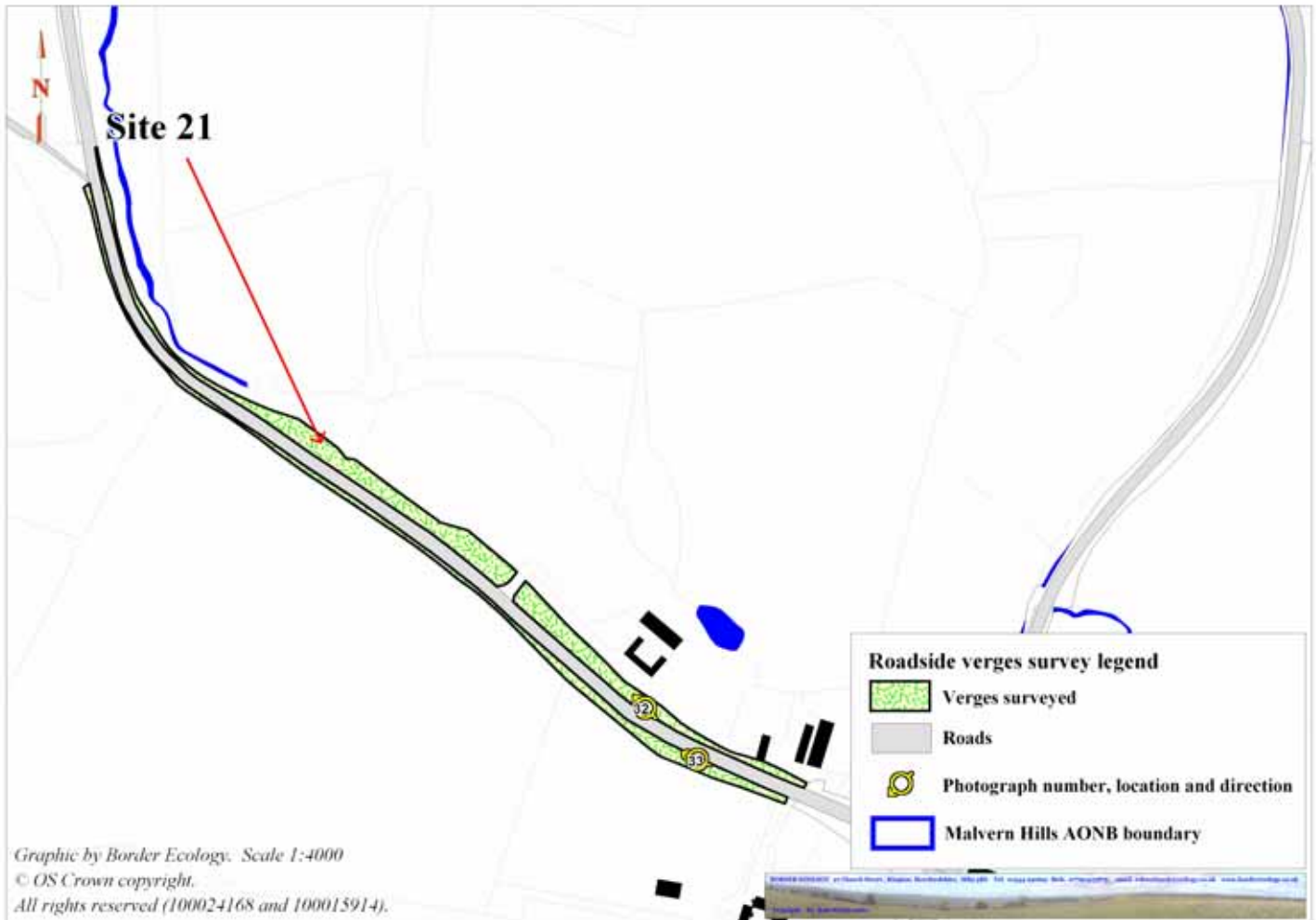


Photo. 32

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				Garden adjacent

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	F	Festuca rubra	F	Potentilla reptans	F
Anthriscus sylvestris	O	Galium aparine	O	Primula vulgaris	R
Bellis perennis	O	Galium verum	LF	Ranunculus acris	O
Brachypodium sylvaticum	LF	Glechoma hederacea	O	Ranunculus repens	O
Carex divulsa	F	Lamium album	O	Rubus fruticosus agg.	LF
Carex pendula	O	Lotus pedunculatus	LF	Stellaria graminea	O
Cerastium fontanum	O	Medicago lupulina	F	Stellaria holostea	O
Cirsium arvense	O	Mercurialis perennis	O	Tragopogon pratensis	O
Dactylis glomerata	F	Myosotis arvensis	O	Trifolium repens	LF
Elytrigia repens	O	Plantago lanceolata	F	Veronica chamaedrys	O
Festuca ovina	F	Poa pratensis	F	Vicia sativa subsp. Segetalis	LF

Boundary type and species

A short length of hedge Pru.spi.(D); continued by Ulm.pro.(A) with Cor.ave.(O); Ace.cam.(F); Trees are and old Que.rob. and small Fra.exc. Uphill section with trees and no hedge.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Rye Court roadside south
Grid ref. 377,480. 235,937	Target Note No. 22	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 11/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.49 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

Narrower 2-3 metre verge with rougher more or less shaded herbage.

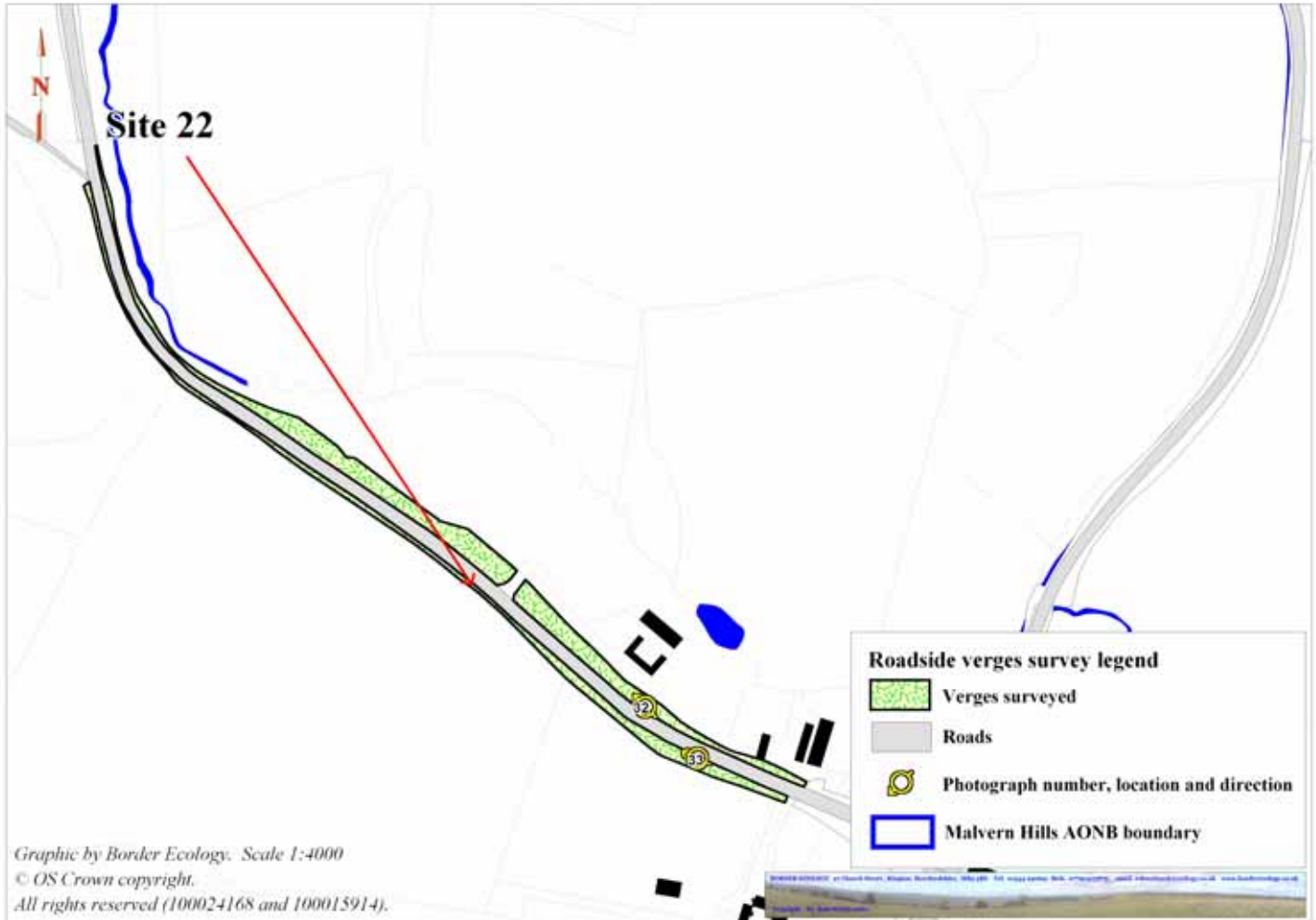


Photo. 33

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	Improved grassland adjacent			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	F	Epilobium hirsutum	LF	Potentilla reptans	LF
Agrimonia eupatoria	O	Festuca ovina	LA	Ranunculus repens	LF
Alopecurus pratensis	O	Galium aparine	LF	Rubus fruticosus agg.	LF
Alliaria petiolata	O	Glechoma hederacea	O	Rumex obtusifolius	O
Brachypodium sylvaticum	LF	Lamium album	O	Stachys sylvatica	O
Carex divulsa	LF	Medicago lupulina	F	Stellaria holostea	O
Carex hirta	LF	Mercurialis perennis	LF	Taraxacum officinale	
Cirsium arvense	LF	Myosotis arvensis	O	agg.	O
Cirsium vulgare	R	Plantago lanceolata	F	Tragopogon pratensis	LF
Clematis vitalba	LF	Poa pratensis	LF	Trifolium repens	LF
Dactylis glomerata	F			Veronica chamaedrys	O

Boundary type and species

A tall hedge of Ulm.pro.(D) with Pru.spi.(O); Cra.mon.(O); Cor.ave.(O) and Fra.exc.(O).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Hollybush Roughs
Grid ref. 376,424. 237,620	Target Note No. 23	10 km square reference SO73
Surveyor(s) Dr. Rob Widdicombe		Survey date 11/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.07 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

An isolated verge to 3 metres wide between road and lay-by. Invasion by bracken but good communities of hedge-bank flowering species.

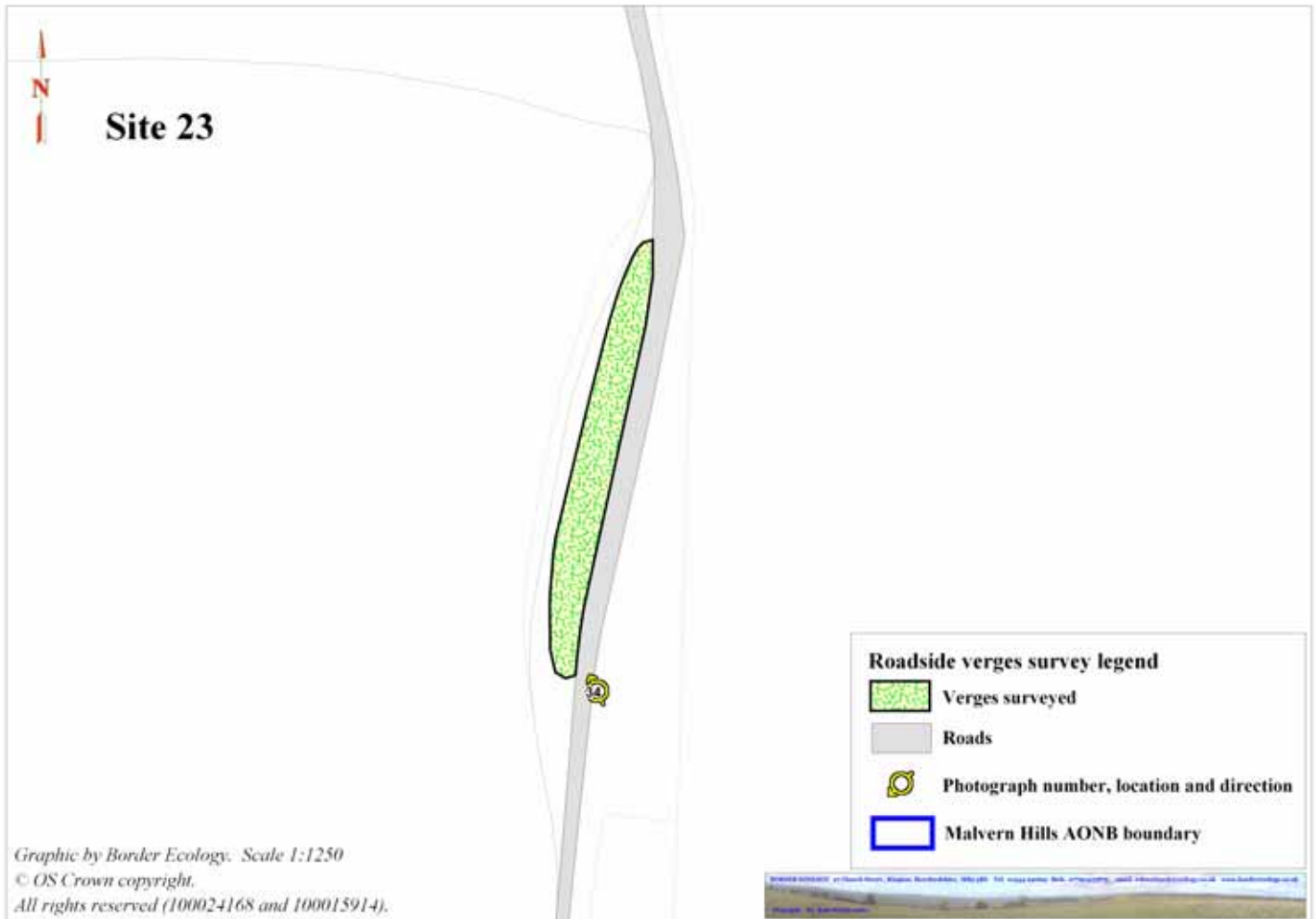


Photo. 34

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
<i>Broadleaved woodland adjacent</i>				
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Anthoxanthum odoratum	LA	Heracleum sphondylium	O	Ranunculus repens	LF
Cardamine pratensis	O	Hyacinthoides non-scripta	F	Rubus fruticosus agg.	LF
Cerastium fontanum	LF	Lapsana communis	O	Rumex acetosa	O
Cirsium arvense	F	Lamium album		Rumex obtusifolius	LF
Conopodium majus	LF	Lolium perenne	LF	Stellaria holostea	LF
Dactylis glomerata	F	Plantago lanceolata	O	Taraxacum officinale agg.	F
Festuca ovina	LF	Poa pratensis	F	Tragopogon pratensis	LF
Fragaria vesca	O	Potentilla reptans	F	Urtica dioica	LF
Galium aparine	O	Pteridium aquilinum	LA	Veronica chamaedrys	O
Galium verum	LF				
Geum urbanum	O				

Boundary type and species

No boundary except parking area and road but within a wooded area.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Mill Lane, Colwall
Grid ref. 373,966. 242,360	Target Note No. 24	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 11/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.25 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A narrow lush verge broadening out to its western end 8-10 metres.



Photo. 35



Photo. 36

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Agrostis capillaries	LF	Festuca ovina	LA	Poa pratensis	O
Alopecurus pratensis	F	Festuca rubra	LF	Ranunculus repens	LF
Alliaria petiolata	F	Filipendula ulmaria	LF	Rubus fruticosus agg.	LF
Anisantha sterilis	LF	Glechoma hederacea	F	Rumex acetosa	F
Anthriscus sylvestris	LA	Heracleum sphondylium	F	Rumex obtusifolius	LF
Carex divulsa	O	Hypericum perforatum	F	Trifolium pratense	F
Centaurea nigra	O	Lapsana communis	LF	Urtica dioica	LF
Cirsium arvense	LF	Lamium album	LF	Veronica chamaedrys	LF
Cirsium vulgare	O	Lathyrus pratensis	LA	Vicia hirsute	O
Convolvulus arvensis	O	Myosotis arvensis	O	Vicia sativa subsp.	
Dactylis glomerata	LF	Plantago lanceolata	F	Segetalis	F
Epilobium hirsutum	LF			Vicia sepium	LF

Boundary type and species

Mixed hedgerow of Cra. mon.(A); Que. rob.(O); Fra.exc.(O); Ace. cam.(O) with some honeysuckle Lon. per.(O) and ivy Hed. hel.(O).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Mill Lane, Colwall
Grid ref. 373,967. 242,352	Target Note No. 25	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 11/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.23 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

Similar floristically to opposite site (24) but wider at 2-3 metres.

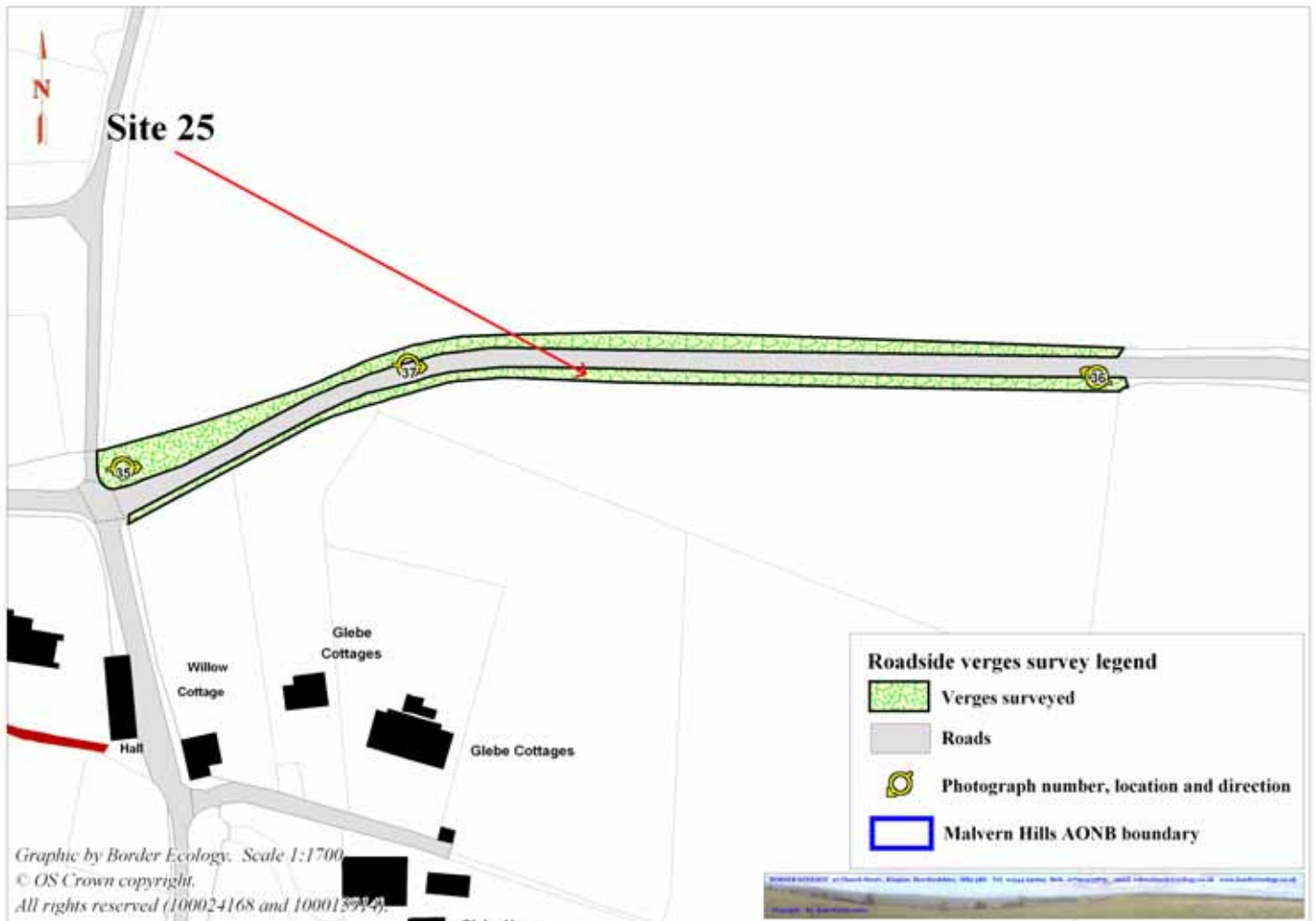


Photo. 37

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)				
Achillea millefolium F Alopecurus pratensis LF Ajuga reptans O Alliaria petiolata F Anthriscus sylvestris LF Bromus commutatus O Carex divulsa O Crucjata laevipes LF Dactylis glomerata LF Equisetum arvense LA	Festuca ovina LF Filipendula ulmaria F Galium aparine O Glechoma hederacea O Heracleum sphondylium O Crucjata laevipes O Mercurialis perennis LF Myosotis arvensis LF Plantago lanceolata LF	Plantago major O Poa pratensis F Potentilla anserina O Ranunculus repens F Rumex acetosa O Vicia sativa subsp. segetalis F Vicia sepium F		
Boundary type and species <i>Mixed hedge of Cra.mon.(D); Cor.ave.(LF); Que.rob(O); Aes. hip.(R)..</i>				
Other species of interest				

Survey Contract Malvern Hills AONB Road Verges		Site name Grittlesend
Grid ref. 372,749. 249,453	Target Note No. 26	10 km square reference SO74
Surveyor(s) Dr. Rob Widdicombe		Survey date 11/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.7 km
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A moderately diverse community of flowering herb species flanking the eastern side of the road up to 4 metres a gradual incline to fence.



Photo. 38

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Alliaria petiolata	F	Geranium dissectum	O	Ranunculus repens	O
Anisantha sterilis	LF	Geranium robertianum	O	Rubus fruticosus agg.	LF
Anthriscus sylvestris	LA	Geum urbanum	LF	Rumex acetosa	O
Anthoxanthum odoratum	F	Glechoma hederacea	O	Silene dioica	O
Armoracia rusticana	R	Heracleum sphondylium	LF	Stachys sylvatica	O
Chenopodium album	LF	Lapsana communis	O	Stellaria holostea	LF
Chamerion angustifolium	O	Lathyrus pratensis	F	Taraxacum officinale	
Cirsium arvense	O	Leontodon autumnalis	R	agg.	O
Cirsium vulgare	O	Leucanthemum vulgare	LF	Tragopogon pratensis	F
Convolvulus arvensis	O	Lolium perenne	O	Trifolium pratense	F
Dactylis glomerata	F	Lotus corniculatus	LF	Urtica dioica	LF
Elytrigia repens	LF	Myosotis arvensis	LF	Veronica chamaedrys	O
Festuca arundinacea	O	Plantago lanceolata	F	Vicia hirsuta	LF
Festuca ovina	LA	Poa pratensis	F	Vicia sepium	F
Festuca rubra	F	Potentilla anserina	R	Vicia tetrasperma	R
Galium aparine	LF	Potentilla reptans	O		

Boundary type and species

Fence overgrown by brambles.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Stocks Road, Alfricks Pound
Grid ref. 374,765. 252,175	Target Note No. 27	10 km square reference SO75
Surveyor(s) Dr. Rob Widdicombe		Survey date 19/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.32 km
County Worcestershire	L.A. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A hedgebank 2-3 metres with narrow roadside verge to one metre composed of a fine sward and good flowering herb community including hoary plantain.



Photo. 39

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Aegopodium podagraria	F	Geum urbanum	F	Rubus fruticosus agg.	LF
Alliaria petiolata	F	Glechoma hederacea	O	Rumex acetosa	O
Anisantha sterilis	LF	Heracleum sphondylium	F	Rumex obtusifolius	LF
Anthriscus sylvestris	O	Hypericum perforatum	O	Silene dioica	O
Brachypodium sylvaticum	F	Lapsana communis	O	Stachys sylvatica	O
Centaurea nigra	F	Lathyrus pratensis	O	Stellaria holostea	F
Cirsium arvense	LF	Leucanthemum vulgare	LF	Taraxacum officinale	
Clematis vitalba	LF	Medicago lupulina	F	agg.	O
Conopodium majus	O	Mentha spicata	R	Tamus communis	
Dactylis glomerata	F	Mercurialis perennis	LA	Tragopogon pratensis	O
Festuca arundinacea	LF	Plantago lanceolata	F	Urtica dioica	O
Festuca ovina	F	Plantago media	R	Veronica chamaedrys	O
Festuca rubra	F	Poa pratensis	F	Vicia sativa subsp.	
Fragaria vesca	O	Potentilla reptans	F	Segetalis	O
Galium aparine	LF	Primula veris	O	Vicia sepium	O
Galium mollugo	LF	Ranunculus acris	O	Viola riviniana	LF
Galium verum	LF	Ranunculus repens	LF		

Boundary type and species

A low, mixed hedge of Cra.mon.(F); Ace.cam.(F); Euo.eur.(O); Cor.san.(O); Ros.can.(O).

Other species of interest

Dunnoek singing in hedgerow.

Survey Contract Malvern Hills AONB Road Verges		Site name Stocks Road, Alfricks Pound
Grid ref. 374,517 . 252,157	Target Note No. 28	10 km square reference SO75
Surveyor(s) Dr. Rob Widdicombe		Survey date 19/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.10 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A wide bank 4-5 metres skirted roadside with a narrow verge to one metre. Mixture of grassland species of flowering herbs with fine grasses.



Photo. 40

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	F	Geranium dissectum	O	Rumex acetosa	O
Alopecurus pratensis	F	Geranium robertianum	O	Stellaria holostea	O
Ajuga reptans	O	Geum urbanum	O	Taraxacum officinale	
Anthriscus sylvestris	F	Heracleum sphondylium	F	agg.	O
Centaurea nigra	F	Lamium album	O	Urtica dioica	LF
Chamerion angustifolium	O	Lathyrus pratensis	O	Veronica chamaedrys	F
Cirsium vulgare	R	Leucanthemum vulgare	O	Vicia hirsuta	O
Dactylis glomerata	F	Myosotis arvensis	O	Vicia sativa subsp.	
Festuca arundinacea	O	Plantago lanceolata	F	segetalis	O
Festuca ovina	LA	Poa pratensis	F	Vicia sepium	O
Festuca rubra	F	Potentilla reptans	LF		
Galium aparine	O	Primula veris	LF		
Galium mollugo	LF	Ranunculus repens	O		

Boundary type and species

Fenced.

Other species of interest

Dunnock singing in hedgerow.

Survey Contract Malvern Hills AONB Road Verges		Site name Ravenhill
Grid ref. 374,038 . 253,905	Target Note No. 29	10 km square reference SO75
Surveyor(s) Dr. Rob Widdicombe		Survey date 20/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.19 km
County Worcestershire	LA. Worcestershire C.C	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

Moderately rich, crescent shaped, verge which is wet in character with a wide section to the north and petering out to a drainage ditch to the south..



Photo. 41



Photo. 42

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
				Ornamental lake

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	LF	Cirsium arvense	O	Potentilla reptans	LF
Aegopodium podagraria	O	Cirsium palustre	O	Ranunculus repens	F
Agrostis capillaris	F	Cirsium vulgare	O	Rumex obtusifolius	O
Alopecurus pratensis	F	Convolvulus arvensis	O	Silene dioica	O
Ajuga reptans	LF	Dactylis glomerata	F	Stachys sylvatica	O
Angelica sylvestris	O	Digitalis purpurea	O	Stellaria holostea	O
Anisantha sterilis	LF	Dryopteris filix-mas	R	Symphytum officinale	O
Arctium minus	O	Equisetum arvense	LF	Tragopogon pratensis	O
Bellis perennis	O	Festuca arundinacea	LF	Urtica dioica	LF
Bromus commutatus	O	Festuca rubra	LA	Vicia sativa subsp.	
Carex flacca	O	Geranium robertianum	O	Segetalis	F
Centaurea nigra	LF	Poa trivialis	LF		
Cerastium fontanum	O	Potentilla anserina	LF		

Boundary type and species

Fenced.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Tundridge	
Grid ref. 373,471. 250,968	Target Note No. 30		10 km square reference SO75
Surveyor(s) Dr. Rob Widdicombe		Survey date 20/05/2011	
Conservation designation None		Designation Reference N/A	
Other designation		Verge length 0.14 km	
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire	
Habitat(s) included	Name	JNCC Code	
Dominant			
Other			

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A rutted verge which borders a dry calcareous west facing bank populated with thin growth of calcareous herbs, fine grasses and sedges.



Photo. 43

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Unimproved grassland/scrub field adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	LF	Festuca ovina	LA	Medicago lupulina	LF
Allium vineale	R	Festuca rubra	F	Myosotis arvensis	LF
Agrimonia eupatoria	O	Galium aparine	LF	Petroselinum segetum	O
Agrostis capillaris	F	Galium verum	O	Polygala vulgaris	O
Alliaria petiolata	O	Geranium robertianum	O	Poa pratensis	F
Anthriscus sylvestris	O	Glechoma hederacea	LF	Primula veris	LF
Brachypodium sylvaticum	LF	Hedera helix	LF	Ranunculus repens	O
Bromus commutatus	O	Heracleum sphondylium	O	Rubus fruticosus agg.	F
Carex	F	Hypericum perforatum	F	Stellaria holostea	O
Centaurea nigra	F	Lathyrus pratensis	LF	Tragopogon pratensis	LF
Clematis vitalba	O	Leontodon autumnalis	LA	Veronica persica	O
Dactylis glomerata	LF	Leucanthemum vulgare	O	Vicia hirsuta	O
Daucus carota	O	Lotus corniculatus	LF	Vicia sepium	O
Festuca arundinacea	O				

Boundary type and species

Scrub growth of ash, hawthorn, field maple and privet with dog rose.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Kingshill
Grid ref. 375,694. 251,496	Target Note No. 31	10 km square reference SO75
Surveyor(s) Dr. Rob Widdicombe		Survey date 26/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.16 km
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A narrow stretch of verge 1-2 metres with moderate floristic interest.



Photo. 44



Photo. 45

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Improved grassland field adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	O	Festuca rubra	LF	Lotus pedunculatus	O
Alopecurus pratensis	LF	Fragaria vesca	LF	Mercurialis perennis	LF
Alliaria petiolata	O	Galium aparine	O	Primula vulgaris	O
Anisantha sterilis	o	Galium mollugo	LF	Ranunculus repens	F
Anthriscus sylvestris	F	Galium verum	O	Rumex obtusifolius	O
Arrhenatherum elatius	O	Geranium robertianum	LF	Stachys sylvatica	LF
Brachypodium sylvaticum	O	Geum urbanum	O	Taraxacum officinale	
Centaurea nigra	O	Glechoma hederacea	O	agg.	F
Cirsium arvense	O	Heracleum sphondylium	LF	Tamus communis	F
Convolvulus arvensis	O	Lapsana communis	LF	Trifolium pratense	LF
Dactylis glomerata	O	Lathyrus pratensis	LF	Urtica dioica	O
Festuca arundinacea	LF	Leontodon autumnalis	O	Veronica chamaedrys	O
Festuca ovina	LF	Lolium perenne	LF	Vicia sepium	F
				Viola riviniana	O

Boundary type and species

Mixed hedge of Cor.ave.(A); Ulm.pro.(F); Ace.cam.(F)Pru.spi.(O); with Hed.hel. (LF); Tam.com.(O); Rub.fru.(F).

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name The Knapp	
Grid ref. 375,164. 252,095	Target Note No. 32	10 km square reference SO75	
Surveyor(s) Dr. Rob Widdicombe		Survey date 20/05/2011	
Conservation designation None		Designation Reference N/A	
Other designation		Verge length 0.09 km	
County Worcestershire	LA. Worcestershire C.C.	Vice county no. 37 – Worcestershire	
Habitat(s) included	Name	JNCC Code	
Dominant			
Other			

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A discrete fragment of the adjacent field with moderate floristic interest.

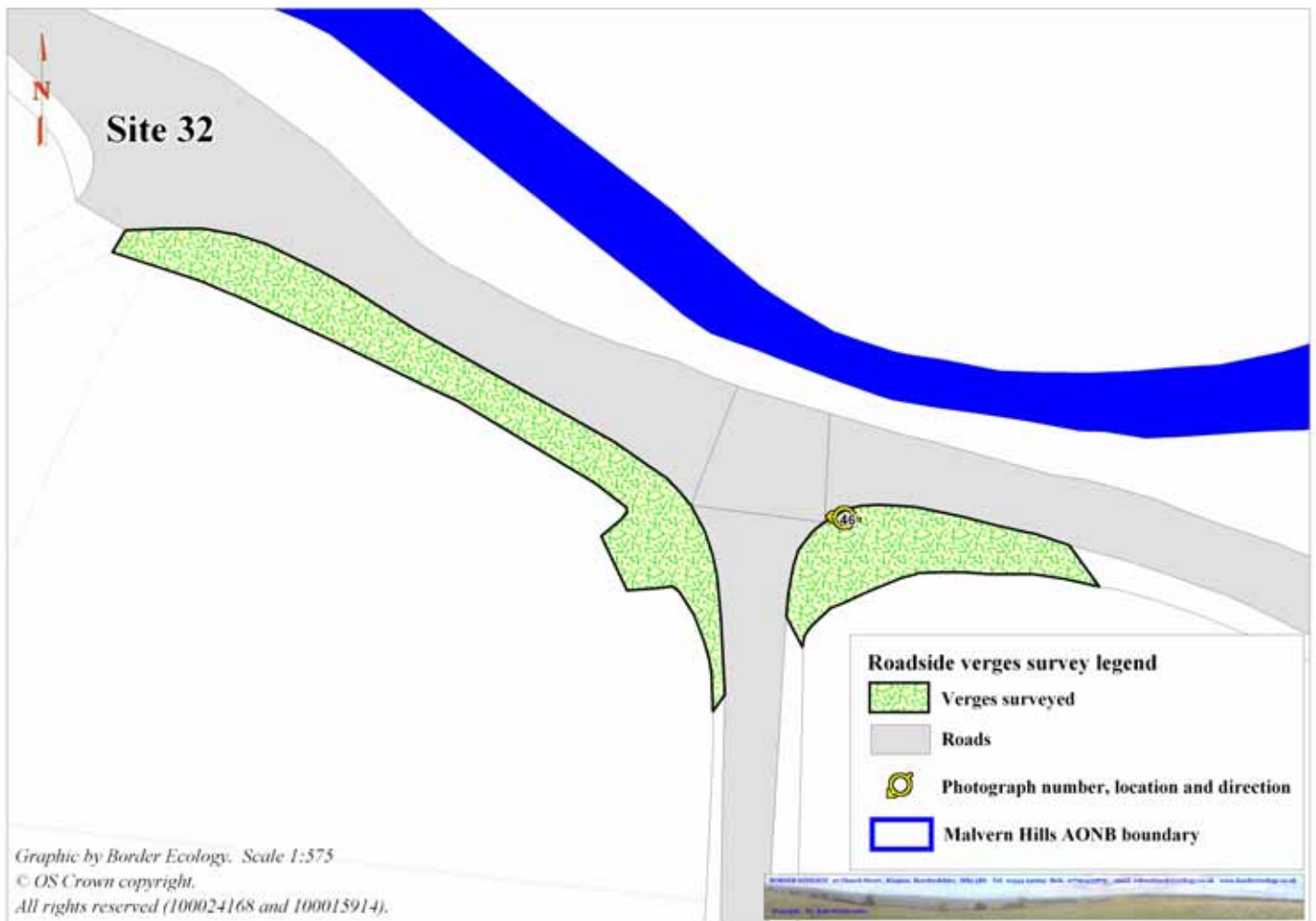


Photo. 46

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Unimproved grassland field adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Achillea millefolium	LA	Fragaria vesca	O	Rumex obtusifolius	O
Aegopodium podagraria	LF	Galium aparine	LF	Scrophularia nodosa	O
Alopecurus pratensis	O	Galium verum	LF	Silene dioica	O
Alliaria petiolata	O	Geranium pyrenaicum	LA	Stachys sylvatica	LF
Arrhenatherum elatius	LF	Geum urbanum	F	Stellaria holostea	O
Centaurea nigra	LF	Cruciata laevipes	O	Taraxacum officinale agg.	LA
Cerastium fontanum	O	Lamium album	O	Tragopogon pratensis	O
Cirsium arvense	LF	Lathyrus pratensis	LF	Trifolium dubium	LF
Cruciata laevipes	LF	Leucanthemum vulgare	O	Trifolium pratense	LF
Convolvulus arvensis	O	Lolium perenne	LF	Urtica dioica	LF
Dactylis glomerata	F	Plantago lanceolata	LF	Veronica chamaedrys	LF
Elytrigia repens	LF	Poa trivialis	LF	Vicia hirsuta	O
Equisetum arvense	O	Potentilla reptans	O	Vicia sepium	LF
Festuca ovina	LF	Ranunculus repens	O		
Festuca rubra	LF	Rubus fruticosus agg.	LA		
Filipendula ulmaria	LF				

Boundary type and species

Fenced.

Other species of interest

Survey Contract Malvern Hills AONB Road Verges		Site name Primrose Hill
Grid ref. 374,157. 250,825	Target Note No. 33	10 km square reference SO75
Surveyor(s) Dr. Rob Widdicombe		Survey date 26/05/2011
Conservation designation None		Designation Reference N/A
Other designation		Verge length 0.14 km
County Worcestershire	LA. Worcestershire C.C	Vice county no. 37 – Worcestershire
Habitat(s) included	Name	JNCC Code
Dominant		
Other		

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A short stretch of moderately flower rich verge.



Photo. 47

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	<i>Semi-improved grassland field adjacent</i>			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous
Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)				
<i>Achillea millefolium</i> LF <i>Agrimonia eupatoria</i> O <i>Alliaria petiolata</i> O <i>Anthriscus sylvestris</i> O <i>Arum maculatum</i> LF <i>Brachypodium sylvaticum</i> F <i>Centaurea nigra</i> O <i>Chenopodium album</i> O <i>Cirsium arvense</i> O <i>Clematis vitalba</i> O <i>Cynosurus cristatus</i> F	<i>Festuca ovina</i> LA <i>Geum urbanum</i> O <i>Heracleum sphondylium</i> O <i>Lathyrus pratensis</i> LF <i>Mercurialis perennis</i> LF <i>Myosotis arvensis</i> LF <i>Plantago lanceolata</i> F <i>Poa pratensis</i> LF <i>Potentilla reptans</i> LA <i>Primula veris</i> LF	<i>Ranunculus repens</i> O <i>Rosa canina</i> O <i>Rumex obtusifolius</i> R <i>Stachys sylvatica</i> O <i>Urtica dioica</i> LF <i>Veronica chamaedrys</i> O <i>Vicia hirsuta</i> O <i>Vicia sativa</i> subsp. <i>segetalis</i> O <i>Vicia sepium</i> F <i>Viola hirta</i> O		
Boundary type and species <i>Mixed hedgerow of Fra. Exc.(F); Cra. mon.(F) with some Sam. nig.(O).</i>				
Other species of interest				

Survey Contract Malvern Hills AONB Road Verges		Site name Merryhill Common	
Grid ref. 374,939. 249,200	Target Note No. 34	10 km square reference SO74	
Surveyor(s) Dr. Rob Widdicombe		Survey date 26/05/2011	
Conservation designation None		Designation Reference N/A	
Other designation		Verge length 0.14 km	
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire	
Habitat(s) included	Name	JNCC Code	
Dominant			
Other			

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A shady bank verge 2-3 metres width with good floristic interest of woodland field layer plant species.



Photo. 48

Key words by habitat (include management, damage, etc)																																																																
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire																																																												
<i>Ancient woodland</i>																																																																
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous																																																												
Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)																																																																
<table border="0"> <tr><td>Ajuga reptans</td><td>O</td></tr> <tr><td>Anemone nemorosa</td><td>F</td></tr> <tr><td>Anthriscus sylvestris</td><td>O</td></tr> <tr><td>Brachypodium sylvaticum</td><td>F</td></tr> <tr><td>Centaurea nigra</td><td>O</td></tr> <tr><td>Chenopodium album</td><td>LF</td></tr> <tr><td>Dactylis glomerata</td><td>O</td></tr> <tr><td>Festuca arundinacea</td><td>O</td></tr> <tr><td>Festuca ovina</td><td>LA</td></tr> <tr><td>Festuca rubra</td><td>LF</td></tr> </table>	Ajuga reptans	O	Anemone nemorosa	F	Anthriscus sylvestris	O	Brachypodium sylvaticum	F	Centaurea nigra	O	Chenopodium album	LF	Dactylis glomerata	O	Festuca arundinacea	O	Festuca ovina	LA	Festuca rubra	LF	<table border="0"> <tr><td>Fragaria vesca</td><td>F</td></tr> <tr><td>Galium odoratum</td><td>LF</td></tr> <tr><td>Heracleum sphondylium</td><td>O</td></tr> <tr><td>Lapsana communis</td><td>O</td></tr> <tr><td>Lathyrus pratensis</td><td>O</td></tr> <tr><td>Luzula campestris</td><td>O</td></tr> <tr><td>Medicago lupulina</td><td>O</td></tr> <tr><td>Melampyrum pratense</td><td>A</td></tr> <tr><td>Melica uniflora</td><td>LF</td></tr> <tr><td>Mercurialis perennis</td><td>LF</td></tr> </table>	Fragaria vesca	F	Galium odoratum	LF	Heracleum sphondylium	O	Lapsana communis	O	Lathyrus pratensis	O	Luzula campestris	O	Medicago lupulina	O	Melampyrum pratense	A	Melica uniflora	LF	Mercurialis perennis	LF	<table border="0"> <tr><td>Plantago major</td><td>O</td></tr> <tr><td>Rosa canina</td><td>F</td></tr> <tr><td>Rumex obtusifolius</td><td>O</td></tr> <tr><td>Stachys officinalis</td><td>F</td></tr> <tr><td>Stachys sylvatica</td><td>O</td></tr> <tr><td>Stellaria holostea</td><td>O</td></tr> <tr><td>Taraxacum officinale</td><td></td></tr> <tr><td>agg.</td><td>LF</td></tr> <tr><td>Tamus communis</td><td>LF</td></tr> <tr><td>Veronica chamaedrys</td><td>O</td></tr> <tr><td>Vicia sepium</td><td>F</td></tr> </table>	Plantago major	O	Rosa canina	F	Rumex obtusifolius	O	Stachys officinalis	F	Stachys sylvatica	O	Stellaria holostea	O	Taraxacum officinale		agg.	LF	Tamus communis	LF	Veronica chamaedrys	O	Vicia sepium	F
Ajuga reptans	O																																																															
Anemone nemorosa	F																																																															
Anthriscus sylvestris	O																																																															
Brachypodium sylvaticum	F																																																															
Centaurea nigra	O																																																															
Chenopodium album	LF																																																															
Dactylis glomerata	O																																																															
Festuca arundinacea	O																																																															
Festuca ovina	LA																																																															
Festuca rubra	LF																																																															
Fragaria vesca	F																																																															
Galium odoratum	LF																																																															
Heracleum sphondylium	O																																																															
Lapsana communis	O																																																															
Lathyrus pratensis	O																																																															
Luzula campestris	O																																																															
Medicago lupulina	O																																																															
Melampyrum pratense	A																																																															
Melica uniflora	LF																																																															
Mercurialis perennis	LF																																																															
Plantago major	O																																																															
Rosa canina	F																																																															
Rumex obtusifolius	O																																																															
Stachys officinalis	F																																																															
Stachys sylvatica	O																																																															
Stellaria holostea	O																																																															
Taraxacum officinale																																																																
agg.	LF																																																															
Tamus communis	LF																																																															
Veronica chamaedrys	O																																																															
Vicia sepium	F																																																															
Boundary type and species <i>Bounded by ancient woodland with profuse field layer of cow wheat and associated species. Trees are Eng. oak with a hedge of Cor. san. (O); Ace. cam.(F); Que. rob.(F); Fra. exc.(O); with Tam.com.(O) and Ros. Can. (O).</i>																																																																
Other species of interest																																																																

Survey Contract Malvern Hills AONB Road Verges		Site name Gloucester Road, Ledbury	
Grid ref. 371,593. 236,589	Target Note No. 35	10 km square reference SO73	
Surveyor(s) Dr. Rob Widdicombe		Survey date 26/05/2011	
Conservation designation None		Designation Reference N/A	
Other designation		Verge length 0.28 km	
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire	
Habitat(s) included	Name	JNCC Code	
Dominant			
Other			

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

A dry and elevated barren substrate supporting a wildflower rich plant communities.



Photo. 49

Key words by habitat (include management, damage, etc)					
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire	
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous	
				Arable field adjacent	
Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)					
Ajuga reptans	O	Hypericum perforatum	LF	Primula veris	O
Arrhenatherum elatius	O	Lathyrus latifolius	O	Ranunculus acris	F
Clematis vitalba	F	Lathyrus pratensis	O	Sanguisorba minor	F
Convolvulus arvensis	LF	Leontodon hispidus	F	Symphytum officinale	R
Dactylis glomerata	F	Leucanthemum vulgare	F	Trifolium pratense	LF
Festuca ovina	A	Medicago lupulina	LF	Trifolium repens	O
Festuca rubra	F	Plantago lanceolata	F	Vicia sativa subsp. segetalis	F
Geranium robertianum	O	Poa pratensis	F	Vicia sepium	F
Heracleum sphondylium	LF				
Boundary type and species					
<i>Elevated planting of hawthorn Cra. Mon. (D). with some hazel Cor. Ave.(F) and dogwood Cor. San.(F).</i>					
Other species of interest					

Survey Contract Malvern Hills AONB Road Verges		Site name Gloucester Road, Ledbury	
Grid ref. 371,561. 236,697	Target Note No. 36	10 km square reference SO73	
Surveyor(s) Dr. Rob Widdicombe		Survey date 26/05/2011	
Conservation designation None		Designation Reference N/A	
Other designation		Verge length 0.25 km	
County Herefordshire	LA. Herefordshire Council	Vice county no. 36 – Herefordshire	
Habitat(s) included	Name	JNCC Code	
Dominant			
Other			

Target note (including site maps, photograph thumbnails and other supplementary source(s) of information, if used)

As opposite - a dry and barren soil with a flower rich plant community..



Photo. 50

Key words by habitat (include management, damage, etc)				
A Woodland	B Grassland	C Tall herb/fern	D Heathland	E Mire
	Improved grassland field adjacent			
F Swamp	G Open Water	H Coastland	I Rock etc.	J Miscellaneous

Species recorded with DAFOR abundance: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare. (L in association with abundance indicates 'Locally' – a measure of dispersion)

Ajuga reptans	O		
Arrhenatherum elatius	LF		
Brachypodium sylvaticum	LA		
Dactylis glomerata	F		
Festuca ovina	F		
Festuca rubra	F		
Lathyrus latifolius	LF		
Lathyrus pratensis	O		
Leucanthemum vulgare	F		
Medicago lupulina	F		
Ranunculus acris	F		
Rosa canina	LF		
Sanguisorba minor	F		
Sonchus oleraceus	LF		
Trifolium pratense	F		
Vicia hirsuta	O		
Vicia sativa subsp. segetalis	F		

Boundary type and species

Elevated planting of mixed trees and shrubs including Ace. cam.(F); Cra. mon.(F); Fra.exc.(F).; Cor.san.(F); with buddleija Bud. dav.(O) and goat willow Sal. cap.(O).

Other species of interest

APPENDIX III

SITE MANAGEMENT SPREADSHEET

Site number	Site quality [†]	Management	Site number	Site quality [†]	Management	Site number	Site quality [†]	Management	Site number	Site quality [†]	Management
1	LM, B	iv	10	LM, C	iii	19	LM, C	iv	28	LM, B	i
2	LM, B	iii	11	LM, B	i	20	LM, C	iv	29	LM, B	iv
3	LM, B	iv	12	LM, C	iv	21	LM, B	i	30	LCG, A	i
4	SIG, A	i	13	LM, B	iii	22	LM, B	i	31	LM, B	i
5	SIG, A	i	14	LM, C	iv	23	LM, A	iii	32	LM, B	iii
6	HB, A	i	15	LM, C	iv	24	LM, B	iv	33	LM, B	iii
7	LM, B	i	16	LM, C	iv	25	LM, B	iv	34	LM, A	i
8	LM, C	i	17	LM, A	iii	26	LM, A	i	35	LM, B	i
9	LM, A	iii	18	LM, B	iv	27	LCG, A	i	36	LM, B	i

Site Management*

In cases where sites are species rich and ruderal weed growth is minimal (condition A) current management has maintained diversity. However, in most cases (condition B and C), modified timing and cutting regimes should improve the diversity of flowering herbs and, in turn, enhance ecological value. The recommendations in the above table relate to the following management regimes.

- i. Two cuts per year the first end-July to August depending upon growth*.
- ii. Cut from end-May followed by 3-4 weekly cut to reduce scrub growth.
- iii. Two cuts per year, first cut within last two weeks in June (spring flowers)*.
- iv. Two cuts per year, the first a high 15-20cm cut in April, then from July*.

[†]Site Quality

This is a combination assessment of site type and ruderal weed invasion based upon the criteria used for habitat and condition assessment laid down in the HLS Farm Environmental Plan Features Manual (Defra 2010). The area of most sites falls below 0.25 ha and would officially exclude their mapping as BAP habitat. However, the codes in the above table represent the following BAP habitats and condition.

LM = Lowland Meadow

LCG = Lowland Calcareous Grassland

SIG = Semi-improved Grassland (species rich)

HB = Hedge Bank (non-BAP habitat)

A = Site of good floristic quality with low abundance of ruderal weed invasion (nettles, brambles, dock etc.)

B = Good floristic diversity but with up to 30% ruderal weed cover..

C = Floristic content of interest but in need of restoration to combat significant ruderal weed invasions.

Note: Sites 9, 17, 23, 26, 27, 30, and 34 are of the best quality and would be candidates for Roadside Nature Reserve Status. Other sites within the B category may also improve with management and could also be included. Some sites surveyed in Herefordshire may already be designated as Roadside Nature Reserves but their status is unknown.

* Timing of second cuts as work programme allows but preferably no earlier than end-July.

APPENDIX IV

SURVEY DATA SPREADSHEET

