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303 Bridgewater Place  
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Warrington  
WA3 6XF

ERAP (Consultant Ecologists) Ltd ref: 2018-046  
Ribble Valley Borough Council ref: 3/2014/0597

2<sup>nd</sup> March 2018

Dear Chris,

**RE: Waddow View, Waddington Road, Clitheroe**

Please find an update of the ecological surveys completed at the above site.

An updated ecological survey and assessment was undertaken on 22<sup>nd</sup> February 2018 by Victoria Burrows B.Sc. (Hons) M.Sc. CEnv MCIEEM and Christopher Wilkinson Fd.Sc. The weather conditions during the survey were dry and overcast with light air (Beaufort Scale 1), 3°C at 10:00, rising to 5°C at 12 noon.

The scope of ecological surveys undertaken in February 2018 comprised:

- a. Extended Phase 1 Habitat Survey including a description and plan;
- b. Survey of all habitats with reference to the National Vegetation Classification (NVC);
- c. Search for invasive species such as Japanese Knotweed;
- d. The survey and assessment of the site and surrounds for protected species such as badger;
- e. Otter and water vole survey and assessment; and
- f. An assessment of the habitats suitability for use by breeding birds.

The survey data collected during the Updated Phase 1 Habitat Survey and Assessment will inform the preparation of documents to satisfy the requirements of Conditions 18 and 22. The information provided by the Updated Phase 1 Habitat Survey and Assessment will facilitate the guidance provided by ERAP (Ecological Consultants) Ltd in relation to Conditions 14 and 21.

For reference the species lists for the improved and poor semi-improved grassland and the hedgerows within the site are appended at **Tables 1 to 3**. The Updated Phase 1 Habitat and Vegetation Map is appended at **Figure 1**.

The finalised Ecological Survey and Assessment report will be issued as soon as possible.

Yours sincerely,



Amy Sharples B.Sc. (Hons) M.Sc. GradCIEEM  
Ecologist

**Table 1: Plant Species List for Improved & Poor Semi Improved Grassland**

Scientific Name	Common Name	DAFOR <sup>1</sup>	Cover
<i>Cerastium fontanum</i>	Common Mouse-ear	O	<1%
<i>Cirsium vulgare</i>	Spear Thistle	R	<1%
<i>Glyceria fluitans</i>	Floating Sweet-grass	VLA	<1%
<i>Holcus lanatus</i>	Yorkshire-fog	F/LA*	5%
<i>Juncus effusus</i>	Soft-rush	VLA	<1%
<i>Lolium perenne</i>	Perennial Rye-grass	A*	90%
<i>Poa annua</i>	Annual Meadow-grass	LF	1%
<i>Ranunculus repens</i>	Creeping Buttercup	F	5%
<i>Rumex obtusifolius</i>	Broad-leaved Dock	O	<1%
<i>Taraxacum officinale</i> agg.	Dandelion	O	<1%

<sup>1</sup>Key to DAFOR: D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare, V=Very, L=Local and \*denotes a constant species

**Table 2: Plant Species List for Hedgerows 1 to 4**

Scientific Name	Common Name	Hedgerow 1		Hedgerow 2		Hedgerow 3		Hedgerow 4	
		DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover
<b>Woody Species</b>									
<i>Acer pseudoplatanus</i>	Sycamore	VLF	2%	-	-	-	-	-	-
<i>Corylus avellana</i>	Hazel	O	1%	-	-	-	-	LF	5%
<i>Crataegus monogyna</i>	Hawthorn	A	60%	A*	40%	A*	70%	A*	70%
<i>Fraxinus excelsior</i>	Ash	O	1%	R	2%	F	5%	LF	5%
<i>Ilex aquifolium</i>	Holly	LA	5%	R	1%	R	<1%	VLA	1%
<i>Prunus spinosa</i>	Blackthorn	A	20%	A*	40%	LA*	20%	A/F*	10%
<i>Rosa canina</i>	Dog-rose	-	-	-	-	-	-	LF	5%
<i>Sambucus nigra</i>	Elder	O	1%	O	5%	F	5%	LF	5%
<b>Herb Species</b>									
<i>Alliaria petiolata</i>	Garlic Mustard	-	-	-	-	-	-	VLA	<1%
<i>Anthriscus sylvestris</i>	Cow Parsley	F*	10%	O	5%	LA	5%	F	5%
<i>Arum maculatum</i>	Lords-and-Ladies	R	<1%	O	2%	O	<1%	O	<1%
<i>Bellis perennis</i>	Daisy	-	-	-	-	R	1%	-	-
<i>Carex pendula</i>	Pendulous Sedge	-	-	-	-	VLA	1%	R	<1%
<i>Cirsium arvense</i>	Creeping Thistle	R	<1%	-	-	-	-	-	-
<i>Dactylis glomerata</i>	Cock's-foot	F*	5%	-	-	LF	5%	F	5%
<i>Dryopteris dilatata</i>	Broad Buckler-fern	-	-	-	-	R	<1%	-	-
<i>Dryopteris filix-mas</i>	Male-fern	-	-	-	-	O	<1%	-	-
<i>Epilobium hirsutum</i>	Great Willowherb	-	-	-	-	-	-	VLF	<1%
<i>Epilobium montanum</i>	Broad-leaved Willowherb	R	<1%	-	-	-	-	-	-
<i>Festuca rubra</i>	Red Fescue	VLA	1%	-	-	VLA	<1%	VA	<1%
<i>Ficaria verna</i>	Lesser Celandine	VLA	1%	-	-	VLA	<1%	VLA	<1%
<i>Filipendula ulmaria</i>	Meadowsweet	-	-	-	-	-	-	R	<1%
<i>Galanthus nivalis</i>	Snowdrop	-	-	-	-	VLA	<1%	-	-
<i>Galium aparine</i>	Cleavers	LF	1%	A	10%	F*	20%	F*	5%
<i>Geranium</i> sp.	Non-native Geranium Species	-	-	-	-	VLA	<1%	-	-
<i>Geum urbanum</i>	Wood Avens	VLA	<1%	VLF	2%	VL	<1%	O	<1%
<i>Hedera helix</i>	Ivy	A*	40%	O	5%	A*	20%	LF	5%
<i>Holcus lanatus</i>	Yorkshire-fog	LF	5%	A	10%	LF	5%	F	5%
<i>Hyacinthoides non-scripta</i>	Bluebell	VLF	1%	-	-	-	-	-	-
<i>Hyacinthoides</i> sp.	Non-native Bluebell species	VLF	1%	-	-	VLA	<1%	-	-
<i>Mercurialis perennis</i>	Dog's Mercury	-	-	-	-	VLA	<1%	VLF	<1%
<i>Potentilla reptans</i>	Creeping Cinquefoil	-	-	-	-	VL	<1%	-	-
<i>Ranunculus repens</i>	Creeping Buttercup	LF	5%	LF	10%	LA	5%	LF	1%

Scientific Name	Common Name	Hedgerow 1		Hedgerow 2		Hedgerow 3		Hedgerow 4	
		DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover
<i>Rubus fruticosus</i> agg.	Bramble	A/LF*	20%	F	10%	VA	1%	VLA	<1%
<i>Taraxacum officinale</i> agg.	Dandelion	-	-	-	-	R	<1%	O	<1%
<i>Urtica dioica</i>	Common Nettle	LF	5%	A	10%	LF	5%	F/LA*	10%
<i>Veronica beccabunga</i>	Brooklime	-	-	-	-	-	-	VLA	<1%
<i>Vinca minor</i>	Lesser Periwinkle	VLF	-	-	-	-	-	-	-

**<sup>1</sup>Key to DAFOR:** D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare, V=Very, L=Local and \*denotes a constant species.  
Species highlighted in grey are classed as either 'woody' or 'woodland' species contributing to *The Hedgerows Regulations 1997* Wildlife and Landscape criteria assessment.

**Table 2: Plant Species List for Hedgerows 5 to 9**

Scientific Name	Common Name	Hedgerow 5		Hedgerow 6		Hedgerow 7		Hedgerow 8		Hedgerow 9	
		DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover
<b>Woody Species</b>											
<i>Alnus glutinosa</i>	Alder	O	5%	-	-	VL	<1%	-	-	O	2%
<i>Corylus avellana</i>	Hazel	-	-	R	1%	LF/VLA	5%	-	-	-	-
<i>Crataegus monogyna</i>	Hawthorn	A	40%	A	40%	A*	30%	O	5%	A*	50%
<i>Fraxinus excelsior</i>	Ash	-	-	O	5%	LF	5%	O	5%	F	2%
<i>Ilex aquifolium</i>	Holly	O	5%	-	-	-	-	-	-	O	1%
<i>Lonicera periclymenum</i>	Honeysuckle	-	-	-	-	VL	<1%	-	-	-	-
<i>Prunus padus</i>	Bird Cherry	O	5%	-	-	VL	<1%	F	5%	O	<1%
<i>Prunus spinosa</i>	Blackthorn	A	40%	A	40%	A*	50%	A	50%	A*	50%
<i>Rosa canina</i>	Dog-rose	-	-	O	5%	VLF	1%	F	5%	F	10%
<i>Salix</i> sp.	Willow species	O	5%	-	-	-	-	R	2%	-	-
<i>Sambucus nigra</i>	Elder	O	2%	-	-	O	<1%	O	5%	O	3%
<i>Viburnum opulus</i>	Guelder-rose	-	-	-	-	VL	<1%	-	-	-	-
<b>Herb Species</b>											
<i>Alliaria petiolata</i>	Garlic Mustard	-	-	-	-	-	-	R	1%	-	-
<i>Anthriscus sylvestris</i>	Cow Parsley	F*	2%	-	-	-	<1%	F	2%	F	5%
<i>Apium nodiflorum</i>	Fool's-water-cress	-	-	O	1%	VLA	<1%	-	-	-	-
<i>Arum maculatum</i>	Lords-and-Ladies	LA	4%	O	1%	O	<1%	LA	2%	O	<1%
<i>Asplenium scolopendrium</i>	Hart's-tongue fern	-	-	O	2%	-	-	-	-	-	-
<i>Carex pendula</i>	Pendulous Sedge	-	-	-	-	R	<1%	-	-	-	-
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	-	-	-	-	R	<1%	-	-	-	-
<i>Dryopteris dilatata</i>	Broad Buckler-fern	-	-	O	2%	R	-	-	-	-	-
<i>Dryopteris filix-mas</i>	Male-fern	O	2%	O	3%	O	<1%	-	-	-	-
<i>Epilobium hirsutum</i>	Great Willowherb	-	-	LF	3%	VLA	<1%	-	-	-	-
<i>Ficaria verna</i>	Lesser Celandine	LA	2%	VLA	2%	VLA	1%	LA	2%	LF	2%
<i>Filipendula ulmaria</i>	Meadowsweet	-	-	R	1%	-	-	-	-	-	-
<i>Galium aparine</i>	Cleavers	F*	2%	F*	10%	F	5%	F	2%	A*	50%

Scientific Name	Common Name	Hedgerow 5		Hedgerow 6		Hedgerow 7		Hedgerow 8		Hedgerow 9	
		DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover	DAFOR <sup>1</sup>	% Cover
<i>Hedera helix</i>	Ivy	F	3%	F*	3%	LF	5%	F	5%	A*	20%
<i>Holcus lanatus</i>	Yorkshire-fog	-	-	-	-	F	5%	-	-	F	5%
<i>Impatiens glandulifera</i>	Indian Balsam	-	-	-	-	VLF	<1%	-	-	-	-
<i>Juncus effusus</i>	Soft-rush	-	-	O	1%	VLF	<1%	-	-	-	-
<i>Mentha aquatica</i>	Water Mint	-	-	R	1%	-	-	-	-	-	-
<i>Mercurialis perennis</i>	Dog's Mercury	-	-	R	1%	VLF	<1%	-	-	-	-
<i>Ranunculus repens</i>	Creeping Buttercup	O	2%	O	2%	LF	1%	-	-	-	-
<i>Rubus fruticosus</i> agg.	Bramble	O	4%	F	5%	VLA/LF	5%	O	5%	-	-
<i>Rumex obtusifolius</i>	Broad-leaved Dock	-	-	-	-	-	-	O	1%	-	-
<i>Scrophularia nodosa</i>	Common Figwort	-	-	-	-	VLA	<1%	-	-	-	-
<i>Silene dioica</i>	Red Campion	-	-	O	2%	VLA	<1%	R	1%	-	-
<i>Taraxacum officinale</i> agg.	Dandelion	-	-	-	-	-	-	R	1%	-	-
<i>Urtica dioica</i>	Common Nettle	O	2%	F*	5%	F*	30%	O	2%	F	10%

<sup>1</sup>**Key to DAFOR:** D=Dominant, A=Abundant, F=Frequent, O=Occasional, R=Rare, V=Very, L=Local and \*denotes a constant species.

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