

APPENDIX Chilswell Valley Full Species Record Data accumulated by J A Webb in surveys from 2015-2016

KEY: **Noteworthy species** F.p. = Flowering plant **JAW** = J A Webb **CW** = Colin Williams **RKAM** = R K A Morris **☼** = Seen on site tour during Happy Valley BBOWT Picnic

Scientific name	Common name	Group	Sub-site	Map ref.	Col.	Det.	Date	Nos. Sexes, abundance	Comment
FLOWERING PLANTS									
Agrimonia eupatoria	Agrimony	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
Anemone nemorosa	Wood anemone	F.p.	Wet bottom of wood near stream	SP4997 0353	JAW	JAW	03.04.2015	Occasional	
Astragalus glycyphyllos	Wild liquorice	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	Occasional	Scattered at east and west ends of bank near scrub
Brachypodium pinnatum	Tor grass	F.p.	NW-facing limestone grassland	SP4993 0349	JAW	JAW	03.04.2015	4m patch	Around and in shade of young hawthorn on bank
Calystegia silvatica	Great bindweed	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Rare	
Cardamine flexuosa	Wavy bittercress	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Centaureum erythraea	Common centaury	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	Occasional	
Cirsium eriophorum	Woolly thistle	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	Occasional	
Cirsium palustre	Marsh thistle	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Rare	
Clinopodium acinos	Basil thyme	F.p.	SE-facing limestone grassland	SP49817 03487	JAW	JAW	09.07.2016	20 plants	On edge of quarry
Daucus carota	Wild carrot	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	Locally frequent	
Epilobium parviflorum	Hoary willow herb	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Festuca rubra	Red fescue	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	03.04.2015	Occasional	
Ficaria verna	Celandine	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Galium aparine	Cleavers	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Rare	
Geranium robertianum	Herb Robert	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Rare	
Heracleum sphondylium	Hogweed	F.p.	Base of limestone slopes, valley bottom	SP4990 0357	JAW	JAW	09.07.2016	Locally abundant	Valley bottom in limestone grassland areas
Hypericum tetrapterum	Square-stalked St John's wort	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Rare	
Isolepis setacea	Bristle club-rush	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	1 clump	Bare peat area north west of boardwalk
Juncus inflexus	Hard rush	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Melilotus altissimus	Tall melilot	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	Occasional	Lots NE end limestone grassland

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Myosotis arvensis	Field forget-me-not	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Rare	
Pimpinella saxifraga	Burnet saxifrage	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	Occasional	
Poa annua	Annual meadow grass	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Potentilla sterilis	Barren strawberry	F.p.	Woodland	SP5003 0357	JAW	JAW	08.05.2016	Rare	
Pulicaria dysenterica	Fleabane	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Rare	
Ranunculus auricomus	Goldilocks buttercup	F.p.	Wet bottom of wood near stream	SP4997 0353	JAW	JAW	03.04.2015	Rare	
Scrophularia auriculata	Water figwort	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Silene dioica	Red campion	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	08.05.2016	Rare	
Solanum dulcamara	Woody nightshade	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Stellaria holostea	Greater stitchwort	F.p.	East end SE-facing limestone grassland	SP4980 0349	JAW	JAW	03.04.2015	Occasional	
Stellaria holostea	Greater stitchwort	F.p.	Top of SE-facing limest grassl	SP498 035	JAW	JAW	08.05.2016	Occasional	
Stellaria media	Chickweed	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Rare	
Symphytum officinale	Comfrey	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Thymus pulegioides	Large thyme	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	Occasional	
Tilia cordata	Young small- leaved lime trees	F.p.	Scrub on north bank	SP5011 0370	JAW	JAW	03.04.2015	10 whips	Planted
Torilis japonica	Upright hedge parsley	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	Occasional	Top of limestone grassland slope
Trifolium dubium	Lesser trefoil	F.p.	SE-facing limestone grassland	SP4920 0349	JAW	JAW	03.04.2015	Occasional	Seedlings coming up from cowpats, verified by growing on at home
Urtica dioica	Common nettle	F.p.	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Vicia sativa	Common vetch	F.p.	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	Occasional	
Viola hirta	Hairy violet	F.p.	SE-facing limestone grassland	SP5001 0361	JAW	JAW	03.04.2015	Locally frequent	More numerous at east end
Viola reichenbachiana	Early dog violet	F.p.	Woodland	SP5003 0357	JAW	JAW	08.05.2016	Occasional	
Viola riviniana	Common dog violet	F.p.	Woodland	SP5003 0357	JAW	JAW	08.05.2016	Occasional	
Equisetum palustre	Marsh horsetail	Horsetail	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	
Equisetum telmateia	Giant horsetail	Horsetail	Cut-over fen portion	SP502 037	JAW	JAW	23.04.2016	Occasional	

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FUNGI									
<i>Puccinia circaeae</i>	Enchanter's nightshade rust	Fungus	Woodland	SP5008 0365	JAW	JAW	09.07.2016	Locally frequent	On leaves of enchanter's nightshade
<i>Agaricus xanthoderma</i>	Yellow stainer mushroom	Fungus	Woodland	SP5015 0366	JAW	JAW	09.07.2016	3	NW-facing oak woodland
INVERTEBRATES									
<i>Bombylius major</i>	Dark-edged bee fly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	3	
<i>Cheilosia impressa</i>	A hoverfly	Fly	SE-facing limestone grassland	SP498 035	JAW	RKAM	24.05.2014	4m	
<i>Cheilosia variabilis</i>	A hoverfly	Fly	SE-facing limestone grassland	SP498 035	JAW	RKAM	24.05.2014	1f,	
<i>Cheilosia vulpina</i>	A hoverfly	Fly	SE-facing limestone grassland	SP498 035	JAW	RKAM	24.05.2014	1f,	
<i>Chrysogaster solstitialis</i>	A hoverfly	Fly	SE-facing limestone grassland	SP498 035	JAW	RKAM	24.05.2014	1m,1f	
<i>Dioctria atricapilla</i>	A robberfly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	2	
<i>Nephrotoma</i> sp	Tiger cranefly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1	
<i>Phasia obesa</i>	A tachinid fly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1f	
<i>Phasia pusilla</i>	A tachinid fly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Pipizella viduata</i>	A hoverfly	Fly	SE-facing limestone grassland	SP498 035	JAW	RKAM	24.05.2014	4m,1f	
<i>Tephritis neesii</i>	A picture wing fly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1m	
<i>Terellia longicauda</i>	A picture wing fly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1m	
<i>Tipula vernalis</i>	A cranefly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1	
<i>Tipula vittata</i>	A cranefly	Fly	Wet woodland	SP5011 0366	JAW	JAW	23.04.2016	1f	
<i>Urophora jaceana</i>	A picture wing fly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1m	
<i>Urophora quadrifasciata</i>	A picture wing fly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	3f,1m	
<i>Xanthogramma pedissequum</i>	A hoverfly	Fly	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1	
<i>Aelia acuminata</i>	Bishop's mitre bug	Hemiptera	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Aelia acuminata</i>	Bishop's mitre bug	Hemiptera	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	6	
<i>Heterotoma merioptera</i>	A bug	Hemiptera	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Sehirus</i> sp	Black bug	Hemiptera	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1	
<i>Andrena cineraria</i>	Ashy-grey mining bee	Hymenoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	3f	
<i>Andrena labiata</i>	Girdled mining bee	Hymenoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Bombus lapidarius</i>	Red-tailed bumble bee	Hymenoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	Workers	On knapweed flower
<i>Formica cunicularia</i>	Large ants	Hymenoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	2 workers	

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<i>Lasius fuliginosus</i>	Jet ants	Hymenoptera	Hedge line top of N side	SP4981 0350	JAW	JAW	03.04.2015	Numerous workers	Workers in trails from old field maple coppice stool
<i>Nomada</i> sp	A nomad bee	Hymenoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1	
<i>Osmia leaiana</i>	A mason bee	Hymenoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1f	
<i>Sphecodes</i> sp.	Blood bees	Hymenoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	2	
<i>Vespa crabro</i>	Hornet	Hymenoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	1 queen	
<i>Bembecia ichneumoniformis</i>	Six-belted clearwing	Moth	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Euclidia glyphica</i>	Burnet companion	Moth	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1	
<i>Grapholita pallifrontana</i>	Liquorice piercer	Moth	SE-facing limestone grassland	SP498 035	JAW	JAW	24.05.2014	2	(Confirmed Martin Corley, 2016)
<i>Metrioptera roeselii</i>	Roesel's bush cricket	Orthoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1m	
<i>Pholidoptera griseoptera</i>	Dark bush cricket	Orthoptera	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1m	
<i>Cantharis rusticus</i>	A soldier beetle	Beetle	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1	
<i>Chrysolina menthastri</i>	A leaf beetle	Beetle	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	1	On water mint leaves
<i>Oedemera lurida</i>	An oedomerid beetle	Beetle	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Rhagonycha fulva</i>	Orange soldier beetle	Beetle	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Rutpela maculata</i>	Spotted longhorn beetle	Beetle	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	1	On hogweed flower
<i>Sermylassa halensis</i>	A leaf beetle	Beetle	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Subcoccinella 24-punctata</i>	24-spot ladybird	Beetle	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1	
<i>Tytthaspis semidecempunctata</i>	16-spot ladybird	Beetle	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1	
<i>Anthocharis cardamine</i>	Orange tip	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	2m	
<i>Aphantous hyperantus</i>	Ringlet	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Aphantous hyperantus</i>	Ringlet	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	1	
<i>Gonepteryx rhamni</i>	Brimstone	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	08.05.2016	1m	
<i>Maniola jurtina</i>	Meadow brown	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
<i>Maniola jurtina</i>	Meadow brown	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	2	

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Melanargia galathea	Marbled white	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	1	
Pararge aegeria	Speckled wood	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	1	
Pieris napi	Green-veined white	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	1	
Polyommatus icarus	Common blue	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
Pyronia tithonus	Gatekeeper	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	1	
Pyronia tithonus	Gatekeeper	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	09.07.2016	1	
Thymelicus sylvestris	Small skipper	Butterfly	SE-facing limestone grassland	SP498 035	JAW	JAW	25.07.2015	2	
VERTEBRATES									
Aegithalos caudatus	Long-tailed tit	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Alauda arvensis	Skylark	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Carduelis carduelis	Goldfinch	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Corvus corax	Raven	Bird	Site generally	SP502 037	CW	CW	03.04.2015	Pair	☼
Corvus monedula	Jackdaw	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Cyanistes caeruleus	Blue tit	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Dendrocopos major	Greater spotted woodpecker	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Erithacus rubecula	Robin	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Fringilla coelebs	Chaffinch	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Parus major	Great tit	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Pariparus ater	Coal tit	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Phylloscopus collybita	Chiff-chaff	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Prunella modularis	Dunnock	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Pyrrhula pyrrhula	Bullfinch	Bird	Site generally	SP502 037	CW	CW	03.04.2015	Pair	☼
Regulus regulus	Goldcrest	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Troglodytes troglodytes	Wren	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Turdus merula	Blackbird	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Turdus philomelos	Song thrush	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Turdus viscivorus	Mistle thrush	Bird	Site generally	SP502 037	CW	CW	03.04.2015	1	☼
Capreolus capreolus	Roe deer	Mammal	Footpath up to limest. grassland	SP5017 0374	JAW	JAW	23.04.2016	2m, 3f	