

New Police Facility, Llay Industrial Site

Phase 1 Ecological Survey
17 June 2013



Quality Management

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Prepared by	Dr. R. Birch	Signature (for file)	
Checked by	S. Griffiths	Signature (for file)	
Authorised by	J. Stoddard	Signature (for file)	

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1. Introduction

1.1 Proposal

- 1.1.1 Capita Symonds was commissioned to undertake a pre-planning application Phase 1 survey of land on the Llay Industrial Estate, Wrexham, LL12 0PG; grid reference SJ 325.566.
- 1.1.2 The site is approximately 7.3 hectares or 18 acres. 80% of the site is currently undeveloped (5.8 hectares)
- 1.1.3 A Phase 1 survey and walkover was undertaken by a Capita ecologist on 6th June 2013. Data collected as a result of that site visit forms the basis of the report.
- 1.1.4 Biodiversity records were requested from the North Wales Biodiversity records Centre (Cofnod) and these are included in the appendices.

2. Phase 1 Survey

2.1 Habitat Description

- 2.1.1 The disused industrial site at Llay consists of three discrete fields. The entrance to the site, opposite the main gate of the Sharp factory, opens into an open, scrubby field with an uneven topography, consisting of a mosaic of grassland habitats.
- 2.1.2 To the north are two fields. The smaller, triangular field is bounded by hedgerows, those adjacent to the road having been planted within the last decade. The hedge boundary between it and the large field to the NE consists of larger trees to 6m (TN15, Appendix A). These two fields may have been managed as hay meadows, and contain a species-rich but fairly consistent sward with a National Vegetation Classification (NVC) category of MG5¹

Figure 1 Habitat photographs

	
1a) Periodically-inundated grassland at TN 2	1b) Spotted orchid (<i>Dactylorhiza fuchsii</i>) at TN1, 2, 5, 6, 7, 8 and 9.
	
1c) Fen vegetation at TN6	1d) Glaucous sedge (<i>Carex flacca</i>) dominated grassland (CG2) at TN8

¹ Mesotrophic Grassland typically dominated by Crested Dog's tail grass (*Cynosurus cristatus*), Black Knapweed (*Centaurea nigra*) and Red Clover (*Trifolium pratense*)

2.1.3 The mosaic of habitats in the first field is more diverse, with habitats including:

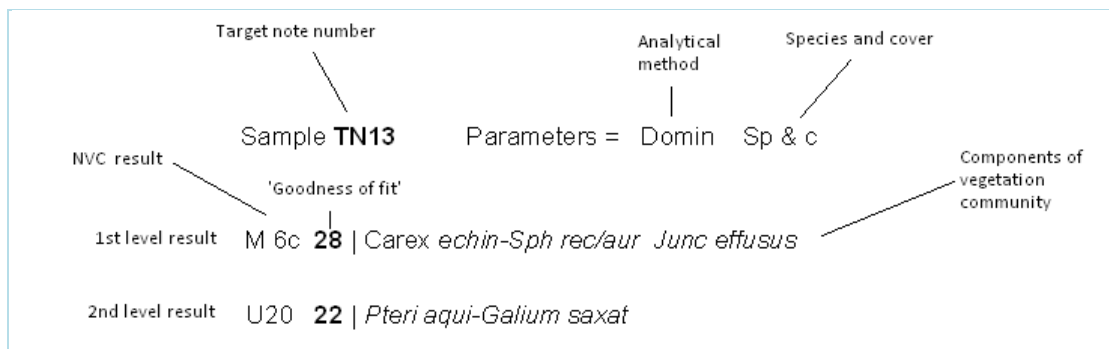
- Haymeadow-type grassland with orchids (MG5) (see Figure 1b);
- Tall herb vegetation and neutral grassland (MG1);
- Swamp communities dominated by Reedmace (*Typha latifolia*) (see Figure 1c);
- Marshy grassland, rush pasture and mire communities;
- Dry calcareous grassland (CG2) with abundant sedges and orchids (see Figure 1d);
- Mixed scattered scrub;
- Seasonal pools (see Figure 1a)

2.2 Data Collection and Analysis

2.2.1 Data collected from random vegetation plots is analysed using the TableFit© programme, which returns a NVC category for vegetation plots.

2.2.2 Plant data (species name, relative abundance) are entered into the TableFit© programme, which returns a 'goodness-of-fit' for a NVC category (see Figure 2):

Figure 2 TableFit© Analysis explained



2.2.3 The vegetation categories for data samples and the Target note (TN) where the data originated is shown in Table 1:

Table 1 TableFit© analysis for vegetation data

Sample 1 (relating to TN1)

MG 8 55 | *Cynosurus cristatus* - *Caltha palustris* damp pasture (although *C. palustris* (Kingcup) not recorded)

MG 5a 49 | *Cynosurus cristatus* - *Centaurea nigra* *Lathyrus pratensis* haymeadow

Sample 2 (relating to TN4)

MG 1a 62 | *Arrhenatherum elatius* *Festuca rubra* rough grass

Sample 3 (relating to TN6)

S12 32 | *Typha latifolia* swamp

Sample 4 (relating to TN16)

MG 5 45 | *Cynosurus cristatus* - *Centaurea nigra* haymeadow

Sample 5 (relating to TN 17)

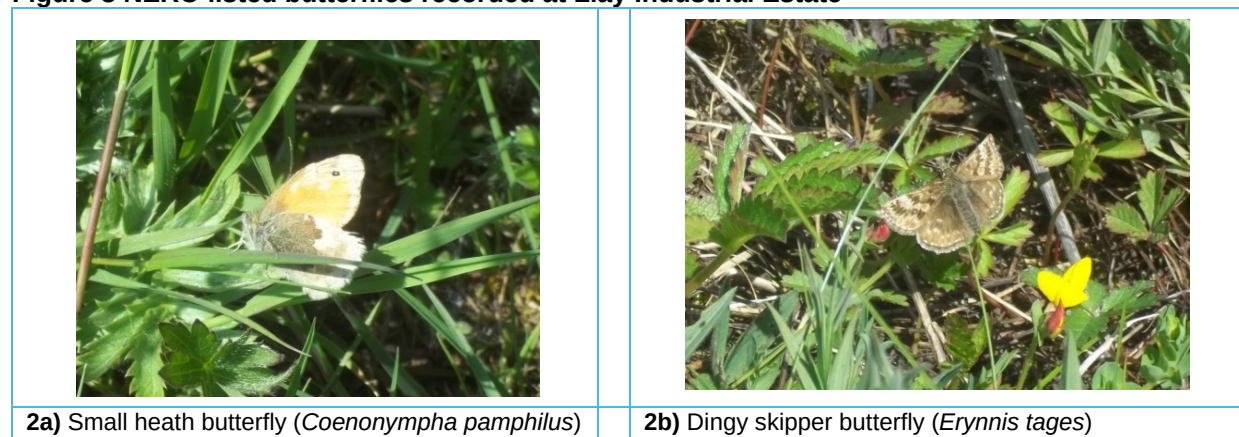
M23b 60 | *Juncus effusus*/*acutiflorus*-*Galium palustre*-*Juncus effusus* mire

MG 9 50 | *Holcus lanatus*-*Deschampsia cespitosa* neutral grassland

2.2.4 The diversity of habitats, combined with the topography and the long period in which the land has lain fallow (c20 years) has resulted in the colonisation by many invertebrate taxa. During survey, the following species were observed:

- Small heath butterfly;
- Dingy skipper butterfly;
- Small copper butterfly;
- Burnet companion moth;
- Common blue-tailed damselfly;
- Large red damselfly;

Figure 3 NERC-listed butterflies recorded at Llay Industrial Estate



2.2.5 Both the Small heath butterfly and the Dingy Skipper butterfly are listed as a Section 42 species of principal importance under the NERC Act in Wales.

2.2.6 In addition to the invertebrates, evidence of the following migrant bird species were also noted:

- Sedge Warbler (*Acrocephalus schoenobaenus*)
- Reed Bunting (*Emberiza schoeniclus*)
- Common Whitethroat (*Sylvia communis*)
- Willow Warbler (*Phylloscopus trochilus*)
- Blackcap (*Sylvia atricapilla*)

2.2.7 Common Whitethroat and Willow warbler feature on the UK Amber list of Birds of Conservation Concern (2009), having suffered a breeding decline of 25% in the last 25 years.

2.2.8 Other animals recorded included Common Toad (*Bufo bufo*)

2.3 Summary of Biodiversity Potential

2.3.1 There is a hierarchy of significance for the protection of habitats and species within the UK and this is summarised in Table 2:

Table 2 Summary of Habitats & Species Protection in UK

EXTENT	LEGISLATION	DEFINITION	ADMINISTRATION
International (European)	EU Habitats Directive (1994)	Habitat or Species declining throughout its international range and where an EU country holds a significant population	European Government
UK wide (England and Wales)	Wildlife & Countryside Act (1981) (as amended)	Habitat or Species rare within the UK but may have stable populations elsewhere in Europe	United Kingdom and devolved Governments
Regional (England and Wales)	UK Natural Environment & Rural Communities Act 2006 (NERC) – UK BAP	Habitat or Species with restricted range within the UK and where a local region may hold significant areas or populations	Regional Authorities

2.3.2 During the Phase 1 walkover, habitats and species were observed, for which designations listed in Table 2 apply. These are listed in Table 3:

Table 3 Habitats and Species recorded (or being likely to occur) on Llay industrial site

HABITAT	STATUS	RECORDED ON SITE
MG 5 grassland (Haymeadow)	UK Biodiversity Action Plan Habitat	✓
Ponds	UK Biodiversity Action Plan Habitat	✓
Open Mosaic Habitats on Previously Developed Land	UK Biodiversity Action Plan Habitat	✓
SPECIES	STATUS	RECORDED ON SITE
Reed Bunting	UK BAP Priority Bird Species	✓
Dingy Skipper	UK BAP Priority Invertebrate	✓
Small Heath	UK BAP Priority Invertebrate	✓
SPECIES	STATUS	RECORDED ON SITE
Dunnock	UK BAP Priority Bird Species	×
Song Thrush	UK BAP Priority Bird Species	×
Great Crested Newt	International Protected Species	×
Slow Worm	UK BAP Priority Herpetile Species	×
Grass Snake	UK BAP Priority Herpetile Species	×
Common Lizard	UK BAP Priority Herpetile Species	×
Bats - all species	International Protected Species	×
Badgers	Protection of Badgers Act 1992	×

2.3.3 Table 3 also includes species which were not recorded, but based on the habitat and local status, are likely to occur. This list is not all-inclusive. Records available from the Local Biodiversity Records Centre (Cofnod), assist in identifying further surveys (see section 3 Recommendations)

3. Recommendations

3.1 Requirement for Further Survey

- 3.1.1 The phase 1 (extended) survey was sufficient to identify broad habitats listed in the UK Biodiversity (Habitats) Action Plan (UK HAP) and some of the more visible invertebrate and bird species (see Table 3), but further survey would be required to determine the presence and status of protected species.
- 3.1.2 A list of the additional work required to determine the biodiversity value of the site is shown in Table 4:

Table 4 Further survey requirements

SPECIES	SURVEY REQUIREMENTS
Great Crested Newt (recorded from Cofnod data)	Survey of ponds between March and late May, to involve four visits by ecologists using bottle-trap, torch survey, egg-search or netting at each visit.
Badger (recorded from Cofnod data)	Survey of hedges and scrub to locate presence of setts or foraging activity.
Bats (recorded from Cofnod data)	Walkover survey between April and September to determine level of bat activity;
	Survey of trees to identify potential roost sites.
Breeding Birds (recorded from Cofnod data)	Two dawn visits, two weeks apart, between April and June to record territorial and singing birds.
Reptiles	Refugia survey - placing of 100+ reptile refugia in strategic habitats;
	Checking refugia a minimum of 7 times between April and June and again in September-early October for the presence of reptiles.
Invertebrates (recorded from Cofnod data)	Survey of butterflies (and moths) requiring 3 visits between April and September and the use of moth traps or sugar-baiting as required;
	Other methods including pitfall traps or netting may be used

4. Conclusions

4.1 Development Potential

- 4.1.1 Based on the Phase 1 survey results (which represent a snapshot of the biodiversity interest during a small part of one season), the biodiversity value of the site varies from extremely high (nature reserve quality) to moderate, and this will impact on the development potential of the site.
- 4.1.2 Although the results of additional surveys cannot be anticipated, and subsequent mitigation pre-empted, the potential for site development is summarised in Figure 4:

Figure 4 Developmental potential of site



- 4.1.3 The area shaded in blue consists of MG5 grassland and hedges with tall trees. These are potentially valuable habitats, but mitigation for the loss of this habitat type and the species it contains is within the scope of normal development, although it would be difficult to achieve the Landscape and Ecology (LE) requirements of BREEAM²².
- 4.1.4 The area shaded in red (and in particular the grassland and wetland habitats identified in the Phase 1 Map and Target Notes in Appendix A) consists of a mosaic representing habitats of high biodiversity value, the loss of which could not realistically be mitigated on site without setting aside a significant proportion of the available land (in excess of 10%) and investment in landscape features to compensate for habitat loss.

²² Building Research Establishment Environmental Assessment Method

Appendix A
Phase 1 Map



Figure 5 Phase 1 Map and Key

Appendix B
Target Notes & Species List

Table 5 Site species list (vascular plants - not comprehensive)

LATIN NAME	COMMON NAME	LATIN NAME	COMMON NAME
<i>Agrostis canina</i>	Velvet bent	<i>Glyceria fluitans</i>	Floating sweet grass
<i>Agrostis stolonifera</i>	Creeping bent	<i>Holcus lanatus</i>	Yorkshire fog
<i>Alopecurus pratensis</i>	Meadow foxtail	<i>Juncus conglomeratus</i>	Compact rush
<i>Anthoxanthum odoratum</i>	Sweet vernal grass	<i>Juncus effusus</i>	Soft rush
<i>Arrhenatherum elatius</i>	False oat grass	<i>Lathyrus pratensis</i>	Meadow vetchling
<i>Blackstonia perfoliata</i>	Yellow-wort	<i>Lemna minor</i>	Common duckweed
<i>Cardamine pratensis</i>	Ladies' smock	<i>Linum catharticum</i>	Purging flax
<i>Carex ?acuta</i>	Slender tufted sedge	<i>Lotus corniculatus</i>	Birds-foot trefoil
<i>Carex ?pseudocyperus</i>	Cyperus sedge	<i>Luzula campestre</i>	Field woodrush
<i>Carex flacca</i>	Glaucous sedge	<i>Plantago lanceolata</i>	Ribwort plantain
<i>Carex ovalis</i>	Oval sedge	<i>Poa trivialis</i>	Rough meadow grass
<i>Carex panicea</i>	Carnation sedge	<i>Potentilla anserina</i>	Silverweed
<i>Centaurea nigra</i>	Black knapweed	<i>Ranunculus acris</i>	Meadow buttercup
<i>Cerastium fontanum</i>	Common mouse-ear	<i>Ranunculus repens</i>	Creeping buttercup
<i>Cirsium arvensis</i>	Creeping thistle	<i>Rumex acetosa</i>	Sorrel
<i>Cynosurus cristatus</i>	Crested dogstail	<i>Rumex crispus</i>	Curled dock
<i>Dactylis glomerata</i>	Cocks' foot	<i>Rumex sanguineus</i>	Wood dock
<i>Descamphsia cespitosa</i>	Tufted hair grass	<i>Senecio eruscifolius</i>	Marsh ragwort
<i>Epilobium hirsutum</i>	Great willowherb	<i>Trifolium pratense</i>	Red clover
<i>Epilobium palustre</i>	Marsh willowherb	<i>Tussilago farfara</i>	Coltsfoot
<i>Festuca rubra</i>	Red fescue	<i>Typha latifolia</i>	Reedmace
<i>Glyceria declinata</i>	Small sweet grass	<i>Vicia sativa</i>	Common vetch

Table 6 Target Notes

No.	TARGET NOTE
1	Species-rich MG 5 grassland (elements of MG 8), dominated by crested dogs' tail and sweet vernal grass
2	Seasonal pond (dry) with abundant glaucous sedge
3	Species-rich hedge dominated by gorse (<i>Ulex europea</i>)
4	Neutral (MG1) grassland with tall herb community
5	Tall ephemeral and ruderal herb community
6	Pond - no significant water at time of survey. Sedge warbler and reed bunting singing in willow scrub
7	mesotrophic (MG5) grassland with dingy skipper and spotted orchids
8	Seasonal inundation with abundant carnation sedge and spotted orchids.
9	seasonal pond. Possible cyperus sedge (TBC) and common toad
10	tall herb and bramble scrub with nettles
11	South-facing earth bank with MG1 grassland. Dingy skipper present
12	Dense, impenetrable scrub with blackthorn and brambles
13	Short, species-rich turf appropriating to a base-rich grassland
14	Planted boundary hedge with field maple (<i>Acer campestre</i>)
15	Line of trees dominated by sessile oak (<i>Quercus petraea</i>). Potential for owls and bats
16	MG5 haymeadow

No.	TARGET NOTE
17	Seasonally-inundated pond. Newts possible.
18	earth bank on boundary with species-rich MG5 and dingy skipper
19	Wetland sedge community with ?Slender tufted sedge
20	Dense hawthorn scrub (beyond boundary)
21	Disturbed ground with abundant Teasel (<i>Dipsacus fullonum</i>)
22	Scrub woodland with bramble and willow carr. Ferns include Male fern (<i>Dryopteris felix-mas</i>) and Broad buckler fern (<i>D. dilatata</i>)
23	Pond. Access difficult but may support newts.

Appendix C
Biodiversity records



Please read **Important Issues** and **Notes** before interpreting the following information.

Our Ref.	Client Name	Date Run	Your Ref.
E03400	Capita Symonds Ltd	24/06/2013	CS/066157

Site Name	Grid Reference
Llay Industrial estate	SJ32575665

Category 1 Species (Species with European and/or UK Legal Protection, Section 42 [NERC] Species or UK BAP Priority Species) within 1000m - 98 records										
Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ325563 (Supplied by Original Recorder (Checked))	7 records, between 29/03/2007 and 17/04/2007	Simon Holden	Adult: 1 to 8		Llay Industrial Estate		D1310/001/01	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ325563	7 records, between 15/03/2007 and 26/09/2007	Simon Holden			Oth:sa:85:2007		D1317/001/01	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Coenonympha pamphilus (Small Heath/Gweirlöyn Bach y Waun)	SJ325562	26/08/2005	Bryan Formstone	1 Adult	Daytime observation	Llay Ind. Estate	Substrate:Unknown.	D1373/001/02 (3101106)	S42, UKBAP, LBAP[GWY]	3
Lasiommata megera (Wall/Gweirlöyn y Cloddiau)	SJ325562	26/08/2005	Bryan Formstone	1 Adult	Daytime observation	Llay Ind. Estate	Substrate:Unknown.	D1373/001/02 (3102308)	S42, UKBAP, LBAP[GWY]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ324561	18/04/2007	Kate Finlinson			Oth:sa:10:2007		D1317/001/01 (3976560)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ32165716 (Estimated from Map)	1994	Anon	P		near Rackery Hall		D1125/001/03 (1857211)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ32065610 (Estimated from Map)	23/05/2001	Jan Wilkinson	4		Llay		D1125/001/03 (1857685)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Arctia caja (Garden Tiger/Teigr yr Ardd)	SJ328559	24/07/1979	J.B. Formstone	3 Adult	Bred ex larvae	Llay Welfare	Substrate:Garden: rural.	D1285/001/01 (3049422)	S42, UKBAP, LBAP[GWY]	3
Lissotriton vulgaris (Smooth Newt/Madfall Ddwr Gyffredin)	SJ325574 (Supplied by Original Recorder (Checked))	~ Aug 1988	Anon	1		Llay; Lower Rackery	Translocated here from pool in quarry at Standard Landfill site; SJ290650.	D0269/029/01 (2697769)	WCA5, LBAP[CON, DEN, FLI]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ325574 (Supplied by Original Recorder (Checked))	~ Aug 1988	Anon	240		Llay; Lower Rackery	Translocated here from pool in quarry at Standard Landfill site; SJ290650.	D0269/029/01 (2702009)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ31915620 (Estimated from Map)	19/05/2001	Jan Wilkinson	1		Llay		D1125/001/03 (1857651)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ32235590 (Estimated from Map)	17/05/2001	Jan Wilkinson	9		Llay		D1125/001/03 (1857607)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Chiroptera (Bat Species/Ystlum)	SJ3355	29/11/2001	Anon			Site Name Withheld		D1486/001/01 (4094625)	WCA5	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ31855715	15/06/1992	Anon - Herpetofauna Consultants International	P		Caer-estyn Farm		D1125/001/03 (1857576)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ329557 (Supplied by Original Recorder (Checked))	2 records, on 29/04/2003 and 09/06/2003	Donna Warren	+ Adult, + Adult		Llay	Bottle trapping.	D1310/001/01	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ329557	2 records, on 29/04/2003 and 09/06/2003	Donna Warren			Oth:sa:24:2003		D1317/001/01	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Chiroptera (Bat Species/Ystlum)	SJ3156	12/02/1991	Anon			Site Name Withheld		D1486/001/01 (4092826)	WCA5	3
Lutra lutra (Otter/Dyfrgi)	SJ3156	4 records, all on 17/07/2002	Jane Walsh; Elizabeth Andrews; Name Withheld		Field signs, otter spraint	Site Name Withheld		D1153/001/02 D0045/001/01	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	Anon - CCW		Field signs, otter spraint (fresh) on sand castle	Site Name Withheld		D1153/001/02 (2476801)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	Oystein Overrein	Present None	field record	Site Name Withheld		D0969/001/03 (3519488)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	Anon - CCW		Field signs, otter spraint	Site Name Withheld		D1153/001/02 (2476803)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	Oystein Overrein	Present None	field record	Site Name Withheld		D0969/001/03 (3519492)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Lutra lutra (Otter/Dyfrgi)	SJ3156	10/04/1996	Anon - CCW		Field signs, otter spraint	Site Name Withheld		D1153/001/02 (2476798)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
Lutra lutra (Otter/Dyfrgi)	SJ3156	10/04/1996	Gail Butterill	Present None	field record	Site Name Withheld		D0969/001/03 (3519426)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	Anon - CCW		Field signs, otter spraint	Site Name Withheld		D1153/001/02 (2476804)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	Oystein Overrein	Present None	field record	Site Name Withheld		D0969/001/03 (3519491)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	C.C.W. Record		Spraint	Site Name Withheld		D1118/006/01 (693974)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Lutra lutra (Otter/Dyfrgi)	SJ3156	3 records, between 21/05/1998 and 17/06/1998	Anon - CCW; Geoff Liles		Possible otter hover; Field signs, otter spraint; Potential resting site	Site Name Withheld		D1153/001/02	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	Oystein Overrein	Present None	field record	Site Name Withheld		D0969/001/03 (3519490)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	C.C.W. Record		Spraint	Site Name Withheld		D1118/006/01 (693959)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Lutra lutra (Otter/Dyfrgi)	SJ3156	10/04/1996	C.C.W. Record		Spraint	Site Name Withheld		D1118/006/01 (693960)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	Anon - CCW		Field signs, otter spraint (fresh and old)	Site Name Withheld		D1153/001/02 (2476802)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	Oystein Overrein	Present None	field record	Site Name Withheld		D0969/001/03 (3519489)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	C.C.W. Record		Spraint	Site Name Withheld		D1118/006/01 (693958)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ31795790	11/06/1992	Anon - Herpetofauna Consultants International	P		Estyn House, Caeau Farm		D1125/001/03 (1857493)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Lutra lutra (Otter/Dyfrgi)	SJ3156	21/05/1998	C.C.W. Record		Spraint	Site Name Withheld		D1118/006/01 (694003)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Lutra lutra <i>(Otter/Dyfrgi)</i>	SJ3156	2 records, both on 21/05/1998	C.C.W. Record		Spraint; Artificial holt	Site Name Withheld		D1118/006/01	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
Vipera berus <i>(Adder/Gwiber)</i>	SJ307573	2 records, in 1999 and May 2001	Anon			Caergwle Castle		D1076/001/01	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
Vipera berus <i>(Adder/Gwiber)</i>	SJ307573	2 records, in 1999 and May 2001	Stuart Wilkinson; Charlie Harston	1 small animal, 1 adult		Caergwrlle Castle	1 small animal.	D0035/002/01	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
<i>Meles meles</i> <i>(Badger/Mochyn Daear)</i>	<i>SJ3257</i>	<i>27/02/2001</i>	<i>Clwyd Badger Group (CBG)</i>		<i>Badger Sett</i>		<i>CBG Ref: A3.0. Please contact CBG for more details.</i>	<i>D0059/001/01 (802859)</i>	<i>BA, LBAP[CON, DEN, FLI, WRE]</i>	<i>3</i>
<i>Meles meles</i> <i>(Badger/Mochyn Daear)</i>	<i>SJ3156</i>	<i>7 records, between 15/08/2001 and 24/01/2003</i>	<i>Clwyd Badger Group (CBG)</i>		<i>Badger Sett</i>		<i>CBG Ref: A5.0. Please contact CBG for more details.; CBG Ref: A5.1; CBG Ref: A43.0; CBG Ref: A43.1; CBG Ref: A45.0.</i>	<i>D0059/001/01</i>	<i>BA, LBAP[CON, DEN, FLI, WRE]</i>	<i>3</i>
<i>Satyrium w-album</i> <i>(White-letter Hairstreak/Brithribin W Wen)</i>	<i>SJ3156</i>	<i>3 records, between 18/07/1974 and 22/07/1983</i>	<i>Mike Grice</i>	<i>frequent adult, occasional adult, occasional adult</i>	<i>field record</i>	<i>Cefn-Y-Bedd</i>		<i>D0969/001/03</i>	<i>S42, UKBAP, WCA5, LBAP[FLI]</i>	<i>1</i>
<i>Myotis</i> <i>(Myotis Bat Species)</i>	<i>SJ3255</i>	<i>2 records, on 05/08/2008 and 02/09/2008</i>	<i>Michael Sharp</i>	<i>1, 1</i>		<i>Llay Hall Barns</i>		<i>D1117/001/01</i>	<i>Bonn, EPS, WCA5</i>	<i>4</i>
<i>Pipistrellus</i> <i>(Pipistrellus Bat Species)</i>	<i>SJ3255</i>	<i>05/08/2008</i>	<i>Michael Sharp</i>	<i>10</i>		<i>Llay Hall Barns</i>		<i>D1117/001/01 (2100301)</i>	<i>Bonn, EPS, WCA5</i>	<i>4</i>
<i>Pipistrellus pipistrellus</i> <i>(Common Pipistrelle/Ystlum Lleiaf)</i>	<i>SJ3255</i>	<i>3 records, between 05/08/2008 and 02/09/2008</i>	<i>Michael Sharp</i>	<i>1, 4, 2</i>		<i>Llay Hall Barns</i>		<i>D1117/001/01</i>	<i>Bern, Bonn, EPS, HDir, S42, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]</i>	<i>4</i>
<i>Pipistrellus pygmaeus</i> <i>(Soprano Pipistrelle)</i>	<i>SJ3255</i>	<i>3 records, between 21/08/2008 and 02/09/2008</i>	<i>Michael Sharp</i>	<i>2, 3, 3</i>		<i>Llay Hall Barns</i>		<i>D1117/001/01</i>	<i>Bonn, EPS, S42, UKBAP, WCA5, LBAP[ANG, DEN, FLI, GWY, SNP]</i>	<i>4</i>
<i>Plecotus auritus</i> <i>(Brown Long-eared Bat/Ystlum Hirglust)</i>	<i>SJ3255</i>	<i>3 records, between 05/08/2008 and 21/08/2008</i>	<i>Michael Sharp</i>	<i>1, 1, 1</i>		<i>Llay Hall Barns</i>		<i>D1117/001/01</i>	<i>Bern, Bonn, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]</i>	<i>4</i>
<i>Meles meles</i> <i>(Badger/Mochyn Daear)</i>	<i>SJ3357</i>	<i>30/12/2002</i>	<i>Clwyd Badger Group (CBG)</i>		<i>Badger Sett</i>		<i>CBG Ref: A4.0. Please contact CBG for more details.</i>	<i>D0059/001/01 (802860)</i>	<i>BA, LBAP[CON, DEN, FLI, WRE]</i>	<i>3</i>
<i>Micromys minutus</i> <i>(Harvest Mouse/Llygoden yr Yd)</i>	<i>SJ3357</i>	<i>3 records, all on 01/01/1895</i>	<i>Harris; S. Harris; Steve Harris</i>	<i>present Adult, present None, present Adult</i>	<i>Field Report; A Literature Record</i>	<i>Bryn-Y-Gaer</i>		<i>D0969/001/03</i>	<i>S42, UKBAP, LBAP[CON, FLI, GWY]</i>	<i>1</i>
<i>Meles meles</i> <i>(Badger/Mochyn Daear)</i>	<i>SJ3157</i>	<i>28/05/2002</i>	<i>Clwyd Badger Group (CBG)</i>		<i>Badger Sett</i>		<i>CBG Ref: A66.0. Please contact CBG for more details.</i>	<i>D0059/001/01 (802941)</i>	<i>BA, LBAP[CON, DEN, FLI, WRE]</i>	<i>3</i>
<i>Passer domesticus</i> <i>(House Sparrow/Aderyn y To)</i>	<i>SJ3157</i>	<i>12/04/2011</i>	<i>Steven Davies</i>			<i>Caergwrlle, E</i>	<i>BirdTrack.</i>	<i>D1297/006/01 (3898005)</i>	<i>S42, UKBAP, WBAm[RSPB], LBAP[CON, FLI, GWY]</i>	
<i>Plecotus</i> <i>(Long-eared Bat Species)</i>	<i>SJ3157</i>	<i>1987</i>	<i>Anon</i>			<i>Caer Estyn</i>		<i>D1072/001/01 (409850)</i>	<i>Bonn, EPS, WCA5</i>	<i>3</i>
<i>Pipistrellus pipistrellus</i> <i>(Common Pipistrelle/Ystlum Lleiaf)</i>	<i>SJ3355</i>	<i>1987</i>	<i>Anon</i>			<i>Llay</i>		<i>D1072/001/01 (408487)</i>	<i>Bern, Bonn, EPS, HDir, S42, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]</i>	<i>3</i>
<i>Anser anser</i> <i>(Greylag Goose/Gwydd Wyllt)</i>	<i>SJ3155</i>	<i>2 records, on 10/05/2010 and 10/05/2011</i>	<i>Steven Davies</i>	<i>3, 4</i>		<i>Sydallt</i>	<i>BirdTrack; Birdtrack: Breeding code: H.</i>	<i>D1297/005/01</i>	<i>BDir, Bonn, WCA1, LBAP[CON]</i>	
<i>Meles meles</i> <i>(Badger/Mochyn Daear)</i>	<i>SJ3155</i>	<i>15/08/2001</i>	<i>Clwyd Badger Group (CBG)</i>		<i>Badger Sett</i>		<i>CBG Ref: A6.0. Please contact CBG for more details.</i>	<i>D0059/001/01 (802865)</i>	<i>BA, LBAP[CON, DEN, FLI, WRE]</i>	<i>3</i>
<i>Turdus iliacus</i> <i>(Redwing/Coch Dan Adain)</i>	<i>SJ3155</i>	<i>10/11/2010</i>	<i>Steven Davies</i>	<i>1+</i>		<i>Sydallt</i>	<i>Birdtrack:.</i>	<i>D1297/005/01 (3916196)</i>	<i>BDir, WBAm[RSPB], WCA1, LBAP[CON]</i>	
<i>Turdus pilaris</i> <i>(Fieldfare/Socan Eira)</i>	<i>SJ3155</i>	<i>10/11/2010</i>	<i>Steven Davies</i>	<i>1+</i>		<i>Sydallt</i>	<i>Birdtrack:.</i>	<i>D1297/005/01 (3914090)</i>	<i>BDir, WBAm[RSPB], WCA1, LBAP[CON]</i>	
<i>Vanellus vanellus</i> <i>(Northern Lapwing/Cornchwiglen)</i>	<i>SJ3155</i>	<i>10/05/2010</i>	<i>Steven Davies</i>	<i>4</i>		<i>Sydallt</i>	<i>Birdtrack: Breeding code: FL.</i>	<i>D1297/005/01 (3915940)</i>	<i>BDir, Bonn, S42, UKBAP, WBR[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP]</i>	

Category 2 Species (Global Red List, British Red Data Book, Nationally Rare & Scarce, Welsh Red and Amber Birds & Welsh Vascular Plant Red Data List, where these are not identified in Category 1) within 1000m - 16 records										
Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Aegithalos caudatus (Long-tailed Tit/Titw Cynffon-Hir)	SJ324560	04/02/2008	Amber Flewitt	15		1 Bramble Court, Llay, Wrexham	Record submitted to rECOrd on Wildlife Watcher_s Diary postcard. Grid reference obtained from postcode using online converter. The Long-tailed Tits come round to feed twice a day, in groups of 3 to 15.	D1117/001/01 (2101105)	WBAm[RSPB]	4
Picus viridis (Green Woodpecker/Cnocell Werdd)	SJ3157	12/04/2011	Steven Davies	1		Caergwrle, E	BirdTrack.	D1297/006/01 (3897843)	Bern, WBAm[RSPB], LBAP[CON, DEN, FLI, GWY, SNP]	
Viola tricolor (Wild Pansy/Trilliw)	SJ3157 (Estimated (Centroid of Site Name))	02/07/1973	Goronwy Wynne			Caer Estyn	waste ground.	D0101/001/01 (3144132)	RD1, WVP	1
Anas platyrhynchos (Mallard/Hwyaden Wylt)	SJ3155	10/05/2010	Steven Davies	2		Sydallt	Birdtrack: Breeding code: P.	D1297/005/01 (3915637)	BDir, Bonn, WBAm[RSPB], LBAP[CON, GWY]	
Apus apus (Common Swift/Gwennol Ddu)	SJ3155	2 records, on 10/05/2010 and 10/05/2011	Steven Davies	1+, 1		Sydallt	Birdtrack: Breeding code: F; BirdTrack.	D1297/005/01	WBAm[RSPB]	
Delichon urbicum (House Martin/Gwennol y Bondo)	SJ3155	2 records, on 10/05/2010 and 10/05/2011	Steven Davies	1+, 1+		Sydallt	BirdTrack; Birdtrack: Breeding code: F.	D1297/005/01	Bern, WBAm[RSPB], LBAP[CON]	
Hirundo rustica (Swallow/Gwennol)	SJ3155	3 records, between 10/05/2010 and 10/05/2011	Steven Davies	1+, 1+, 1+		Sydallt	Birdtrack: Breeding code: F; BirdTrack.	D1297/005/01	Bern, WBAm[RSPB], LBAP[ANG, CON, GWY]	
Larus canus (Common Gull/Gwylan y Gweunydd)	SJ3155	10/11/2010	Steven Davies	1+		Sydallt	Birdtrack: Breeding code: F.	D1297/005/01 (3915776)	BDir, WBR[RSPB]	
Picus viridis (Green Woodpecker/Cnocell Werdd)	SJ3155	22/07/2010	Steven Davies	1		Sydallt	Birdtrack: Breeding code: H.	D1297/005/01 (3914646)	Bern, WBAm[RSPB], LBAP[CON, DEN, FLI, GWY, SNP]	
Sturnus vulgaris (Common Starling/Drudwen)	SJ3155	2 records, on 10/05/2010 and 10/11/2010	Steven Davies	1+, 1+		Sydallt	Birdtrack: Breeding code: F.	D1297/005/01	BDir, WBR[RSPB], LBAP[CON, FLI, GWY]	
Turdus philomelos (Song Thrush/Bronfraith)	SJ3155	10/05/2010	Steven Davies	1		Sydallt	Birdtrack: Breeding code: H.	D1297/005/01 (3916440)	BDir, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	

Category 3 Species (LBAP Species not identified under Categories 1 & 2, Locally Important species as specified by local experts) within 1000m - 43 records										
Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Aeshna grandis (Brown Hawker/Gwas Neidr Brown)	SJ327568	04/08/1990	Julian C. Weldrick	2-5 Adult		Rubery Owen Pond		D0067/001/01 (638144)	LBAP[GWY, SNP]	3
Aeshna grandis (Brown Hawker/Gwas Neidr Brown)	SJ327568 (Estimated (Centroid of Site))	04/08/1990	Weldrick, Julian C			Rubery Owen Pond	Phase One Habitat Code: G1.	D0158/003/01 (2506685)	LBAP[GWY, SNP]	4
Cyanistes caeruleus (Blue Tit/Titw Tomos Las)	SJ324560	04/02/2008	Amber Flewitt	2		1 Bramble Court, Llay, Wrexham	Record submitted to rECOrd on Wildlife Watcher_s Diary postcard. Grid reference obtained from postcode using online converter.	D1117/001/01 (2101108)	Bern, LBAP[CON]	4
Parus major (Great Tit/Titw Mawr)	SJ324560	04/02/2008	Amber Flewitt	3		1 Bramble Court, Llay, Wrexham	Record submitted to rECOrd on Wildlife Watcher_s Diary postcard. Grid reference obtained from postcode using online converter.	D1117/001/01 (2101107)	Bern, LBAP[CON]	4
Sympetrum striolatum (Common Darter/Gwâell Gyffredin)	SJ317569	14/07/1985	T.J. Wallace	Present Adult		Abermorddu		D0067/001/01 (638027)	LBAP[SNP]	3
Sympetrum striolatum (Common Darter/Gwâell Gyffredin)	SJ317569 (Estimated (Centroid of Site))	14/07/1985	Wallace, T J			Abermorddu		D0158/003/01 (2508515)	LBAP[SNP]	4
Carex spicata (Spiked Sedge/Hesgen Ysbigog Borffor)	SJ322575	16/06/1977	Goronwy Wynne			Hope	damp pasture.	D0101/001/01 (3143242)	LBAP[GWY]	1
Brachythecium glareosum (Streaky Feather-moss)	SJ3156	1970	Hill, M.O.			Cefn-y-Bedd		D1075/001/02 (1753478)	LBAP[CON]	3
Sciuro-hypnum populeum (Matted Feather-moss)	SJ3156	1950	Hill, M.O.			Cefn-y-Bedd		D1075/001/02 (1753622)	LBAP[CON]	3
Buteo buteo (Buzzard/Bwncath)	SJ3157	12/04/2011	Steven Davies	1		Caergwrle, E	BirdTrack.	D1297/006/01 (3896760)	Bonn, CITES, LBAP[CON]	
Carduelis carduelis (Goldfinch/Nico)	SJ3157	12/04/2011	Steven Davies			Caergwrle, E	BirdTrack.	D1297/006/01 (3897479)	Bern, LBAP[ANG, CON]	
Carduelis chloris (Greenfinch/Llinos Werdd)	SJ3157	12/04/2011	Steven Davies			Caergwrle, E	BirdTrack.	D1297/006/01 (3897533)	Bern, LBAP[CON]	
Cyanistes caeruleus (Blue Tit/Titw Tomos Las)	SJ3157	12/04/2011	Steven Davies			Caergwrle, E	BirdTrack.	D1297/006/01 (3896341)	Bern, LBAP[CON]	
Parus major (Great Tit/Titw Mawr)	SJ3157	12/04/2011	Steven Davies	1		Caergwrle, E	BirdTrack.	D1297/006/01 (3897778)	Bern, LBAP[CON]	
Phylloscopus collybita (Common Chiffchaff/Siff-Siaff)	SJ3157	12/04/2011	Steven Davies			Caergwrle, E	BirdTrack.	D1297/006/01 (3896801)	LBAP[CON]	
Buteo buteo (Buzzard/Bwncath)	SJ3155	4 records, between 10/11/2010 and 10/05/2011	Steven Davies	1, 1, 1, 1		Sydallt	BirdTrack; Birdtrack: Breeding code: H.	D1297/005/01	Bonn, CITES, LBAP[CON]	

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Carduelis carduelis</i> (Goldfinch/Nico)	SJ3155	3 records, between 10/05/2010 and 10/05/2011	Steven Davies	1+, 1+, 1+		Sydallt	Birdtrack: Breeding code: H; BirdTrack.	D1297/005/01	Bern, LBAP[ANG, CON]	
<i>Carduelis chloris</i> (Greenfinch/Llinos Werdd)	SJ3155	3 records, between 22/07/2010 and 10/05/2011	Steven Davies	1+, 1, 1		Sydallt	BirdTrack; Birdtrack: Breeding code: H.	D1297/005/01	Bern, LBAP[CON]	
<i>Columba oenas</i> (Stock Pigeon/Colomen Wylt)	SJ3155	10/11/2010	Steven Davies	7		Sydallt	Birdtrack:.	D1297/005/01 (3916491)	BDir, LBAP[GWY]	
<i>Corvus corax</i> (Common Raven/Cigfran)	SJ3155	2 records, on 22/07/2010 and 10/05/2011	Steven Davies	2, 1		Sydallt	Birdtrack: Breeding code: F; BirdTrack.	D1297/005/01	LBAP[CON]	
<i>Cyanistes caeruleus</i> (Blue Tit/Titw Tomos Las)	SJ3155	2 records, on 10/11/2010 and 10/05/2011	Steven Davies	1+, 1+		Sydallt	Birdtrack:; BirdTrack.	D1297/005/01	Bern, LBAP[CON]	
<i>Dendrocopos major</i> (Great Spotted Woodpecker/Cnocell Fraith Fwyaf)	SJ3155	2 records, on 22/07/2010 and 10/11/2010	Steven Davies	1, 1		Sydallt	Birdtrack: Breeding code: H.	D1297/005/01	Bern, LBAP[CON]	
<i>Motacilla alba</i> subsp. <i>yarrellii</i> (Pied Wagtail/Siglen Fraith)	SJ3155	2 records, on 10/11/2010 and 10/05/2011	Steven Davies	1, 12+		Sydallt	BirdTrack; Birdtrack:.	D1297/005/01	Bern, LBAP[CON]	
<i>Motacilla cinerea</i> (Grey Wagtail/Siglen Lwyd)	SJ3155	10/11/2010	Steven Davies	1		Sydallt	Birdtrack:.	D1297/005/01 (3914745)	Bern, LBAP[CON]	
<i>Parus major</i> (Great Tit/Titw Mawr)	SJ3155	10/05/2010	Steven Davies	1		Sydallt	Birdtrack: Breeding code: H.	D1297/005/01 (3914476)	Bern, LBAP[CON]	
<i>Phylloscopus collybita</i> (Common Chiffchaff/Siff-Siaff)	SJ3155	2 records, on 10/05/2010 and 10/05/2011	Steven Davies	1+, 1		Sydallt	Birdtrack: Breeding code: S; BirdTrack.	D1297/005/01	LBAP[CON]	
<i>Prunella modularis</i> (Dunnock/Llwyd y Gwrych)	SJ3155	2 records, on 22/07/2010 and 10/05/2011	Steven Davies	1, 1		Sydallt	BirdTrack; Birdtrack: Breeding code: H.	D1297/005/01	Bern, LBAP[CON]	
<i>Sylvia atricapilla</i> (Blackcap/Telor Penddu)	SJ3155	2 records, on 10/05/2010 and 10/05/2011	Steven Davies	1, 1		Sydallt	Birdtrack: Breeding code: H; BirdTrack.	D1297/005/01	LBAP[CON]	
<i>Sylvia curruca</i> (Lesser Whitethroat/Llwydfron Fach)	SJ3155	10/05/2010	Steven Davies	1		Sydallt	Birdtrack: Breeding code: S.	D1297/005/01 (3915397)	LBAP[CON, DEN, FLI]	

Statutory Sites intersecting 1000m buffer	None
Wildlife Sites within 1000m (C=Candidate)	Nant Y Gaer & Llay Valley (W305) (707m)
NWWT Reserves within 1000m	None
RSPB Reserves within 1000m	None
RIGS within 1000m	None
Habitat type at application grid reference	Semi-improved Neutral Grassland
Habitat type(s) within 1000m	Amenity Grassland, Arable, Bracken, Buildings, Improved Grassland, Not Accessed Land, Quarry, Semi-improved Neutral Grassland, Semi-natural Broad-leaved Woodland, Spoil, Standing Water
Ancient Woodland within 1000m	Ancient Semi Natural Woodland

Important Issues

1. Usage of the above information is governed by Cofnod's **Terms and Conditions of Data Release** (available from Cofnod on request).
2. Records shown in bold typeface are sensitive species records. In this public version of the original report, the resolution of sensitive species grid references have been reduced and site names and comments have been removed.
3. Past records of presence of a habitat or species do not guarantee continued occurrence; absence of records does not imply absence of a species, merely that no records are held at Cofnod; Cofnod cannot guarantee the accuracy of supplied data; copyright of records remains with the original recorder.

Notes

This report should be used in conjunction with any relevant maps, where these are supplied.

Cofnod uses a search system which reports species (usually high priority or protected species) within a specified search radius or buffer. Where required a search will also include high priority 'Mobile Species', such as bats, otters, amphibians and certain invertebrates, which lie outside the specified search radius. These species are highlighted on the report with an **asterisk**. They have been selected as 'Mobile Species' as their territory (possibly due to foraging activity or life cycle) could intersect with the search radius. The list of 'Mobile Species', invasive non-native plant species and species categories used in Cofnod's reporting system can be found at <http://www.cofnod.org.uk/Enquiries.aspx> under the 'Species Categories' tab.

Records with 4 figure grid references are displayed as 1km squares on any relevant maps. They are listed separately in reports and highlighted in grey *italic* script.

Please note that while we hold Wales Raptor Study Group data for North East Wales we are only permitted to release it to a limited number of trusted partners. We can provide contact details if you would like to contact the Raptor Study Group directly to request species information.

Sites - Designated Sites and non-designated Wildlife Sites within 50m of the grid reference are highlighted in red. Wildlife Sites which remain unconfirmed by the relevant Local Authority are given 'Candidate' status and are displayed with the (c) suffix. The following reasons for candidate status apply: 1. Anglesey and Flintshire Wildlife Sites were identified by survey but have not been formally confirmed. 2. Conwy and Gwynedd Wildlife Sites were identified by survey and air photos and remain candidate until evaluated using selection criteria.

Dataset ID - All species records within the reports include Dataset ID codes, which can be used to find the relevant Metadata, using the **Data We Hold** page on the Cofnod website (www.cofnod.org.uk/DataWeHold.aspx). The number below the Dataset ID is the individual record ID. Please quote this if you need more information on a specific record.

'V' column - Record Verification Level. The following abbreviations apply: **1**: Unassessed, **2**: Unconfirmed, **3**: Considered Correct by Cofnod, **4**: Considered Correct by Expert. Dataset Categories and Record Verification Levels are explained in more detail within Cofnod's policy on Data Quality, available from our website.

Maps - This report should be used in conjunction with any relevant maps, where these are supplied. Where Statutory protected sites (e.g. SSSI, SAC, SPA) are displayed on Cofnod maps, more details can be obtained from Countryside Council for Wales. (Visit their website at <http://www.ccw.gov.uk/interactive-maps/official-maps-search.aspx>) Where a Phase 1 Habitat map has been supplied, this illustrates habitats mapped by CCW as part of their Habitat Survey of Wales 1979 to 1997. A separate legend is also supplied.

Lists

BA - Protection of Badgers Act, **BDir** - EU Birds Directive, **Bern** - The Bern Convention on the Conservation of European Wildlife and Natural Habitats, **Bonn** - The Bonn Convention on the Conservation of Migratory Species of Wild Animals, **CCWP** - CCW Priority Species List, **CITES** - Convention on International Trade in Endangered Species, **EPS** - European Protected Species, **HDir** - EU Habitats Directive, **LI** - Locally Important Species, identified by the County Recorder as being of particular importance in the specified Vice-County (see below for a list of Vice-Counties) N.B: Only available for certain species groups and certain areas, **LBAP** - Local Biodiversity Action Plan, **RD1** - Red Data Book listing based on IUCN guidelines, **RD2** - Red Data Book listing not based on IUCN guidelines (Nationally Rare and Scarce), **S42** - Natural Environment and Rural Communities Act 2006 (Section 42), **UKBAP** - UK Biodiversity Action Plan Priority Species, **WBAm[RSPB]** - Birds of Conservation Concern 2002-07 - Welsh Amber listed birds (not based on IUCN criteria), **WBR[RSPB]** - Birds of Conservation Concern 2002-07 - Welsh Red listed birds (not based on IUCN criteria), **WCA1** - Wildlife & Countryside Act 1981 Schedule 1, **WCA5** - Wildlife & Countryside Act 1981 Schedule 5, **WCA8** - Wildlife & Countryside Act 1981 Schedule 8, **WVP** - IUCN Threat Listing of Welsh Vascular Plants

Abbreviations

ANG - Isle of Anglesey, **CON** - Conwy, **DEN** - Denbighshire, **FLI** - Flintshire, **GWY** - Gwynedd, **SNP** - Snowdonia National Park, **WRE** - Wrexham, **LBAP** - Local Biodiversity Action Plan, **NWWT** - North Wales Wildlife Trust, **RSPB** - Royal Society for the Protection of Birds, **RIGS** - Regionally Important Geodiversity Sites, **WS** - Wildlife Site

Vice-Counties

48 - Meirionethshire, **49** - Caernarfonshire, **50** - Denbighshire, **51** - Flintshire, **52** - Anglesey

Contact Us

Cofnod - Gwasanaeth Gwybodaeth Amgylcheddol Gogledd Cymru/North Wales Environmental Information Service
Intec, Ffordd y Parc, Parc Menai, Bangor. LL57 4FG **Tel:** (01248) 672603 **Fax:** (01248) 672601 **Email:** contactus@cofnod.org.uk

Capita Symonds Ltd
Penrhos Manor
Oak Drive
Colwyn Bay LL29 7YW

Tel +44 (0)1492 539200
Fax+44 (0)1492 531333

www.capitasymonds.co.uk