

Land at
F.S Jones, Abbey Road South, Wrexham

Preliminary Ecological Assessment
Prepared by Amanda Cartwright & Kim Norman
For
Mr J Roberts

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Executive Summary

This report has been prepared by Mandy Cartwright (Independent Ecologist) and Kim Norman (Independent Ecologist, CIEEM), on behalf of Mr Jones. It provides an assessment of potential ecological effects associated with a proposed extension onto a current building. The existing storage building size is approximately 1350 SQM and the proposed extension will be approximately 680 SQM. The proposed extension will be to the rear of the current building.

Great crested newts are known to be present within the surrounding area, with waterbodies present within 300 metres of the Site; which have GCN records. Habitats within the Site provide some foraging opportunities as well as potential places that could be used for shelter and refuge. A detailed Method Statement for the protection of great crested newts during the construction phase will be agreed in consultation with Natural Resources Wales (NRW) and Wrexham County Borough Council. Works will proceed either under Reasonable Avoidance Measures (RAMs) or under a European Protected Species derogation licence granted by NRW if required. In either case, it is considered that with such measures in place, the proposed development will have no likely significant effects on the favourable conservation status of this species.

There will be no impacts on any site designated for nature conservation.

Providing the implementation of the proposed mitigation, the potential for adverse impacts on protected and notable species or habitats is considered to be negligible.

Recommendations have been given for enhancing biodiversity within the site with the construction of habitat banks or butterfly banks whilst retaining the existing grassland to benefit invertebrate species, particularly the grizzled skipper which the Wrexham Industrial estate has good records

The assessment concludes that there are no other ecological constraints to the proposed development site.

1.0 Introduction

1.1 We were commissioned in July, 2018 by Mr Roberts to undertake an ecological assessment of the area of land at the rear of his property off Abbey Road south, Wrexham Industrial Estate.

1.2 An extension to a current building is proposed to provide extra storage space for his business.

1.3 This report presents baseline information on habitats and ecological features both within the Site and the immediate surrounding area. The potential presence of protected species and habitats and sites of nature conservation interest is identified and considered in relation to the proposed development.

1.4 The following tasks were completed to inform the assessment

- Desk top study
- Phase 1 habitat survey
- Internal and external assessment of the onsite building for bat roosting potential

1.5 The objectives of this report are to;

- Detail the methods and results of the above surveys;
- Identify features of ecological value within the site and within the wider zone of influence and then any potential constraints for the proposed renovation
- Provide recommendations to avoid or, where this is not possible, mitigate potential impacts and thereby maintain net biodiversity value.

2.0 Site Description

2.1 The central grid reference of the proposed development site is SJ38544964. The survey area and site context is shown in figure 1.

2.2 The site is located within Wrexham Industrial Estate.

Figure 1: Site Location.



3.0 Methods

Desk Study

3.1 Designated sites and protected and notable habitats and species within 1km of the site, were identified by reviewing publically available information and records obtained from the local record centre, as listed in Table 2.

3.2 The desk study included a review of relevant policy and guidance and sought to identify any statutory designated sites for nature conservation through a review of the Multi Agency Geographic Information for the Countryside (MAGIC)¹. An information request was also

3.3 The following data search parameters, from the Site were used:

- Records of protected and notable species and habitats within a 1km radius; and,
- Statutory and non-statutory designated sites within a 1km radius.

3.4 Relevant policies from the local plan(s) relating to biodiversity were also identified. See table 1.

Table 1 – legislation and planning policy

European
• Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (hereafter referred to as the ‘Habitats Directive’); and, • Directive 2009/147/EC of the European Parliament and of the Council on the conservation of wild birds (codified version of Directive 79/409/EEC as amended) (hereafter referred to as the ‘Birds Directive’).
National
• The Conservation of Habitats and Species Regulations 2017, (the ‘Habitat Regulations’); • The Wildlife and Countryside Act 1981 (as amended); • The Environment (Wales) Act 2016; • Countryside and Rights of Way Act 2000; • Protection of Badgers Act 1992; • Hedgerow Regulations 1997 • Natural Environment and Rural Communities (NERC) Act (2006); • The National Planning Policy Framework (NPPF) (July 2018); • ‘Birds of Conservation Concern 4’ (Eaton <i>et al.</i>, 2015)²; • The United Kingdom Biodiversity Action Plan (UK BAP); • The Bat Conservation Trust - <i>Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd Ed.)</i>. (Collins <i>et al.</i>, 2016³); and • BS 42020:2013 Biodiversity – Code of Practice for Planning and Development.
Local
• Wrexham’s Unitary Development Plan 1996 – 2011; • The Wrexham local Development Plan 2 (LDP2) 2013 to 2028; • Wrexham’s Biodiversity Action Plan; • Wrexham Biodiversity Checklist⁴; and, • Options for GCNs in Wrexham: Comparative impact modelling to inform planning (Fletcher & Wilkinson, 2013⁵).

Table 2: Ecological data sources

Source	Description
Cofnod	Designated sites and protected species records
Google Maps	Satellite imagery
Multi-Agency Geographic information for the countryside (MAGIC) map	Designated sites and priority habitats

Habitats survey

3.5 A habitat survey was completed in June, 2018. Weather during the survey was dry and overcast. An additional habitat survey was conducted in March 2022 due to the time lapsed since the original survey. The survey was completed to the standard phase 1 habitat survey method (JNCC 2010) Incidental evidence of protected or invasive species was noted during the survey. The site was also assessed for its potential to support protected species.

Fauna

3.6 During the habitat survey, the habitats present were assessed for their potential to support species of conservation concern, particularly statutorily protected species, Section 41 or Local BAP priority species

3.7 During the Phase 1 survey, the habitats present were assessed for their potential to support species of conservation concern, particularly statutorily protected species or species covered under Section 7 (S7) of the Environment (Wales) Act.

3.8 A ground based bat assessment of the building was also undertaken on site. Evidence of cracks, crevices or other features suitable to support roosting bats was searched for with the use of high powered binoculars where necessary.

3.9 The criteria for roost assessment for trees and buildings is listed below.

- Negligible - Negligible habitat features on site likely to be used by roosting bats.
- Low - A structure or tree with one or more potential roost sites that could be used by individual bats opportunistically.
- Moderate - A structure or tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of high conservation status.
- High - A structure or tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for longer periods of time due to their size, shelter, protection, conditions and surrounding habitat.

Limitations

3.10 It should be noted that whilst every effort has been made to provide a comprehensive description of the site, no investigation can ensure the complete characterisation and prediction of the natural environment.

4.0 Results

Desktop study

4.1 A summary of the results of the desktop study are set out below. Full results, including maps of designated sites within 1km of the site boundary, are found in Appendix 1.

4.2 Relevant species records as listed below are those recorded within 1km during the past 10 years (2007 onwards)

Table 3 Designated sites

Site Name	Designation	Location	Information
Ancient Woodland sites	Restored Ancient woodland	832m	
Wildlife sites (closest being Ffordd Marlborough road).	Wrexham Industrial Estate	40m	This is a series of sites within the industrial estate which includes unmanaged grassland at Bryn Road and on Cefn Park land and ancient broadleaved woodland, Erlas Black Wood. The derelict land known as Cefn Park, on the southern edge of the Industrial Estate, consists of a complex mosaic of scrub, grassland and tall herb. Species-rich grassland occurs where there is rabbit grazing with cowslip, restharrow, yellowwort, common centuary and bird'sfoot trefoil. Other species of interest include dyer's greenweed in among scrub and grass vetchling in rank grassland. Worn paths and motorbike tracks criss-cross the site and many species present such as prickly lettuce, smith's pepperwort and bristly ox-tongue typify disturbed ground. A mosaic of woodland and damp grassland occurs adjacent to the River Clywedog. The woodland is dominated by mature hawthorn with alder and crack willow along the river. The ground flora is sparse but dog's mercury, hart's tongue and male fern do occur. Meadowsweet, great willowherb, and canary reed grass occur in the damper patches. The strip of species-rich grassland beside a ditch on Bryn Road has similar grassland species including the uncommon grass vetchling. False fox sedge, yellow flag and bullrush are a few of the species which occur in the ditch. Erlas Black Wood is dominated by mature oak.

Priority Habitats and species records

4.3 The full list of section 7 habitats and species of principle importance in Wales has been reviewed. See table 4.

Table 4 – Protected and priority species

Designation/Feature	Description
Protected and Priority Species Records from the last 10 years within 1 km	The following species have been recorded within 1 km of the Project Site in the last 10 years: Plants: penny royal (<i>Mentha pulegium</i>) Amphibians: • Common Toad (<i>Bufo bufo</i>) • Great Crested Newt (<i>Triturus cristatus</i>) Invertebrates: • Scarce four-dot-palp (<i>Bembidion quadripustulatum</i>) • Cinnabr (bTyria jacobaeae) • Dingy skipper (<i>Erynnis tages</i>) • Grizzled skipper (<i>Pyrgus malvae</i>) • Latticed heath (<i>Chiasmia clathrata</i>) • Shaded broad-bar (<i>Scotopteryx chenopodiata</i>) • Small heath (<i>Coenonympha pamphilus</i>) • Small phoenix (<i>Ecliptopera silaceata</i>) Reptiles: • Slow worm (<i>Anguis fragilis</i>) • Adder (<i>Vipera berus</i>) Birds: • Black headed gull (<i>Larus ribibundus</i>) • Bullfinch (<i>Pyrrhula pyrrhula</i>) • Cuckoo (<i>Cuculus canorus</i>) • Dunock (<i>Prunella modularis</i>) • Grasshopper warbler (<i>Locustella naevia</i>) • Herring gull (<i>Larus argentatus</i>)

	• House sparrow (<i>Passer domesticus</i>) • Kestrel (<i>Falco tinnunculus</i>) • Lapwing (<i>Vanellus vanellus</i>) • Linnet(<i>Carduelis cannabina</i>) • Reed bunting (<i>Emberiza schoeniclus</i>) • Skylark (<i>Alauda arvensis</i>) • Song thrush (<i>Turdus philomelos</i>) • Spotted flycatcher (<i>Muscicapa striata</i>) • Starling (<i>Sturnus vulgaris</i>) Mammals: • Common Pipistrelle (<i>Pipistrellus pipistrellus</i>) • Hedgehog (<i>Erinaceus europaeus</i>) • Noctule bat(<i>Nyctalis noctua</i>) • Soprano pipistrelle (<i>Pipistrellus pygmaeus</i>)
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4.4 There are 6 records of Otter (*Lutra lutra*) within the 1km search.

4.5 There are no records of Water vole (*Avicola amphibious*) within the 1km buffer of the site.

4.6 The following habitats are on the development site and the immediate adjacent surrounding area.

Table 5 Habitats within the development site

Habitat	Description	Section 7 habitat
Building	There is one building within the development site. The building was assessed for the potential bats utilising.	No
Hedgerow	There is one hedgerow which sits south of the development site. The hedgerow is on the other side of the metal fencing.	Yes
Fences	Metal fencing encloses the development site.	No
Hard standing	There is hard standing within the ownership footprint but not where development is proposed. The hardstanding consists of car park and drive way.	No

Scattered scrub	There is scattered scrub within the development site. It is mainly willow regeneration.	No

Figure 2 - Westward view of the site



Figure 3 - View to South of the site



Figure 4 - View to the west of the site



Figure 5 - View from the northern boundary fence line.



Figure 6 - Ffordd Marlborough Road wildlife site.



Invasive and protected plant species

4.8 No protected (Schedule 8 of the Wildlife & Countryside Act 1981) plant species were observed during the habitat survey

4.9 Himalayan balsam, Giant hogweed, Japanese knotweed and Azolla within 1km.

Connectivity with the wider area

4.10 The site has poor connectivity to the wider area as it is surrounded by dense industrial development including roads. However, Wrexham Industrial Estate does support a variety of species that are under threat. By maintaining habitats via corridors and stepping stone will provide areas for wildlife to thrive.

4.11 The site does contain hedgerows which are classed as good wildlife corridors for many different species and are of particular importance for bats and birds.

Fauna

Amphibians

4.12 The closest pond to the development site is located 300 metres away. The rough grassland and hedgerows do offer opportunity for foraging, connectivity and overwinter habitat for amphibians.

4.13 There is no evidence of amphibians on the proposed development site however, there is a significant population of Great Crested Newts on the Wrexham Industrial Estate, and the site does offer terrestrial habitat.

Reptiles

4.14 There was no evidence of reptiles on site.

Bats

4.15 There are no trees or suitable buildings on site with potential to support roosting bats.

4.16 The hedgerow and dense scrub offers some minor foraging and commuting potential to local bats but this is limited by the lack of connectivity to the wider area. In addition these habitats are to be retained during and post development, with enhancement of these features.

4.17 There are no implications with regard to bat species.

Badger

4.18 Desktop records were returned for badger within 861m of the proposed development site. Evidence of badger such as latrines, snuffle holes, setts etc. was searched for and no evidence of badger activity was found.

Birds

4.19 The habitat on site does offer nesting, foraging and commuting potential for the local bird population. Extensive bird records were returned within 1km, and include and number of Schedule 1 and Section 7 protected species.

Invertebrates

4.20 A large number of protected invertebrates were returned within the desktop records. The site is predominantly rough grassland which currently is un-manged. The enhancement prescriptions will include the creation and management of habitat or butterfly banks which will benefit a variety of invertebrates.

Other species

4.21 No other species of concern were identified during the phase 1 habitat survey however the scrub along the site boundary may support a small number of hedgehogs.

5.0 Conclusions

5.1 The proposals for the site include the loss of approximately 50% of the rough grassland on site. The scrub and other boundary vegetation will be removed to provide an area for the creation of invertebrate habitat banks or butterfly banks using the material at site and allowing self seeding. A management and monitoring programme will be established to maintain the area.

Protected sites and habitats

Amphibians

5.2 There is potential for the site to be used by terrestrial amphibians.

Bats

5.3 There are no trees or buildings on site with potential to support roosting bats.

5.4 The hedgerow and dense scrub offers some minor foraging and commuting potential to local bats but this is limited by a lack of connectivity to the wider area.

5.5 There is minimal implications with regard to bat species.

Badger

5.6 No evidence of badger was found on site. There are no implications with regard to the development and badger.

Birds

5.7 The hedgerow and scrub on site have potential to support nesting birds. A small population of local bird species are likely to use the site for foraging, commuting and nesting.

Other species

5.8 The hedgerows and rough grassland offer foraging, commuting and hibernation potential to local hedgehogs.

6.0 Recommendations

6.1 No impacts on protected sites are predicted from this development due to the small scale of development.

6.2 The site contains habitat suitable to support nesting birds. The rough grassland area required to be disturbed should be undertaken outside the nesting bird season (March - August inclusive). If this is not possible a check must first be undertaken by a suitably qualified ecologist to ensure no nesting birds are present.

6.4 Any excavations on site will not be left exposed at night. Any pipes will also be sealed overnight.

6.5 A suitable experienced ecologist will be present for the immediate preparation of the ground works.

Biodiversity enhancement opportunities

6.7 The surrounding area is of most value for its semi-improved grassland for grizzled skippers. Habitat banks in open sunny areas would therefore be appropriate. The following habitat enhancements have been proposed:

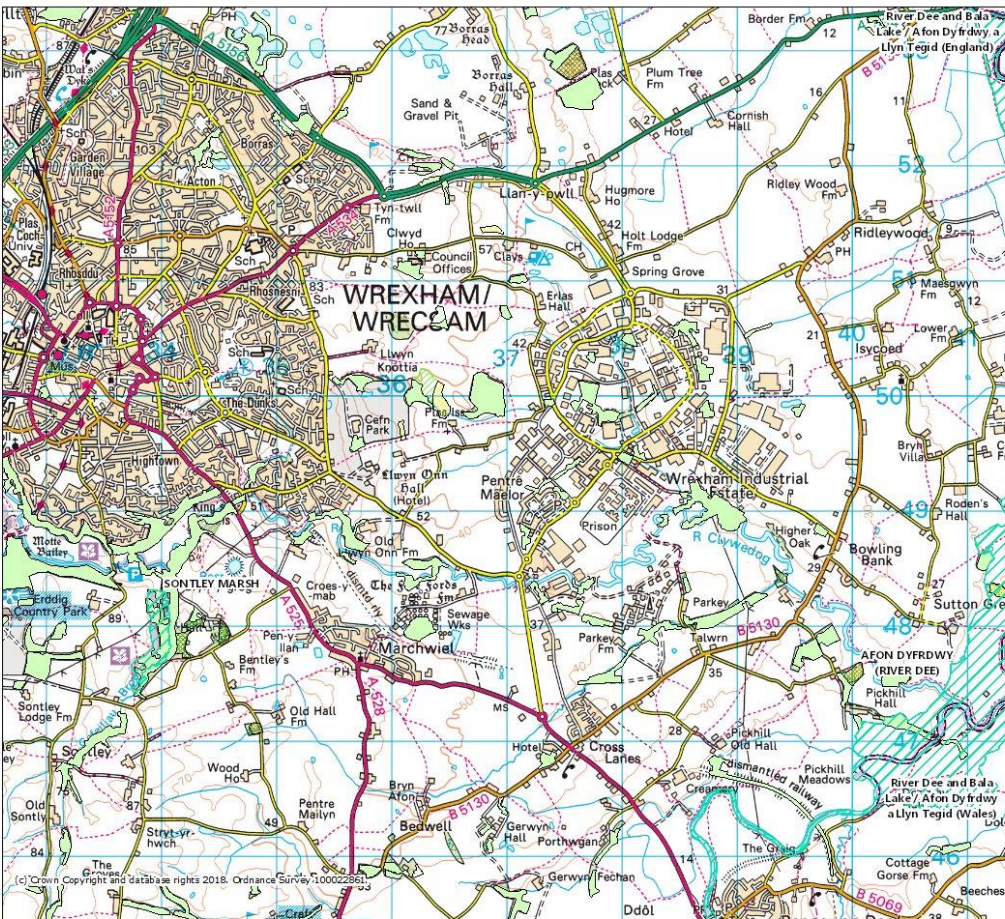
- Construction of invertebrate habitat banks, south facing, topped with aggregate and left to self seed to benefit grizzled and dingy skippers species in particular.
- An open south facing aspect to be created by removal of scrub species to the south.
- Management of the remaining grassland area and perimeter scrub. Management prescriptions will be provided by the ecologist.
- For further detail on the creation of habitat banks visit: <https://butterfly-conservation.org/sites/default/files/1.butterfly-bank-factsheet.pdf>. There are good local examples at the nearby Marford Quarry Reserve, managed by North Wales Wildlife Trust. <https://www.northwaleswildlifetrust.org.uk/nature-reserves/marford-quarry>

Table 6 Habitats within the development site and proposed mitigation site

Habitat	Description	Current m2	Post Development m2
Hedgerow	There is one hedgerow which sits south of the development site. The hedgerow is on the other side of the metal fencing.	150m strip	No increase in hedgerow proposed
Bare Ground	Small area of bare ground/hard standing throughout development site	30m ²	An increase in bare ground will be created by the construction of the habitat banks as they will be bare earth. Approx 120m ²
Scattered scrub	There is scattered scrub within the development site. It is mainly willow regeneration. Other species include young ash, hawthorn, oak, bramble & rose	325m ²	Majority of scrub will be cleared to allow for habitat banks with grassland species succession encouraged.
SI Grassland	Rough grass areas are interspersed throughout pre development. Grassed areas to be increased post development as area recolonises around habitat banks and is managed as grassland with a cutting and mowing regime	325m ²	Grassland area cover will increase as site succession develops around the creation of the earth habitat banks to approx 560m ²
Habitat banks	To be created post development to encourage insect biodiversity, 60m in total approx 2meters wide	0m ²	120m ²

APPENDIX A: Desktop Study

Map of Protected habitats

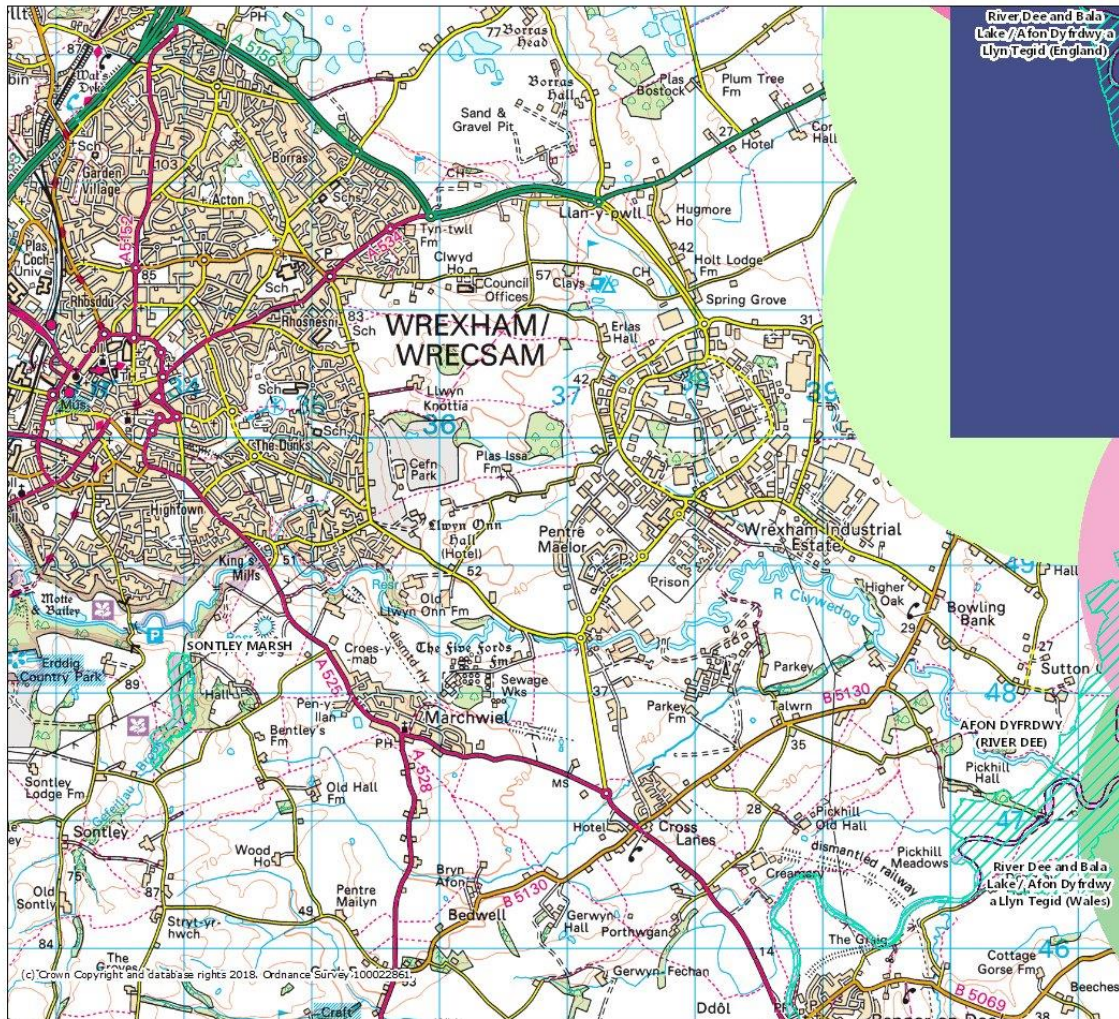


Legend

- ☒ Sites of Special Scientific Interest (Wales)
☐ Special Areas of Conservation (Wales)

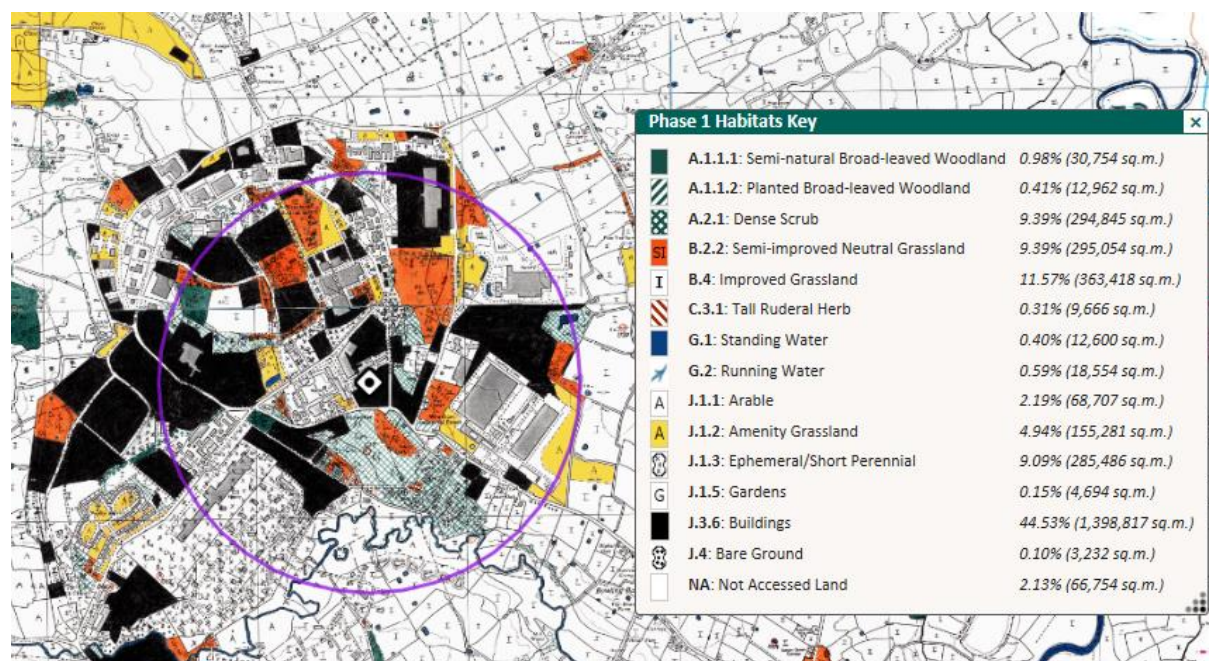
MAGiC

Abbey Road South, WIE



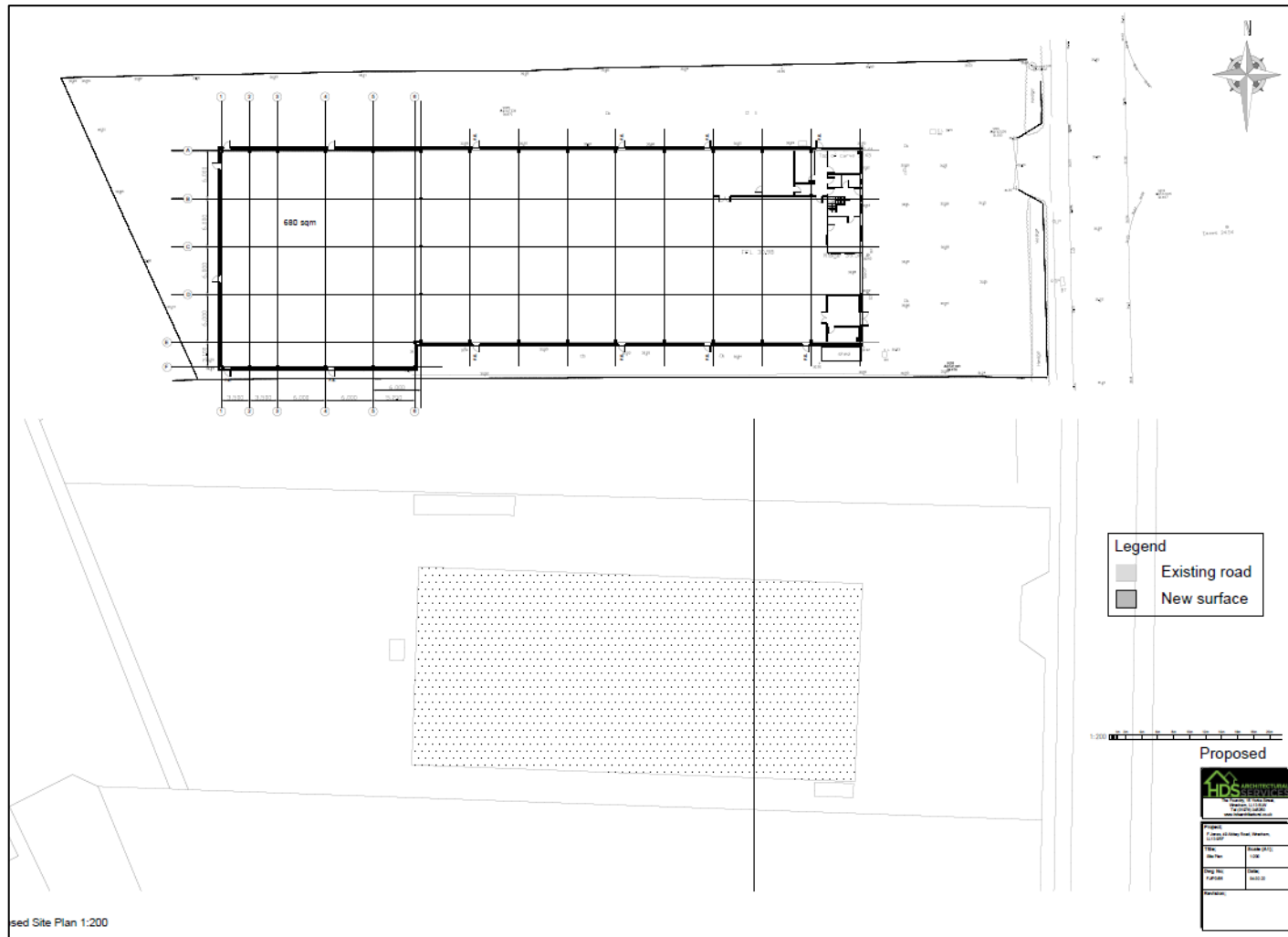
Legend

- Sites of Special Scientific Interest (Wales)
- Special Areas of Conservation (Wales)
- Priority Species for CS Targeting - Brown Hairstreak
- Priority Species for CS Targeting - Corn Bunting
- Priority Species for CS Targeting - Curlew
- Priority Species for CS Targeting - Lapwing
- Priority Species for CS Targeting - Redshank
- 6
- Grassland Assemblage Farmland Birds (England)
- 2
- 3
- 4
- 5
- Black Grouse (England)
- Cirl Bunting (England)

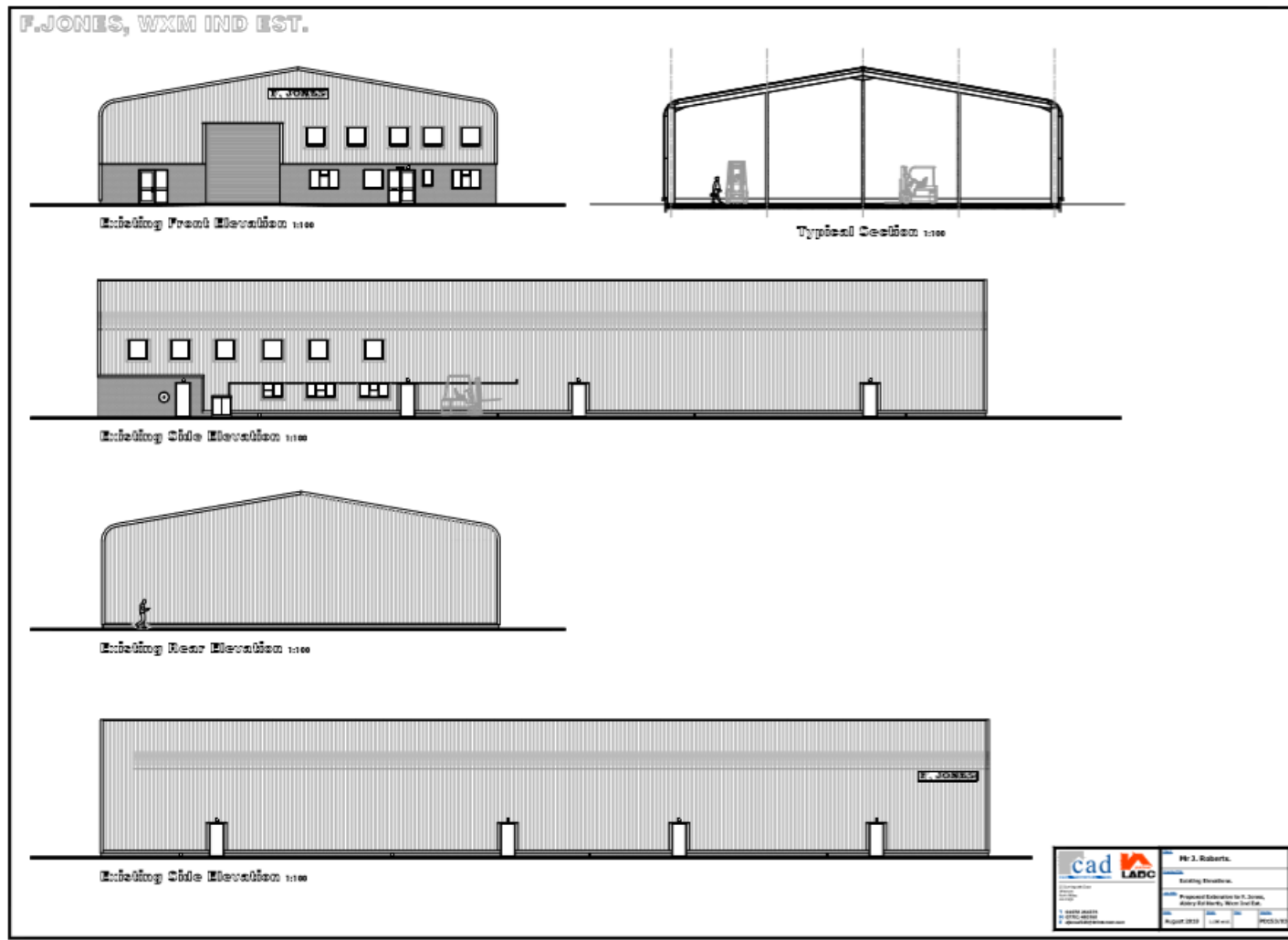


Drawings

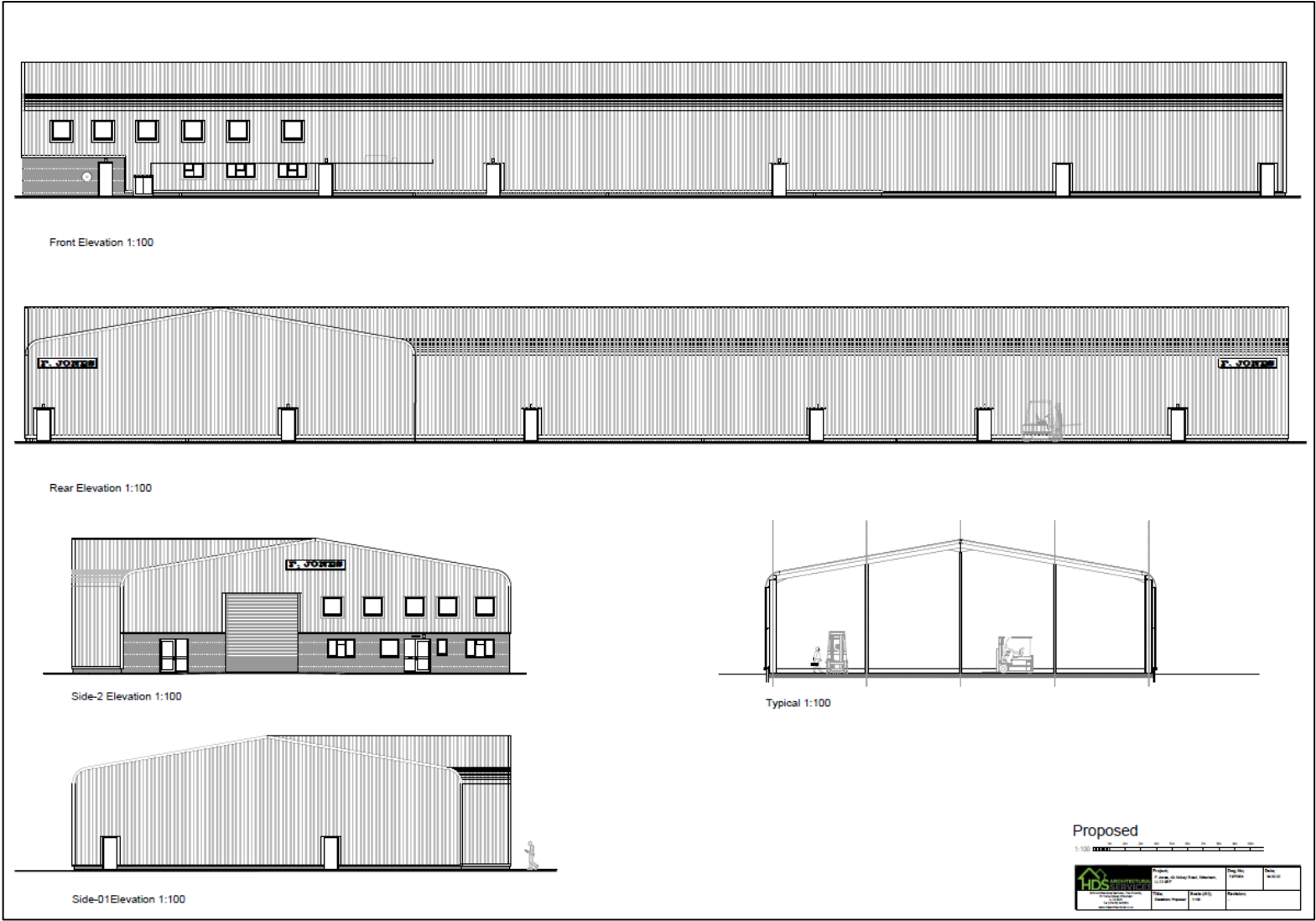
Drawing 1 – Proposed and Existing site plan



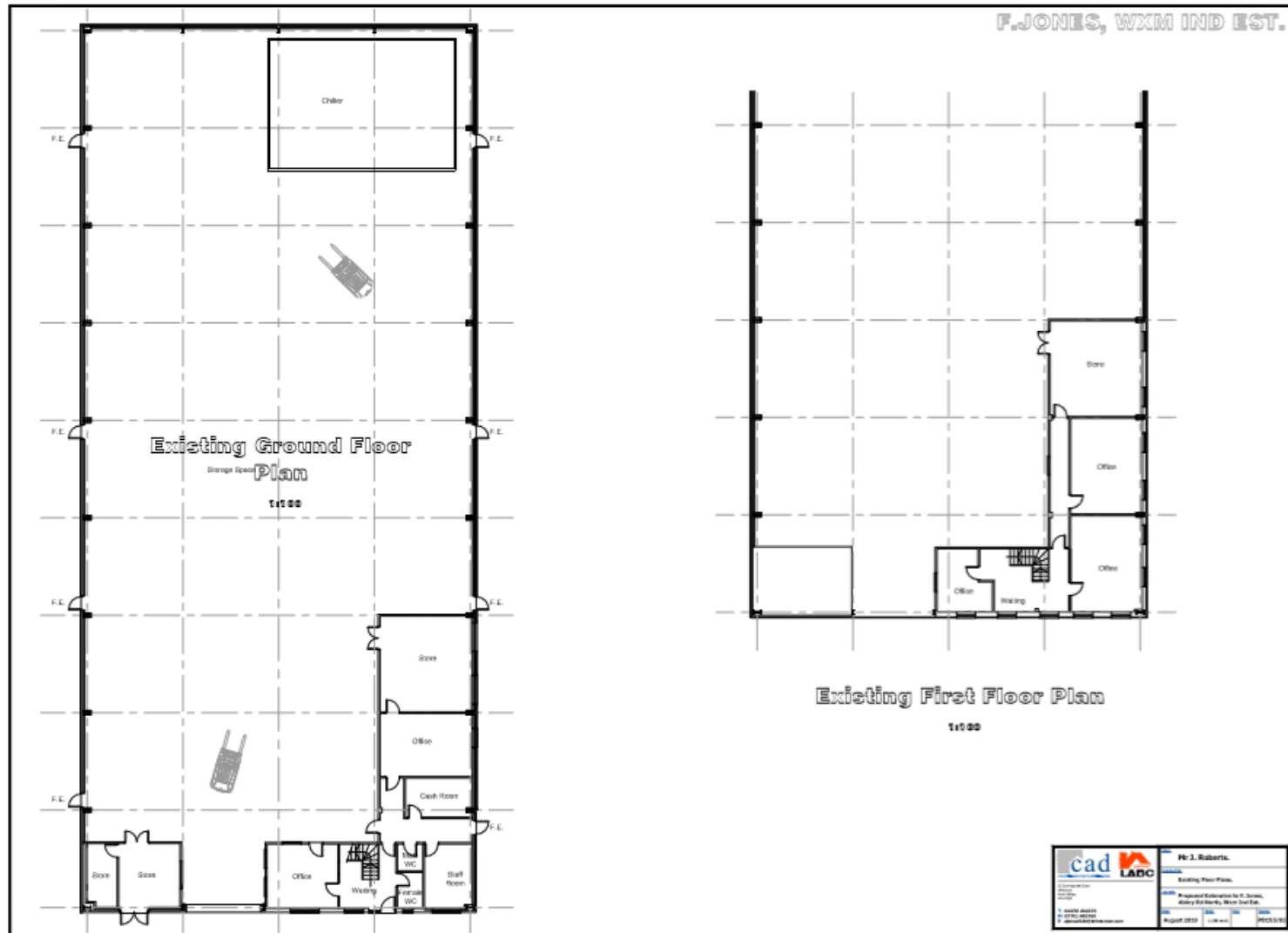
Drawing 3 – Existing elevations



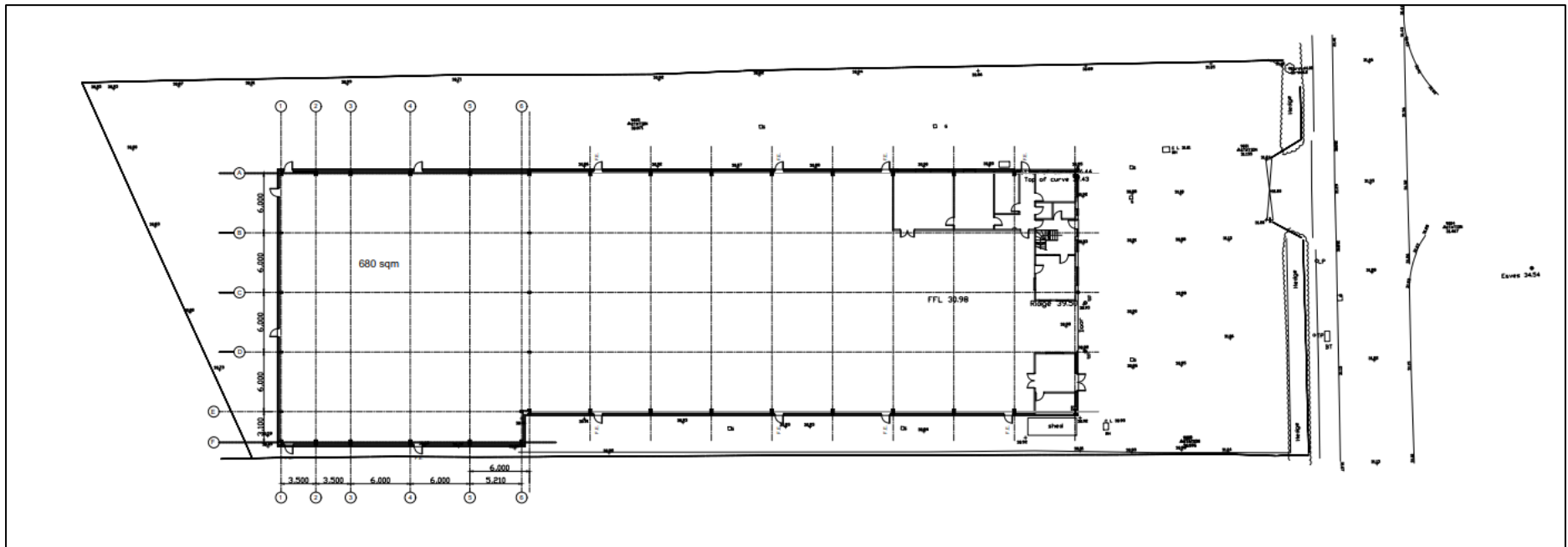
Drawing 4 – Proposed elevations



Drawing 5 – Existing floor plan



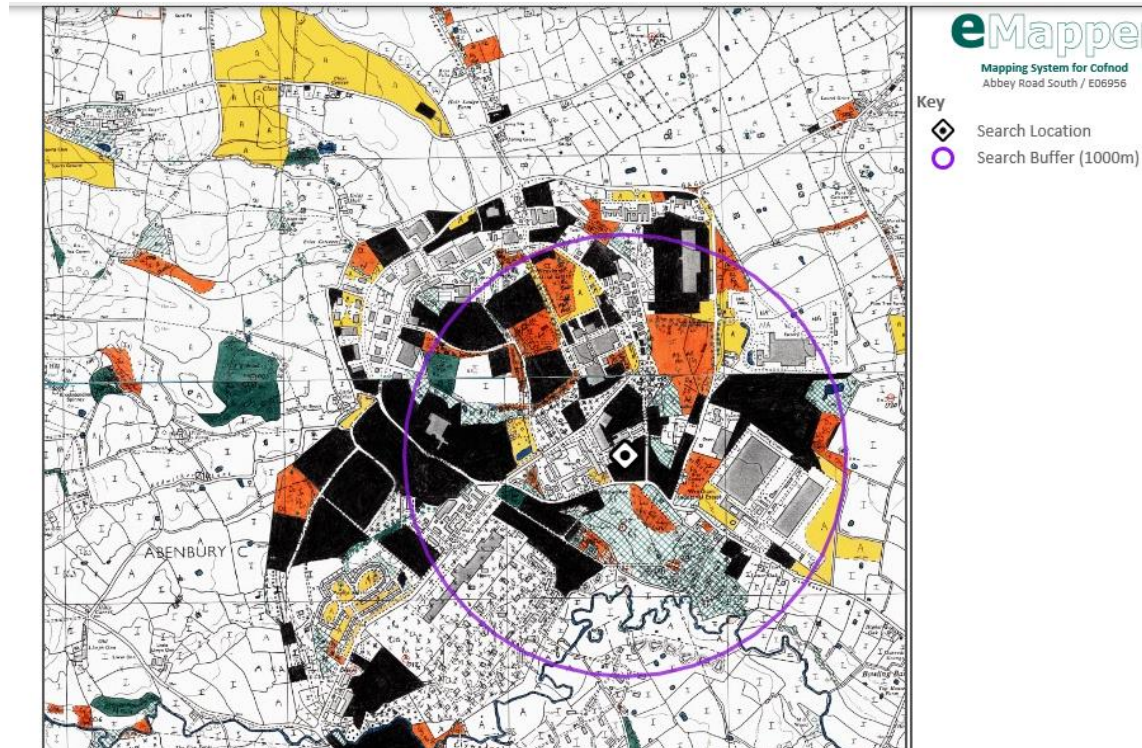
Drawing 6 – Proposed floor plan



Appendix 2

Map provided by Cofnod of site designations and species records within 1km

Map not to be put into public domain



Phase 1 Habitats Key

	A.1.1.1: Semi-natural Broad-leaved Woodland	0.98% (30,754 sq.m.)
	A.1.1.2: Planted Broad-leaved Woodland	0.41% (12,962 sq.m.)
	A. 2.1: Dense Scrub	9.39% (294,845 sq.m.)
	B. 2.2: Semi-improved Neutral Grassland	9.39% (295,054 sq.m.)
	B.4: Improved Grassland	11.57% (363,418 sq.m.)
	C. 3.1: Tall Ruderal Herb	0.31% (9,666 sq.m.)
	G.1: Standing Water	0.40% (12,600 sq.m.)
	G.2: Running Water	0.59% (18,554 sq.m.)
	J.1.1: Arable	2.19% (68,707 sq.m.)
	J.1.2: Amenity Grassland	4.94% (155,281 sq.m.)
	J.1.3: Ephemeral/Short Perennial	9.09% (285,486 sq.m.)
	J.1.5: Gardens	0.15% (4,694 sq.m.)
	J.3.6: Buildings	44.53% (1,398,817 sq.m.)
	J.4: Bare Ground	0.10% (3,232 sq.m.)
	NA: Not Accessed Land	2.13% (66,754 sq.m.)

Extract of species data provided by COFNOD within 1km

Bees, Wasps, Ants and Sawflies											
Distance	Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
95m	Andrena (Poecilandrena) labiata (Red-girdled Mining Bee)	SJ385495	2 records, both in 1993	J.B. Formstone; Formstone, Mr J.B.			The Oaks		D1070/002/01	RD2(UK)NA	3
409m	Andrena (Poecilandrena) labiata (Red-girdled Mining Bee)	SJ386492	4 records, between 1991 and 14/05/1993	J.B. Formstone; Formstone, Mr J.B.	1 Adult		Wrexham industrial estate	Method: Netted	D1070/002/01 , D1650/001/02	RD2(UK)NA	3
929m	Andrena (Poecilandrena) labiata (Red-girdled Mining Bee)	SJ392502	2 records, both on 11/05/1999	J.B. Formstone; Bryan Formstone	1 Adult; 1 Male	Netted	Owens Corning Factory	Method: Netted; Netted from the blue flower of Germander Speedwell (Veronica chamaedrys)	D1650/001/02 , D1453/001/01	RD2(UK)NA	4

								near the new fishing pool			
Butterflies and Moths											
Dist Species anceName		Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
78m	Pyrgus malvae (Grizzled Skipper / Gwibiwr Brith)	SJ38604969 (Selected from Interactive Map)	04/06/20 15	Emma Broad	1 Adult		Abbey Road		D1117/001/01	RD1(UK) VU, S7, LBAP[DE N, FLI]	4
95m	Ecliptoper a silaceata (Small Phoenix / Ffenics Bach)	SJ385495	1972 - 1973	Z.D. Zamojski;Mold NCC Files			Wrexham Industrial Estate		D0217/001/03	S7, LBAP[GW Y]	3
95m	Hemistola chrysopra saria (Small Emerald / Emrallt Barf yr Hen Wr)	SJ385495	1972 - 1973	Z.D. Zamojski;Mold NCC Files			Wrexham Industrial Estate		D0217/001/03	S7, LBAP[GW Y]	3

95m	Watsona lla binaria (Oak Hook-tip / Bachad ain y Deri)	SJ385495	1972 - 1973	Z.D. Zamojski;Mold NCC Files			Wrexham Industrial Estate		D0217/001/03	S7, LBAP[GW Y]	3
152m (1km)	Erynnis tages (Dingy Skipper / Gwibiwr Llwyd)	SJ3849	2 records, between 12/05/20 00 and 15/05/20 00	Anon					D0217/001/03	RD1(UK) VU, S7, LBAP[CO N, FLI, GWY]	3

152m (1km)	Pyrgus malvae (Grizzled Skipper / Gwibiwr Brith)	SJ3849	2 records, between 12/05/2000 and 15/05/2000	Anon	11 Adult; 3 Adult		The Oaks		D0217/001/03	RD1(UK) VU, S7, LBAP[DE N, FLI]	3
195m	Erynnis tages (Dingy Skipper / Gwibiwr Llwyd)	SJ383496 (Selected from Interactive Map)	21/05/2017	Steve Palin	1 Adult		Wrexham Industrial Estate	Seen by Wrexham NWWT group on organised walk by Jonny	D1117/001/01	RD1(UK) VU, S7, LBAP[CO N, FLI, GWY]	4

195m	Pyrgus malvae (Grizzled Skipper / Gwibiwr Brith)	SJ383496 (Selected from Interactive Map)	21/05/2017	Steve Palin	3 Adult		Wrexham Industrial Estate	Seen by Wrexham NWWT group on organised walk by Jonny	D1117/001/01	RD1(UK) VU, S7, LBAP[DE N, FLI]	4
221m	Coenonympha pamphilus (Small Heath / Gweirlöyn Bach y Waun)	SJ386494	21/05/2014	Clare Williams			The Oaks		D1643/001/01	RD1(UK) NT, S7, LBAP[GW Y]	3

221m	Pyrgus malvae (Grizzled Skipper / Gwibiwr Brith)	SJ386494	1993				Site name protected 15429827		D1161/001/01	RD1(UK) VU, S7, LBAP[DE N, FLI]	3
259m	Pyrgus malvae (Grizzled Skipper / Gwibiwr Brith)	SJ3864649406		Clare Williams	1 Adult		Wrexham Industrial Estate: Redwither	Species survey	D1466/001/01	RD1(UK) VU, S7, LBAP[DE N, FLI]	3
283m	Erynnis tages (Dingy Skipper / Gwibiwr Llwyd)	SJ383498	21/05/2014	Clare Williams	1		Bridge Rd North		D1643/001/01	RD1(UK) VU, S7, LBAP[CO N, FLI, GWY]	3

295m	Coenony mpha pamphilus (Small Heath / Gweirlöyn Bach y Waun)	SJ385493	5 records, between 01/06/1998 and 18/05/2010	Brian & Sue Roberts; Bryan Formstone; John V. Smith; Peter Heywood	3; 2; 2 Adult; 7 Adult		Wrexham Ind. Estate	Breeding: No. Mature: Yes. Record type: Field record / observation; JVS's Map Ref SJ 384493 : also recorded PBF not accepted yet. Field record / observation; Daytime observation	D1399/001/02 , D0127/001/02 , D1373/001/03	RD1(UK) NT, S7, LBAP[GWY]	4
295m	Erynnis tages (Dingy Skipper / Gwibiwr Llwyd)	SJ385493	10 records, between 29/05/2001 and 30/05/2010	John V. Smith; Peter Heywood; John Smith	2; 15 Adult; 20 Adult; 2 Adult; 10 Adult; 7 Adult; 4 Adult		Wrexham Industrial Estate	JVS's Map Ref SJ 384493 : also recorded PBF - not accepted yet. Field record / observation; Daytime observation	D1373/001/03	RD1(UK) VU, S7, LBAP[CON, FLI, GWY]	3

Birds											
Distance	Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
140m	Falco tinnunculus (Kestrel / Cudyll Coch)	SJ38544978 (Selected from	28/02/2015	Jonathan Hulson	1 Full-Grown		Marlborough Road, Wrexham Industrial Estate	Hunting over this area of rough grassland throughout the day	D1117/001/01	Bern, CITES, S7, UKBA, WBR,	1

		Interactive Map)								LBAP[ANG, CON, DEN, FLI, GWY]	
152m (1km)	Falco tinnunculus (Kestrel / Cudyll Coch)	SJ3849	2 records, between 16/04/2008 and 17/03/2009	Norman 1 Hallas			Wrexham, Industrial Estate, W		D1297/002/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	1
152m (1km)	Sturnus vulgaris (Starling / Drudwen)	SJ3849	01/03/2007	JA Jackson Per JLR	50+		Wrexham, Industrial Estate, W	Birds gathering between Redwither pub and Firestone site	D0062/001/01	BAP, BDir2.2, Bern, S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3
152m (1km)	Hirundo rustica (Swallow / Gwennol)	SJ3849	6 records, between 03/10/2007 and 16/09/2010	Neil Hughes	2; 3 Adult; 3 Juvenile; 2 Adult; 6		Wrexham, Industrial Estate, W	2 with young; 3 young still on beam in warehouse; Still on same beam, parents trying to move young.	D0062/001/01 , D0062/003/01	Bern, WBA, LBAP[ANG, CON, GWY]	3

313m	Pyrrhula pyrrhula (Bullfinch / Coch y Berllan)	SJ386493 (Approximate)	23/07/20 16	Anne Brenchley		Auditory record	WIE 1. The Oaks LWS & River Clywedog		D1695/001/01	BAP, S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	1
359m	Falco tinnunculus (Kestrel / Cudyll Coch)	SJ382498 (Selected from Interactive Map)	23/07/20 16	Mick Brumma ge	1		Estate 		D1695/001/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	1

406m	Cettia cetti (Cetti's Warbler / Telor Cetti)	SJ384492 (Selected from Interactive Map)	21/05/20 17	Steve Palin	1 Adult Male		The Oaks, Wrexham Industrial Estate	Heard by many of Wrexham NWWT group led by Jonny Hulson	D1117/001/0 1	WCA1.1, LBAP[ANG]	1
409m	Apus apus (Swift / Gwennol Ddu)	SJ381497 (GPS Reading)	23/07/20 16	Jonatha n Hulson & Genevie ve Dalley	1 Adult	Live Sighting	WIE 1. The Oaks LWS & River Clywedog		D1695/001/0 1	UKBA, WBA	1
409m	Hirundo rustica (Swallow / Gwennol)	SJ381497 (GPS Reading)	23/07/20 16	Jonatha n Hulson & Genevie ve Dalley	1 Adult	Live Sighting	WIE 1. The Oaks LWS & River Clywedog		D1695/001/0 1	Bern, WBA, LBAP[ANG, CON, GWY]	1

483m	Picus viridis (Green Woodpecker / Cnocell Werdd)	SJ38114986 (Selected from Interactive Map)	15/04/2016	Jonathan Hulson		Live Sighting	Wrexham Ind Est	Suitable breeding habitat	D1117/001/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY, SNP]	1
535m	Delichon urbicum (House Martin / Gwennol y Bondo)	SJ38475017 (Selected from Interactive Map)	24/07/2016	Jonathan Hulson	5 Adult		Wrexham Industrial Estate		D1695/001/01	Bern, UKBA, WBA, LBAP[CON]	1

545m	Locustella naevia (Grasshopper Warbler / Troellwr Bach)	SJ387501 (Selected from Interactive Map)	26/04/2011		1 Adult	Auditory record	Bryn Lane Recycling Centre		D1117/001/01	S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	4
598m	Falco tinnunculus (Kestrel / Cudyll Coch)	SJ37954954 (Selected from Interactive Map)	24/05/2011	Jonathan Hulson	1 Sub-adult	Live Sighting	Wrexham Ind Est	Suitable breeding habitat	D1117/001/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	1
614m	Accipiter gentilis (Goshawk / Gwalch Marthin)	SJ386502 (Selected from Interactive Map)	16/02/2015	Jonathan Hulson	2 Full-Grown		Wrexham Industrial Estate	Circling high over Kelloggs/Bryn Lane	D1117/001/01	CITES, WCA1.1, WCA9, LBAP[CON]	4

755m	Cuculus canorus (Cuckoo / Cog)	SJ382489 (Approximate)	14/05/2007	John Smith	1		Calypso WIE	Heard	D1470/001/01	S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	4
755m	Sylvia communis (Whitethroat / Llwydfron)	SJ382489 (Approximate)	14/05/2007	John Smith	1		Calypso WIE		D1470/001/01	WBA, LBAP[CON]	4

(Whiskered Bat / Ystlum Barfog)							ir , R DD 2 (C K) , S O A 5 , E B A P A Z G , D E Z , E E G S Y S
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1 Nycsta m s n o c t u l e B at / Y st lu m M a w r)	S J 3 8 6 4 9 6 (App ro xi ma te) Faye Davies	WIE 8. Ecological compensation area	D 1 6 9 5 / 0 0 1 / 0 1	B e r n , E P S , H D ir , R D 2 (U K) , S 7 , W C A 5 , L B A		

[illegible]

								0 E N , T L - G V Y , S Z P 1
1 Pi 0 pi 5 st mre llu s p y g m a p e u s (S o p r a n o	S J 3 8 6 4 9 6 (A p p r o x i m a t e	23/07/2016	Faye Davies			WIE 8. Ecological compensation area		D 1 6 9 5 / 0 0 1 / 0 1 B e r n , E P S , H D i r , R D 2 (C C K) ,

Pi pi st re ll e / Y st lu m ll ei af U c h el s ai n)							S 7 , , V O A 5 , f B A p f A Z G , D E Z f f - , G S Y , S Z P J
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1 M 5 el 2 e ms (m 1 el ke ms) (B a d g e r / M o c h y n D a e a r)	3 records, between 02/01/2003 and 13/11/2007	Clwyd Badger Group (CBG)		Badger Sett		CBG Ref: B20.0. Please contact CBG for more details.; CBG Ref: B56.0. Please contact CBG for more details.; CBG Ref: B89.0. Please contact CBG for more details.	D 0 0 5 9 / 0 0 1 / 0 1 1	B e r n , P B A , L B A P [C O C N , D E N , F L V R E]
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[illegible]

	p)							A P P A N G C O N F E S S I O N S S E R I E S
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4 1 1 n	Pi pi st re llu s pi pi st re llu s ((C e c t m e d o f r o n o m P i p i s t r e l l e r / Y s t lu m L l e i af C yf fr	S U 13 18 11 13 14 9 6 7 (S (el C e ct m e d o f r o n o m P i p i s t r e l l e r / Y s t lu m L l e i af C yf fr	23/07/2016	Rhian Hughes		Auditory record	WIE 2. Redwither Brook	D B er n , B o nn n , E P S , H D ir . R D 2 (U K), S 7 . W C A 5 . L B
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4L 2u 0t mr a l u t r a (O t t e r / D y f r g i)	S J 3 8 1 2 4 9 6 4 (S e l e c t e d f r o m I n t e r a c t i v e M a p)	3 records, between 26/09/2016 and 13/02/2018	 Jonathan Hull Tomas Bunc	1 Sub-adult; 1 Adult; 1 Sub-adult Female; 1 Sub-adult Male		Redwither Brook	Video available on request; Recorded scent marking in a culvert. Video available upon request.	D 1 1 1 7 / 0 0 1 / 0 1 B e r n , C i t h e s , E p s , H o i r , P o 2 (C U X) , S 7 , V O A 5 , L B
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								A P L A N G C O Z O D E Z E F I G S Y S Z P V R E
4 L 3 u 0 t m r a l u t r	S J 3 8 1 1 4 9	3 records, between 16/08/2017 and 30/08/2017	Jonathan Hulson	1 Adult		Redwither Brook, Wrexham Industrial Estate	Trail cam footage available	D 1 1 1 1 7 / 0 0 1

a (O t t e r / D y f r i g i)	64 (S e l e c t e d f r o m I n t e r a c t i v e M a p)							S E P T E M B E R 2 0 1 1
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							DEPT. OF GOVERNMENT SERVICES
5 Pi 3 pi 2 st m re llu s (Pi pi st re llu s B at S p	S J 3 8 0 4 9 4	 08/07/2003	Anon	2		Bostock Air Conditioning	D 1 4 8 6 / 0 0 1 / 0 1

e ci e s)								D E N , F L I, S N P I	
7 2 4 mis (M y o t i s B (a t S P S e R c i e a s) d i n g)	S J 3 8 6 2 5 0 3 6 6 0 1 0 1	26/10/2016	Tom Knight & Max Ellson		Dung/Droppings /Frass/Pellet, etc.	Elm Point, Wrexham Industrial Estate	Approximately 30 recent probable Myotis sp. droppings in bat-box. Checked as accredited agent under licence held by Stan Irwin (Licence no. 73156:OTH:CSAB:2016).	D 1 6 9 6 / 0 0 1 / 0 1	B e r n , B o n n , E P S , H D i r , V O A 5 , L B A P

							[A N G , D E Z ., F L S Z P]
7M	S	01/06/2016	Tom Knight	1	Bryn Lane, Wrexham Industrial Estate	D	B e r n , W V , [B A P [A N G ' C O C
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Carrivm)	Interactive Map)							NFL]
7 Er 4 in 5 a nc e u s e ur o p a e us (H ed ge h o g	SJ3780449567	31/05/2017	Jonathan Hulson	1 Adult	Dead on road	Wrexham Industrial Estate	Time of sighting: 15:00; Habitat: Roadside	D13837001001

	/ D ra e n o g)						G W Y
Plants							
I S G ip ri ec d tie R is ef INer ae e m n e c e	Date	Recorder(s)	Abundance	Record Type	Site Name	C o m a s o m a s met ID	L i s t s
7 C m i c h o r i u m i n t y b u s (C	S J U 20/07/2015	Formstone, J.B.	6		Wrexham Industrial Estate	C o u n c i l R e s e r v e	D I L V C , V C 5 1] D11690042

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la d d e r / Y s g o l J a c o b)								N]	
1 5 2 a m (a 1 g r o k m) is e pi g ej o s (W o o d	S J J 3 8 14 9	11/06/2011	Shanklin, J.			Wrexham Industrial Site	S J 3 8 1 7 4 8 9 4 . L a r g e p a t c h	D 1 1 6 9 0 0 4 0 2	L B A P[G W Y] , L I[V C 4 8 , V C 4 9 ,

S m a l l - r e e d / C o r s e n F a c h y C o e d)						o n l i p o f d e p r e s s i o n	V C 5 0 , V C 5 1]	
1 C 5 re 2 pi ms (bi 1 e k n m ni) s (R o	S J 3 8 4 9	11/06/2011	BSBI		Wrexham Industrial Site	S J 3 8 8 9 . 4 9 1 5	D 1 1 6 9 0 0 4 0 2	R D 1(W a l e s) D D , L B

152 mix (mink mis) x cinerea = S. x holosericea (Silkyleaved	SJ3849	11/06/2011	Shanklin, J.			Site		SJ384918	D116904918	LI[V C50, V C51]
								Onside of shallow ditch		

O s i e r)								
1 5 2 p m a t (i e n s k m g l a n d u l i f e r a (H i m a l a y a n B a l s a m / J a	S 11/06/2011	BSBI			Wrexham Industrial Estate	D 11/06/2009 11/06/2009 11/06/2009	I N S, W C A 9	

c y N e i d i w r)									
2 2 1 m S t a t i n c t o r i a (D y e r s G r e e n w e e d / M e	27/06/2007	Lawton Roberts, J.			Wrexham Industrial Estate	C e f n P a r k: u n c u t g r a s s y a r e a	D1169/004/002	L I [V C 4 9 , V C 5 0 , V C 5 1]	

ynogywaun)								
2 C 8 re 3 pi ms bi e n ni s (R o u g h H a w k' s- b e a r d /	S1161817494141 2 records, both in 1998	Anon			Wrexham Industrial Site	R e d w i t h e r.	D1169004002 , D00216001003	R D 1(W al e s) D D , L B A P[C O N], L I [V C 5 0]

G w a l c h l y s G a r w)								
2 8 3 u m s i l a u s (P e p p e r- s a x i f r a g e / F	S 07/08/2009	Graham, A.N.			Wrexham Industrial Site	<u>D</u> <u>1</u> <u>1</u> <u>6</u> <u>9</u> <u>0</u> <u>0</u> <u>4</u> <u>0</u> <u>2</u>	LI [V C 5 0]	

fe ni gl yr H w c h)									
3M 1e 3nt mh a ar v e n s (s (C o r n M e in) t/ M in ty s yr Â r)	S J 1 3 3 8 6 4 9 3 (A p p r C o x i m a t e	23/07/2016	Hilary Ash				WIE 1. The Oaks LWS & River Clywedog	D 1 1 6 9 5 0 0 0 1 0 1	LI [V C 5 0]

313mat	Site S J 3 8 6 4 9 3 (A p p r o x i m (H e) m a l a y a n B a l s a m / J a c y N ei	23/07/2016	 Hilary Ash			WIE 1. The Oaks LWS & River Clywedog	D1695/001/01	I N S, W C A 9
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3 2 6 m	On 6 ni s s pi n o s a ((S el pie n ct y e R d e fr sto h m a rr In o te w ra / ct iv T e a M g a p) r a d r P ig o	23/07/2016	Mick Brummage			Wrexham Industrial Estate	L o c a l l y A b u n d a n t	D 1 6 9 5 0 0 1 0 1	L I V C 4 9 . V C 5 0 . V C 5 2]
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g)								
3 9 3 myr u s ni s s ol ia ((G r a c t e d s d V fr et c hl in g / Y tb y s e n F ei	S J 3 8 1 6 4 9 7 4 (S (G r a c t e d s d V fr et c hl in g / Y tb y s e n F ei	23/07/2016	Jonathan Hulson	1 Fruiting		WIE 2. Redwither Brook	D 1 6 9 5 0 0 1 0 1	LI [V C 4 9, V C 5 0]

nd d ai l)								
3 R 9 or 5 ip mp a a m p hi bi a p (r Go r xi e m at at Ye el) lo w - cr e s s / B e r w r	S J 3 8 1 4 9 6 1 0 1 0 1	23/07/2016	Hilary Ash			WIE 2. Redwither Brook	D 1 6 9 5 0 0 1 0 1	LI [V C 5 0, V C 5 1]

M e l y n M a w r)									
Reptiles and Amphibians									
[Sp ieci es tNa ame r c €	Gri d Re fer en ce	D at e	Recorder(s)	Ab un da nc e	Record Type	Site Name	Comments	Da ta se t ID	Li st s
1 An 5 gu 2 is m fra (gili 1 s k m) (S lo w- w or m / N ei dr	S J3 84 9	2 r e c o r d s, b o t h in	Consultant; Young Assoc.			Wrexham Industrial Estate	Habitat: Scrub, grassl'd	D 10 76 /0 01 /0 2 , D 00 35 /0 02 /0 1	B e r n, S 7, W C A 5, L B A P [A N

D de fai d)								G , C O N , D E N , F L I , G W Y , S N P J
V i p e 1 5 2 m b (1 k m) (A d d	S J3 84 9	2	Consultant; Young Assoc.		Wrexham Industrial Estate	Habitat: Scrub, grassl'd	D 10 76 /0 01 /0 2 D 00 35 /0 02 /0 1	B e r n, S 7, W C A 5, L B A P

er / Gwiber)		1999							[ANGCON'DENFLI'GWY'SNP]
1 Bu 8 fo 4 bu m fo (C o m m up on pli To ed ad by	S J3 86 34 94 8 (S up pli ed by	2	Mandy Cartwright	1		WIE 1. The Oaks LWS & River Clywedog	Sub-Adult	D 16 95 /0 01 /0 1	B e r n s 7, W C A 5,

/ Li yff an t	Or igi na l	R ec or de r)						L B A P [A N G , C O N , D E N , F L I , G W Y]
3 Tri 0 tur 5 us m cri st at us (G re at Cr es	S J3 88 49 6	0 4 / 0 4 / 2 0 0 5 -	Ben Milner			Oth:sa:32:2005		D 13 17 /0 01 /0 2 B e r n, E P S , H D ir,

ted Newt / Mad fal l D d wr Gr ib og)		09 / 04 / 2005						RD2(UK),S7,WCA5,LBAP[ANG,CON, DEN,FLI,SN
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								P , W R E]
3 8 4 m	Lis so trit on vul ga ris (S (S m oo th N e wt / M ad fal l D d wr G yff re di n)	SJ 38 55 75 00 28 S up pli ed by Or igi na l R ec or de r) 2 6 / 0 4 / 2 0 0 7 a n d	Tom Knight	9 Ad ult M ale ; 9 Ad ult Fe m ale ; Eg g; 32 Ad ult M ale ; 19 Ad ult Fe m ale ; 8 Ad ult M ale ; 9	Torch Count; Bottle Trap			D 13 20 /0 14 /0 1 B er n, W C A 5, L B A P [C O N , D E N , F L I]

		22/05/2007	Adult Female; 28							
			Adult Male; 19							
			Adult Female; 6							
			Adult Male; 5							
			Adult Female; 2							
			Larva/Tadpole							

				ole; 9 Adult Male; 12 Adult ...					
3 Ra 8 na 4 te m m po rar ia (C o m m on Fr og / LI yff an t M el	S J3 85 57 50 02 8	2 r e c o r d s, b e t w e e n 0 8 / 0 5 / 2 0	Tom Knight	1 Adult (Sex Unknown)	Torch Count	Wrexham Ind Estate Central: P13 (Isringhausen P1)		D 13 20 /0 14 /0 1	B e r n, H D ir, W C A 5, L B A P [A N G , C O

yn)	07 and 18 / 05 / 20 00 7					N , F L I]
3 8 4 m cri st at us (S (G re at Cr es te d N e wt / M ad	8 Tom Knight SJ 38 55 75 00 28 r d s, up b re p li et at ed w by e Or e igi n na I 2 6/ R 0 ec 4/ or 2 de 0 r) 0	3 Ad ult Fe m ale ; Eg g; 3 Ad ult Fe m ale ; 1 Ju ve nil e Fe m	Torch Count; Bottle Trap	Wrexham Ind Estate Central: P13 (Isringhausen P1)		D 13 20 /0 14 /0 1 B e r n, E P S , H D ir, R D 2 (U K), S 7, W

	fal l D d wr Gr ib og)	7 a n d 2 2/ 0 5/ 2 0 0 7	ale ; 2 Ad ult M ale ; 1 Ju ve nil e Fe m ale ; 2 Ad ult M ale ; 2 Ad ult Fe m ale ; 1 Ad ult M ale ; 2 Ad ult M ale ; 1					C A 5, L B A P [A N G , C O N , D E N , F L I , S N P , W R E]
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es te d N e wt / M ad fal l D d wr Gr ib og)	e e n 2 6 / 0 4 / 2 0 0 7 a n d 2 2 / 0 5 / 2 0 0 7						R D 2 (U K) , S 7, W C A 5, L B A P [A N G , C O N , D E N , F L I , S N
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								P , W R E]
4 2 6 m	Lis so trit on vul ga ris (S (S m oo th N e wt / M ad fal l D d wr G yff re di n)	SJ 38 12 14 96 88 (S up m oo ed th by N Or e wt na / I M ad R fal ec l or de r) d wr G yff re di n)	6 Joe Whittick	2 Ad ult Fe m ale ; 1 Ad ult Fe m ale ; 1 Ad ult M ale ; 1 Ad ult Fe m ale ; 1 Ad ult	Torch Count; Bottle Trap	Wrexham Ind Estate Central: P15 (Ash Road South)	D 13 20 10 14 10 1	B e r n, W C A 5, L B A P [C O N , D E N , F L I]

		31/05/2012		Male					
4 2 6 m	Tri tur us cri st at us (G re at Cr es te d N e wt / M ad fal l D d wr	S J3 81 21 49 68 8 (S up pli ed by Or igi na l R ec or de r)	4 Joe Whittick	1 Ad ult M ale ; 1 Ad ult Fe m ale ; 1 Ad ult M ale ; 1 Ad ult Fe m ale	Torch Count; Bottle Trap	Wrexham Ind Estate Central: P15 (Ash Road South)		D 13 20 /0 14 /0 1	B e r n, E P S , H D ir, R D 2 (U K) , S 7, W C A 5,

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4 Tri 3 tur 1 us m cri st at us	S J3 88 49 9	4 r e c o r d	Tom Knight		Oth:sa:140:2006		D 13 17 /0 01 /0 2 B e r n , E P S

(Great Crested Newt / Madfall Doddwr Grilog)	S, between 11/04/2007 and 22/05/2007						HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI
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Birds	<i>Cuculus canorus</i>	Cuckoo	Cog	2007	2013	4
Birds	<i>Cygnus olor</i>	Mute Swan	Alarch Dof	2006	2006	1
Birds	<i>Delichon urbicum</i>	House Martin	Gwennol y Bondo	2009	2016	2
Birds	<i>Emberiza schoeniclus</i>	Reed Bunting	Bras y Cyrs	2007	2009	2
Birds	<i>Falco peregrinus</i>	Peregrine	Hebog Tramor	2016	2016	1
Birds	<i>Falco tinnunculus</i>	Kestrel	Cudyll Coch	2008	2016	13
Birds	<i>Gallinago gallinago</i>	Snipe	Giach Cyffredin	2005	2009	2
Birds	<i>Hirundo rustica</i>	Swallow	Gwennol	2007	2016	18
Birds	<i>Larus argentatus</i>	Herring Gull	Gwylan y Penwaig	2012	2016	10
Birds	<i>Larus canus</i>	Common Gull	Gwylan y Gweunydd	2009	2009	1
		Lesser Black-backed	Gwylan Gefnddu			
Birds	<i>Larus fuscus</i>	Gull	Leiaf	2014	2016	3
Birds	<i>Linaria cannabina</i>	Linnet	Llinos	2004	2016	9
		Grasshopper				
Birds	<i>Locustella naevia</i>	Warbler	Troellwr Bach	2007	2011	3
Birds	<i>Muscicapa striata</i>	Spotted Flycatcher	Gwybedog Mannog	2006	2008	2
Birds	<i>Passer domesticus</i>	House Sparrow	Aderyn y To	2004	2016	12
Birds	<i>Periparus ater</i>	Coal Tit	Titw Penddu	2009	2009	1
Birds	<i>Phylloscopus trochilus</i>	Willow Warbler	Telwr yr Helyg	2005	2016	12
Birds	<i>Picus viridis</i>	Green Woodpecker	Cnocell Werdd	2007	2016	8
Birds	<i>Prunella modularis</i>	Dunnock	Llwyd y Gwrych	2008	2016	10
Birds	<i>Pyrrhula pyrrhula</i>	Bullfinch	Coch y Berllan	2004	2017	9
Birds	<i>Regulus regulus</i>	Goldcrest	Dryw Eurben	2009	2017	3
Birds	<i>Scolopax rusticola</i>	Woodcock	Cyffyllog	2018	2018	1
Birds	<i>Sturnus vulgaris</i>	Starling	Drudwen	2007	2016	8
Birds	<i>Sylvia communis</i>	Whitethroat	Llwydfron	2004	2016	14
Birds	<i>Turdus iliacus</i>	Redwing	Coch Dan Adain	2009	2016	4
Birds	<i>Turdus philomelos</i>	Song Thrush	Bronfraith	2007	2016	13
Birds	<i>Turdus pilaris</i>	Fieldfare	Socan Eira	2009	2016	5
Birds	<i>Tyto alba</i>	Barn Owl	Tylluan Wen	2006	2007	2

Birds	<i>Vanellus vanellus</i>	Lapwing	Cornchwiglen	2004	2009	2
Butterflies and Moths	<i>Chiasmia clathrata</i>	Latticed Heath	Seffyr Delltog	1999	2010	6
			Gweirlöyn Bach y			
Butterflies and Moths	<i>Coenonympha pamphilus</i>	Small Heath	Waun	1998	2018	53
			Crwbach Ffigwr			
Butterflies and Moths	<i>Diloba caeruleocephala</i>	Figure of Eight	Wyth	1999	1999	2
Butterflies and Moths	<i>Ecliptopera silaceata</i>	Small Phoenix	Ffenics Bach	1972	2009	3
Butterflies and Moths	<i>Erynnis tages</i>	Dingy Skipper	Gwibiwr Llwyd	1995	2018	79
			Emrallt Barf yr Hen			
Butterflies and Moths	<i>Hemistola chrysoprasaria</i>	Small Emerald	Wr	1973	1973	2
			Gweirlöyn y			
Butterflies and Moths	<i>Lasiommata megera</i>	Wall	Cloddiau	1995	2005	5
Butterflies and Moths	<i>Pyrgus malvae</i>	Grizzled Skipper	Gwibiwr Brith	1993	2018	101
Butterflies and Moths	<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar	Rhesen Lydan Dywyll	1999	2010	8
Butterflies and Moths	<i>Tyria jacobaeae</i>	Cinnabar	Teigr y Benfelen	1999	2016	11
Butterflies and Moths	<i>Watsonalla binaria</i>	Oak Hook-tip	Bachadain y Deri	1972	1973	2
Mammals	<i>Erinaceus europaeus</i>	Hedgehog	Draenog	2017	2017	1
Mammals	<i>Lutra lutra</i>	Otter	Dyfrgi	2016	2018	6
Mammals	<i>Meles meles</i>	Badger	Mochyn Daear	2003	2018	9
Mammals	<i>Mustela erminea</i>	Stoat	Carlwm	2016	2016	1
Mammals	<i>Myotis</i>	Myotis Bat Species		2016	2016	2
Mammals	<i>Myotis mystacinus</i>	Whiskered Bat	Ystlum Barfog	1998	1999	2
Mammals	<i>Nyctalus noctula</i>	Noctule Bat	Ystlum Mawr	2016	2016	5
		Pipistrellus Bat				
Mammals	<i>Pipistrellus</i>	Species		2003	2003	1
			Ystlum Lleiaf			
Mammals	<i>Pipistrellus pipistrellus</i>	Common Pipistrelle	Cyffredin	2016	2016	5
			Ystlum Lleiaf			
Mammals	<i>Pipistrellus pygmaeus</i>	Soprano Pipistrelle	Uchelsain	2016	2016	2
Other Invertebrates	<i>Acanthiophilus helianthi</i>			2000	2000	1

Other Invertebrates	Bembidion (Bembidion) quadripustulatum	Scarce Four-dot Pin-palp		2008	2008	2
Other Invertebrates	Bembidion (Notaphus) obliquum			2008	2008	1
Other Invertebrates	Diplapion stolidum			2000	2000	1
Other Invertebrates	Donacia thalassina			2012	2012	1
Other Invertebrates	Grypus equiseti	Horsetail Weevil		2008	2008	1
Other Invertebrates	Neophytobius quadrinodosus			2000	2000	1
Other Invertebrates	Oxycera morrisii	White-barred Soldier		1999	1999	2
Other Invertebrates	Phaonia atriceps			1999	1999	1
Other Invertebrates	Pseudorchestes pratensis			2000	2000	1
Plants	Azolla filiculoides	Water Fern	Rhedynen y Dwr	2013	2013	2
Plants	Calamagrostis epigejos	Wood Small-reed	Corsen Fach y Coed	2011	2011	2
Plants	Cichorium intybus	Chicory	Ysgello	2015	2015	1
Plants	Crepis biennis	Rough Hawk's-beard	Gwalchlys Garw	1998	2014	8
Plants	Crocasmia pottsii x aurea = C. x crocosmiiflora	Montbretia	Crib-y-Ceiliog	2014	2014	1
Plants	Dactylorhiza fuchsii x praetermissa = D. x grandis	Marsh-Orchid		2011	2011	1
Plants	Dactylorhiza praetermissa	Southern Marsh-orchid	Tegeirian-y-Gors Deheuol	2016	2016	1
Plants	Fallopia japonica	Japanese Knotweed	Clymog Japan	2011	2015	2
Plants	Genista tinctoria	Dyer's Greenweed	Melynog y Waun	2007	2007	1
Plants	Heracleum mantegazzianum	Giant Hogweed	Efwr Enfawr	2011	2011	1
Plants	Impatiens glandulifera	Himalayan Balsam	Jac y Neidiwr	2011	2016	3
Plants	Lathyrus nissolia	Grass Vetchling	Ytbysen Feinddail	2009	2016	5
Plants	Medicago arabica	Spotted Medick	Maglys Brith	2016	2016	1
Plants	Mentha arvensis	Corn Mint	Mintys yr Âr	2016	2016	1
Plants	Mentha pulegium	Pennyroyal	Brymlys	2014	2014	1
Plants	Ononis spinosa	Spiny Restharrow	Tagaradr Pigog	2013	2016	4

Plants	Ophioglossum vulgatum	Adder's-tongue	Tafod y Neidr	2010	2010	1
Plants	Petasites hybridus	Butterbur	Alan Mawr	2011	2011	2
Plants	Polemonium caeruleum	Jacob's-ladder	Ysgol Jacob	2011	2011	1
Plants	Rorippa amphibia	Great Yellow-cress	Berwr Melyn Mawr	2016	2016	1
	Salix viminalis x cinerea = S. x					
Plants	holosericea	Silky-leaved Osier		2011	2011	2
Plants	Sedum album	White Stonecrop	Briweg Wen	2016	2016	2
Plants	Silaum silaus	Pepper-saxifrage	Ffenigl yr Hwch	2009	2014	6
Plants	Sinapis arvensis	Charlock	Mwstard Gwyllt	2011	2014	2
Reptiles and Amphibians	Anguis fragilis	Slow-worm	Neidr Ddefaid	1999	2009	3
Reptiles and Amphibians	Bufo bufo	Common Toad	Llyffant Dafadennog	2005	2018	13
Reptiles and Amphibians	Lissotriton helveticus	Palmate Newt	Madfall Ddwr Balfog	2018	2018	1
			Madfall Ddwr			
Reptiles and Amphibians	Lissotriton vulgaris	Smooth Newt	Gyffredin	1992	2018	102
Reptiles and Amphibians	Rana temporaria	Common Frog	Llyffant Melyn	2005	2018	13
Reptiles and Amphibians	Triturus cristatus	Great Crested Newt	Madfall Ddwr Gribog	1992	2018	378
Reptiles and Amphibians	Vipera berus	Adder	Gwiber	1999	2009	3